

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
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 655 FNL / 975 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106557 / LONG: -104.18961 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107436 / LONG: -104.190675 (TVD: 8806 feet, MD: 8885 feet)

PPP: SESE / 1319 FSL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.09744 / LONG: -104.190788 (TVD: 8973 feet, MD: 12516 feet)

PPP: NESE / 2639 FSL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.086398 / LONG: -104.190912 (TVD: 8976 feet, MD: 16476 feet)

PPP: NENE / 1 FNL / 1300 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079004 / LONG: -104.190995 (TVD: 8977 feet, MD: 19116 feet)

BHL: SESE / 330 FSL / 1300 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064721 / LONG: -104.191156 (TVD: 8981 feet, MD: 24298 feet)

CONFIDENTIAL

SEC28-T25S-R27E_FLAMING SNAIL FED COM_Eddy__CONOCOPHILLIPS COMPANY_45670_JS

FLAMING SNAIL FED COM

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	FLAMING SNAIL FED COM 703H
SURFACE HOLE FOOTAGE:	655'N & 975'E
BOTTOM HOLE FOOTAGE	200'S & 544'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.

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 30-015-54152	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 703H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3129.3'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	25-S	27-E		655 FNL	975 FEL	32.106557°N	104.189610°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	544 FEL	32.064645°N	104.188716°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		655 FNL	975 FEL	32.106557°N	104.189610°W	EDDY

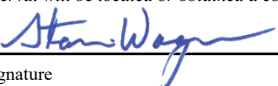
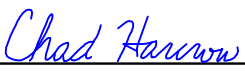
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	25-S	27-E		330 FNL	544 FEL	32.107470°N	104.188234°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	544 FEL	32.065002°N	104.188712°W	EDDY

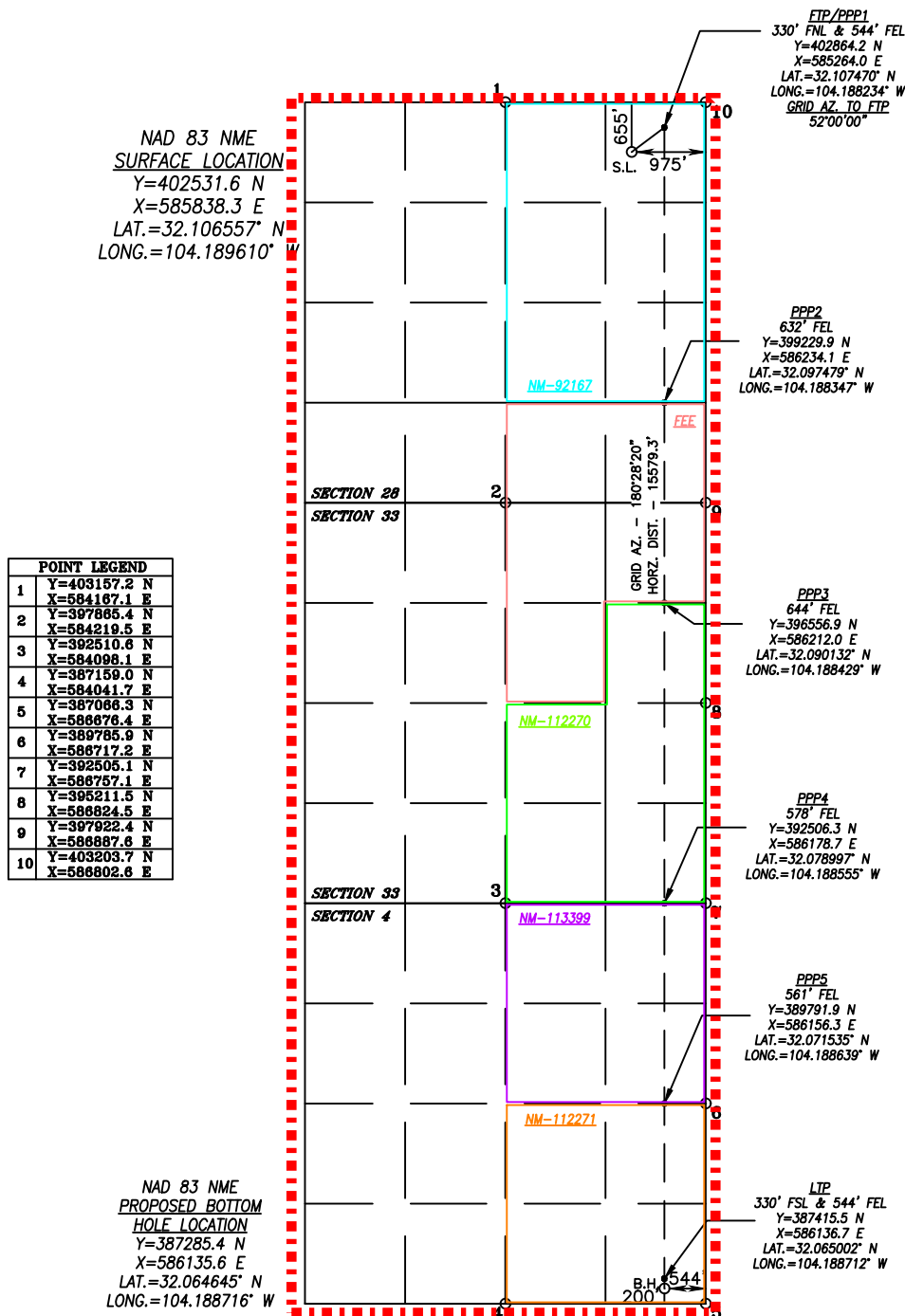
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
 Signature Date Stan Wagner 12/03/2024		 Signature and Seal of Professional Surveyor Chad Hargrow 11/1/24	
Printed Name Stan Wagner		Certificate Number 17777	Date of Survey MAY 18, 2022
Email Address		W.O.#24-1036	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.

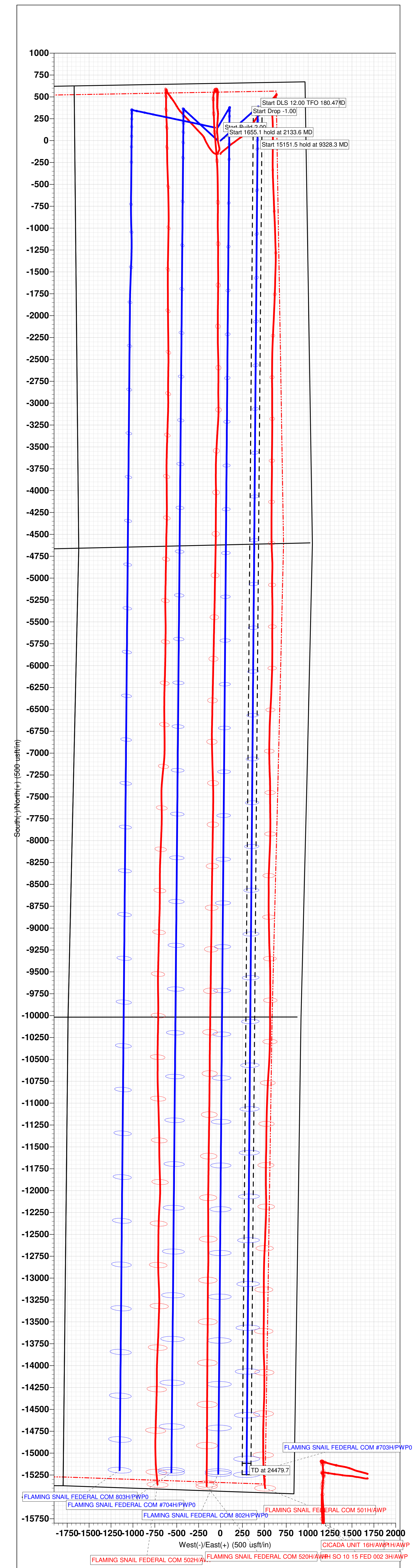
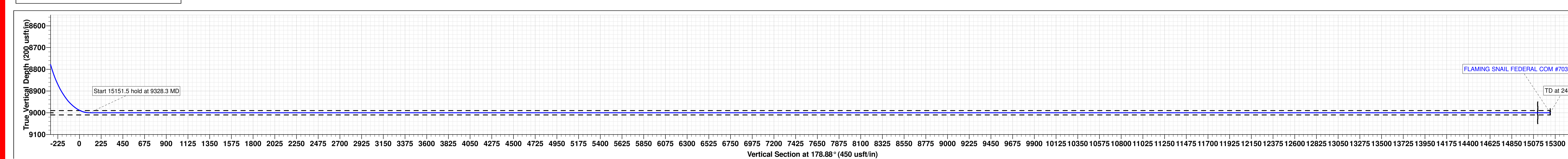
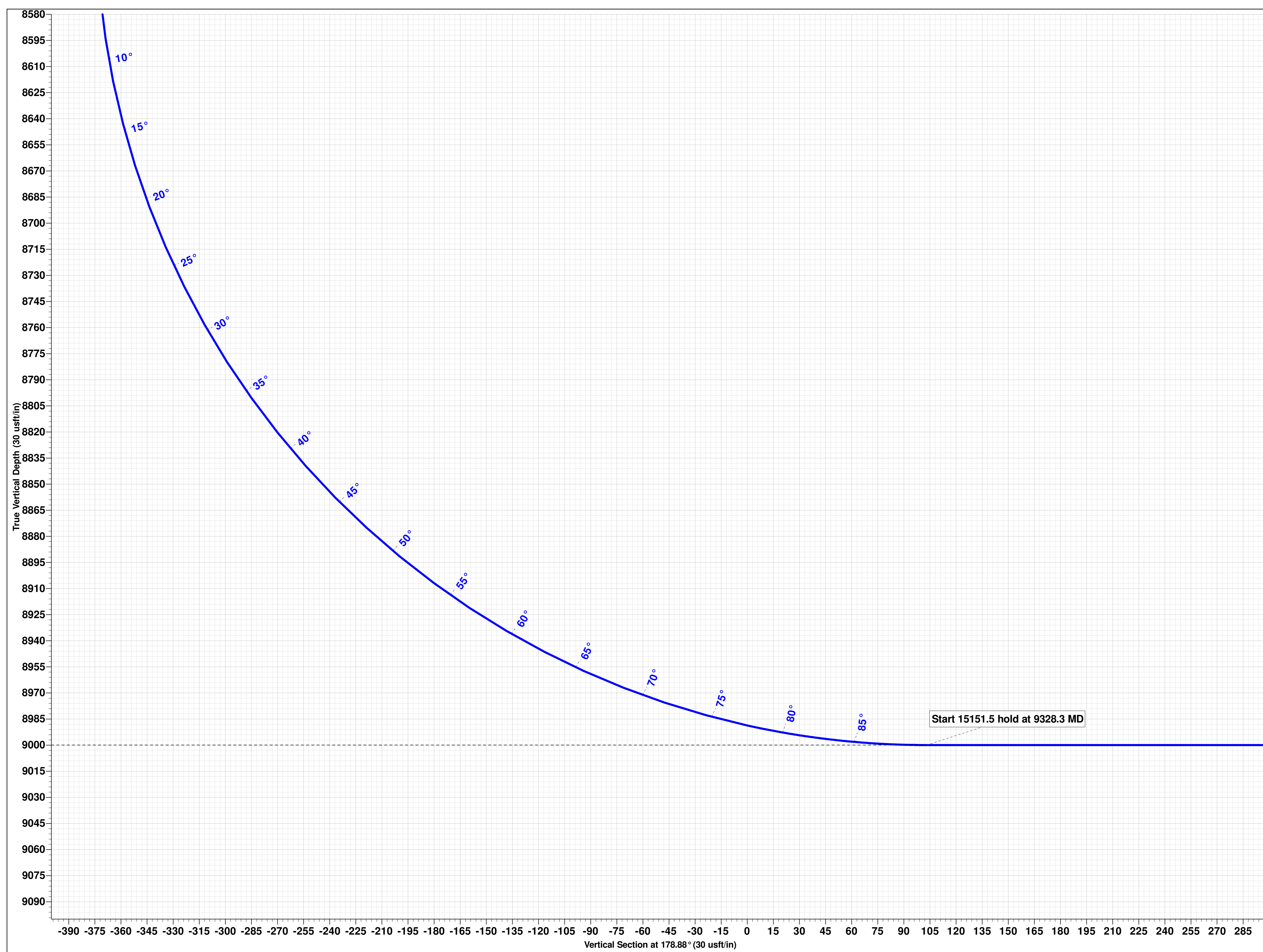
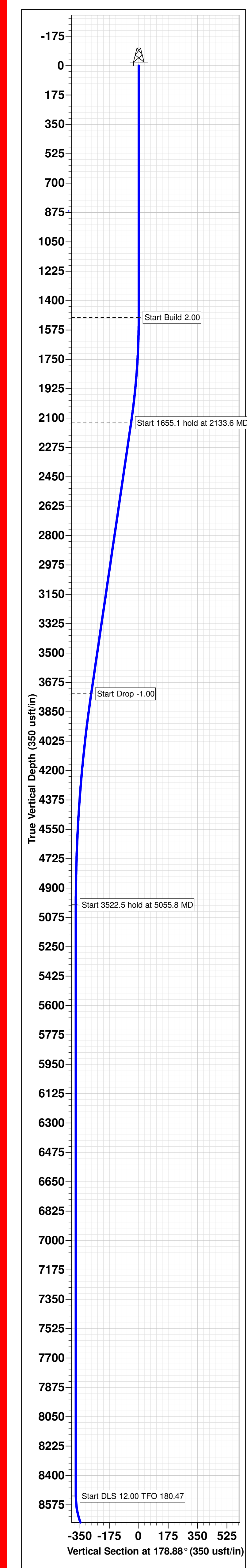
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





Project: ATLAS PROSPECT (DBW)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM 703H
Wellbore: OWB
Design: PWP0

SECTION DETAILS								
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec
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
2133.5	12.67	48.05	2128.4	46.0	51.9	0.00	48.05	-44.5
3788.7	12.67	48.05	3743.2	289.3	321.9	0.00	0.00	-283.0
5055.8	0.00	0.00	5000.0	382.6	425.7	1.00	180.00	-374.2
8578.3	0.00	0.00	8522.5	382.6	425.7	0.00	0.00	-374.2
9328.3	90.00	180.47	9000.0	-94.8	421.8	12.00	180.47	103.0
24479.7	90.00	180.47	9000.0	-15245.8	297.1	0.00	0.00	15248.7



ConocoPhillips Company - Flaming Snail Federal Com 703H

1. Geologic Formations

TVD of target	9,000' EOL	Pilot hole depth	NA
MD at TD:	24,479'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	40	Water	
Top of Salt	521	Salt	
Base of Salt	1942	Salt	
Lamar	2174	Salt Water	
Bell Canyon	2222	Salt Water	
Cherry Canyon	3026	Oil/Gas	
Brushy Canyon	4133	Oil/Gas	
Bone Spring	5716	Oil/Gas	
1st Bone Spring Sand	6654	Oil/Gas	
2nd Bone Spring Sand	7159	Oil/Gas	
3rd Bone Spring Sand	8483	Oil/Gas	
Wolfcamp	8815	Oil/Gas	
Wolfcamp A	8902	Target	
Wolfcamp B		Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	380	10.75"	45.5	J55	BTC	12.02	15.44	41.35	46.04
9.875"	0	5500	7.625"	29.7	L80-ICY	BTC	4.48	2.04	4.44	4.49
8.750"	5500	8300	7.625"	29.7	P110-ICY	W513	5.72	2.04	4.33	2.60
6.75"	0	8100	5.5"	23	P110-CY	BTC	3.73	2.68	3.91	3.91
6.75"	8100	24,479	5.5"	23	P110-CY	W441	3.73	2.68	3.52	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	380	13.375"	54.5	J55	BTC	6.50	11.77	41.19	43.89
12.25"	0	2080	9.625"	40	L80-IC	BTC	4.07	1.64	11.01	11.38
8.75"	1880	8300	7.625"	29.7	P110-ICY	W513	8.47	2.04	4.33	2.60
6.75"	0	8100	5.5"	23	P110-CY	BTC	3.73	2.68	3.91	3.91
6.75"	8100	24,479	5.5"	23	P110-CY	W441	3.73	2.68	3.52	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

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

December 3, 2024

1

ConocoPhillips Company - Flaming Snail Federal Com 703H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	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 703H

3. Cementing Program

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

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

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

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

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

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	210	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	410	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1230	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

ConocoPhillips Company - Flaming Snail Federal Com 703H

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 703H

5. Mud Program

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

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

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

5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Flaming Snail Federal Com 703H**7. Drilling Conditions**

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

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM 703H

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 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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 703H			
Well Position	+N/-S	0.0 usft	Northing:	402,474.20 usft
	+E/-W	0.0 usft	Easting:	544,654.80 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft
Grid Convergence:		0.08 °	Ground Level:	3,129.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.45827577

Design	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	178.88	

Plan Survey Tool Program	Date	11/11/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1 0.0	8,585.2	PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1	rev.5	
2 8,585.2	24,479.7	PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1	rev.5	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,133.6	12.67	48.05	2,128.4	46.6	51.9	2.00	2.00	0.00	48.05	
3,788.7	12.67	48.05	3,743.2	289.3	321.9	0.00	0.00	0.00	0.00	
5,055.8	0.00	0.00	5,000.0	382.6	425.7	1.00	-1.00	0.00	180.00	
8,578.3	0.00	0.00	8,522.5	382.6	425.7	0.00	0.00	0.00	0.00	
9,328.3	90.00	180.47	9,000.0	-94.8	421.8	12.00	12.00	-23.94	180.47	
24,479.7	90.00	180.47	9,000.0	-15,245.8	297.1	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 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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	48.05	1,600.0	1.2	1.3	-1.1	2.00	2.00	0.00
1,700.0	4.00	48.05	1,699.8	4.7	5.2	-4.6	2.00	2.00	0.00
1,800.0	6.00	48.05	1,799.5	10.5	11.7	-10.3	2.00	2.00	0.00
1,900.0	8.00	48.05	1,898.7	18.6	20.7	-18.2	2.00	2.00	0.00
2,000.0	10.00	48.05	1,997.5	29.1	32.4	-28.5	2.00	2.00	0.00
2,100.0	12.00	48.05	2,095.6	41.8	46.6	-40.9	2.00	2.00	0.00
2,133.6	12.67	48.05	2,128.4	46.6	51.9	-45.6	2.00	2.00	0.00
Start 1655.1 hold at 2133.6 MD									
2,200.0	12.67	48.05	2,193.2	56.4	62.7	-55.1	0.00	0.00	0.00
2,300.0	12.67	48.05	2,290.8	71.0	79.0	-69.5	0.00	0.00	0.00
2,400.0	12.67	48.05	2,388.4	85.7	95.4	-83.8	0.00	0.00	0.00
2,500.0	12.67	48.05	2,485.9	100.4	111.7	-98.2	0.00	0.00	0.00
2,600.0	12.67	48.05	2,583.5	115.0	128.0	-112.5	0.00	0.00	0.00
2,700.0	12.67	48.05	2,681.1	129.7	144.3	-126.9	0.00	0.00	0.00
2,800.0	12.67	48.05	2,778.6	144.4	160.6	-141.2	0.00	0.00	0.00
2,900.0	12.67	48.05	2,876.2	159.0	176.9	-155.5	0.00	0.00	0.00
3,000.0	12.67	48.05	2,973.7	173.7	193.2	-169.9	0.00	0.00	0.00
3,100.0	12.67	48.05	3,071.3	188.3	209.6	-184.2	0.00	0.00	0.00
3,200.0	12.67	48.05	3,168.9	203.0	225.9	-198.6	0.00	0.00	0.00
3,300.0	12.67	48.05	3,266.4	217.7	242.2	-212.9	0.00	0.00	0.00
3,400.0	12.67	48.05	3,364.0	232.3	258.5	-227.3	0.00	0.00	0.00
3,500.0	12.67	48.05	3,461.6	247.0	274.8	-241.6	0.00	0.00	0.00
3,600.0	12.67	48.05	3,559.1	261.7	291.1	-255.9	0.00	0.00	0.00
3,700.0	12.67	48.05	3,656.7	276.3	307.5	-270.3	0.00	0.00	0.00
3,788.7	12.67	48.05	3,743.2	289.3	321.9	-283.0	0.00	0.00	0.00
Start Drop -1.00									
3,800.0	12.56	48.05	3,754.3	291.0	323.8	-284.6	1.00	-1.00	0.00
3,900.0	11.56	48.05	3,852.1	304.9	339.3	-298.3	1.00	-1.00	0.00
4,000.0	10.56	48.05	3,950.2	317.8	353.6	-310.8	1.00	-1.00	0.00
4,100.0	9.56	48.05	4,048.7	329.4	366.5	-322.2	1.00	-1.00	0.00
4,200.0	8.56	48.05	4,147.4	340.0	378.3	-332.5	1.00	-1.00	0.00
4,300.0	7.56	48.05	4,246.4	349.3	388.7	-341.7	1.00	-1.00	0.00
4,400.0	6.56	48.05	4,345.7	357.5	397.8	-349.7	1.00	-1.00	0.00
4,500.0	5.56	48.05	4,445.1	364.6	405.7	-356.6	1.00	-1.00	0.00
4,600.0	4.56	48.05	4,544.7	370.5	412.2	-362.4	1.00	-1.00	0.00
4,700.0	3.56	48.05	4,644.5	375.2	417.5	-367.0	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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)
4,800.0	2.56	48.05	4,744.3	378.8	421.5	-370.5	1.00	-1.00	0.00
4,900.0	1.56	48.05	4,844.3	381.2	424.1	-372.8	1.00	-1.00	0.00
5,000.0	0.56	48.05	4,944.2	382.4	425.5	-374.1	1.00	-1.00	0.00
5,055.8	0.00	0.00	5,000.0	382.6	425.7	-374.2	1.00	-1.00	0.00
Start 3522.5 hold at 5055.8 MD									
5,100.0	0.00	0.00	5,044.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,200.0	0.00	0.00	5,144.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,244.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,400.0	0.00	0.00	5,344.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,444.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,544.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,644.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,744.2	382.6	425.7	-374.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,844.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,944.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,044.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,144.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,244.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,344.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,444.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,544.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,644.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,744.2	382.6	425.7	-374.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,844.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,944.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,044.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,144.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,244.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,344.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,444.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,544.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,644.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,744.2	382.6	425.7	-374.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,844.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,944.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,044.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,144.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,244.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,344.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,444.2	382.6	425.7	-374.2	0.00	0.00	0.00
8,578.3	0.00	0.00	8,522.5	382.6	425.7	-374.2	0.00	0.00	0.00
Start DLS 12.00 TFO 180.47									
8,600.0	2.61	180.47	8,544.2	382.1	425.7	-373.7	12.00	12.00	0.00
8,625.0	5.61	180.47	8,569.2	380.3	425.7	-371.9	12.00	12.00	0.00
8,650.0	8.61	180.47	8,594.0	377.2	425.7	-368.9	12.00	12.00	0.00
8,675.0	11.61	180.47	8,618.6	372.8	425.6	-364.5	12.00	12.00	0.00
8,700.0	14.61	180.47	8,642.9	367.2	425.6	-358.8	12.00	12.00	0.00
8,725.0	17.61	180.47	8,666.9	360.2	425.5	-351.9	12.00	12.00	0.00
8,750.0	20.61	180.47	8,690.6	352.0	425.4	-343.7	12.00	12.00	0.00
8,775.0	23.61	180.47	8,713.7	342.6	425.4	-334.3	12.00	12.00	0.00
8,800.0	26.61	180.47	8,736.4	332.0	425.3	-323.7	12.00	12.00	0.00
8,825.0	29.61	180.47	8,758.4	320.3	425.2	-311.9	12.00	12.00	0.00
8,850.0	32.61	180.47	8,779.8	307.3	425.1	-299.0	12.00	12.00	0.00
8,875.0	35.61	180.47	8,800.5	293.3	425.0	-285.0	12.00	12.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.0	38.61	180.47	8,820.4	278.2	424.8	-269.9	12.00	12.00	0.00
8,925.0	41.61	180.47	8,839.6	262.1	424.7	-253.8	12.00	12.00	0.00
8,950.0	44.61	180.47	8,857.8	245.1	424.6	-236.7	12.00	12.00	0.00
8,975.0	47.61	180.47	8,875.1	227.0	424.4	-218.7	12.00	12.00	0.00
9,000.0	50.61	180.47	8,891.5	208.1	424.3	-199.8	12.00	12.00	0.00
9,025.0	53.61	180.47	8,906.8	188.4	424.1	-180.1	12.00	12.00	0.00
9,050.0	56.61	180.47	8,921.1	167.9	423.9	-159.6	12.00	12.00	0.00
9,075.0	59.61	180.47	8,934.4	146.7	423.8	-138.4	12.00	12.00	0.00
9,100.0	62.61	180.47	8,946.4	124.8	423.6	-116.5	12.00	12.00	0.00
9,125.0	65.61	180.47	8,957.3	102.3	423.4	-94.1	12.00	12.00	0.00
9,150.0	68.61	180.47	8,967.1	79.3	423.2	-71.0	12.00	12.00	0.00
9,175.0	71.61	180.47	8,975.6	55.8	423.0	-47.5	12.00	12.00	0.00
9,200.0	74.61	180.47	8,982.8	31.9	422.8	-23.6	12.00	12.00	0.00
9,225.0	77.61	180.47	8,988.8	7.6	422.6	0.6	12.00	12.00	0.00
9,250.0	80.61	180.47	8,993.6	-16.9	422.4	25.2	12.00	12.00	0.00
9,275.0	83.61	180.47	8,997.0	-41.7	422.2	49.9	12.00	12.00	0.00
9,300.0	86.61	180.47	8,999.1	-66.6	422.0	74.8	12.00	12.00	0.00
9,325.0	89.61	180.47	9,000.0	-91.6	421.8	99.8	12.00	12.00	0.00
9,328.3	90.00	180.47	9,000.0	-94.8	421.8	103.0	12.00	12.00	0.00
Start 15151.5 hold at 9328.3 MD									
9,400.0	90.00	180.47	9,000.0	-166.6	421.2	174.8	0.00	0.00	0.00
9,500.0	90.00	180.47	9,000.0	-266.6	420.4	274.7	0.00	0.00	0.00
9,600.0	90.00	180.47	9,000.0	-366.6	419.5	374.7	0.00	0.00	0.00
9,700.0	90.00	180.47	9,000.0	-466.6	418.7	474.6	0.00	0.00	0.00
9,800.0	90.00	180.47	9,000.0	-566.6	417.9	574.6	0.00	0.00	0.00
9,900.0	90.00	180.47	9,000.0	-666.6	417.1	674.6	0.00	0.00	0.00
10,000.0	90.00	180.47	9,000.0	-766.6	416.2	774.5	0.00	0.00	0.00
10,100.0	90.00	180.47	9,000.0	-866.6	415.4	874.5	0.00	0.00	0.00
10,200.0	90.00	180.47	9,000.0	-966.6	414.6	974.4	0.00	0.00	0.00
10,300.0	90.00	180.47	9,000.0	-1,066.6	413.8	1,074.4	0.00	0.00	0.00
10,400.0	90.00	180.47	9,000.0	-1,166.5	413.0	1,174.4	0.00	0.00	0.00
10,500.0	90.00	180.47	9,000.0	-1,266.5	412.1	1,274.3	0.00	0.00	0.00
10,600.0	90.00	180.47	9,000.0	-1,366.5	411.3	1,374.3	0.00	0.00	0.00
10,700.0	90.00	180.47	9,000.0	-1,466.5	410.5	1,474.3	0.00	0.00	0.00
10,800.0	90.00	180.47	9,000.0	-1,566.5	409.7	1,574.2	0.00	0.00	0.00
10,900.0	90.00	180.47	9,000.0	-1,666.5	408.8	1,674.2	0.00	0.00	0.00
11,000.0	90.00	180.47	9,000.0	-1,766.5	408.0	1,774.1	0.00	0.00	0.00
11,100.0	90.00	180.47	9,000.0	-1,866.5	407.2	1,874.1	0.00	0.00	0.00
11,200.0	90.00	180.47	9,000.0	-1,966.5	406.4	1,974.1	0.00	0.00	0.00
11,300.0	90.00	180.47	9,000.0	-2,066.5	405.5	2,074.0	0.00	0.00	0.00
11,400.0	90.00	180.47	9,000.0	-2,166.5	404.7	2,174.0	0.00	0.00	0.00
11,500.0	90.00	180.47	9,000.0	-2,266.5	403.9	2,273.9	0.00	0.00	0.00
11,600.0	90.00	180.47	9,000.0	-2,366.5	403.1	2,373.9	0.00	0.00	0.00
11,700.0	90.00	180.47	9,000.0	-2,466.5	402.3	2,473.9	0.00	0.00	0.00
11,800.0	90.00	180.47	9,000.0	-2,566.5	401.4	2,573.8	0.00	0.00	0.00
11,900.0	90.00	180.47	9,000.0	-2,666.5	400.6	2,673.8	0.00	0.00	0.00
12,000.0	90.00	180.47	9,000.0	-2,766.5	399.8	2,773.8	0.00	0.00	0.00
12,100.0	90.00	180.47	9,000.0	-2,866.5	399.0	2,873.7	0.00	0.00	0.00
12,200.0	90.00	180.47	9,000.0	-2,966.5	398.1	2,973.7	0.00	0.00	0.00
12,300.0	90.00	180.47	9,000.0	-3,066.5	397.3	3,073.6	0.00	0.00	0.00
12,400.0	90.00	180.47	9,000.0	-3,166.5	396.5	3,173.6	0.00	0.00	0.00
12,500.0	90.00	180.47	9,000.0	-3,266.5	395.7	3,273.6	0.00	0.00	0.00
12,600.0	90.00	180.47	9,000.0	-3,366.5	394.9	3,373.5	0.00	0.00	0.00
12,700.0	90.00	180.47	9,000.0	-3,466.5	394.0	3,473.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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)
12,800.0	90.00	180.47	9,000.0	-3,566.5	393.2	3,573.5	0.00	0.00	0.00
12,900.0	90.00	180.47	9,000.0	-3,666.5	392.4	3,673.4	0.00	0.00	0.00
13,000.0	90.00	180.47	9,000.0	-3,766.5	391.6	3,773.4	0.00	0.00	0.00
13,100.0	90.00	180.47	9,000.0	-3,866.5	390.7	3,873.3	0.00	0.00	0.00
13,200.0	90.00	180.47	9,000.0	-3,966.5	389.9	3,973.3	0.00	0.00	0.00
13,300.0	90.00	180.47	9,000.0	-4,066.4	389.1	4,073.3	0.00	0.00	0.00
13,400.0	90.00	180.47	9,000.0	-4,166.4	388.3	4,173.2	0.00	0.00	0.00
13,500.0	90.00	180.47	9,000.0	-4,266.4	387.4	4,273.2	0.00	0.00	0.00
13,600.0	90.00	180.47	9,000.0	-4,366.4	386.6	4,373.1	0.00	0.00	0.00
13,700.0	90.00	180.47	9,000.0	-4,466.4	385.8	4,473.1	0.00	0.00	0.00
13,800.0	90.00	180.47	9,000.0	-4,566.4	385.0	4,573.1	0.00	0.00	0.00
13,900.0	90.00	180.47	9,000.0	-4,666.4	384.2	4,673.0	0.00	0.00	0.00
14,000.0	90.00	180.47	9,000.0	-4,766.4	383.3	4,773.0	0.00	0.00	0.00
14,100.0	90.00	180.47	9,000.0	-4,866.4	382.5	4,873.0	0.00	0.00	0.00
14,200.0	90.00	180.47	9,000.0	-4,966.4	381.7	4,972.9	0.00	0.00	0.00
14,300.0	90.00	180.47	9,000.0	-5,066.4	380.9	5,072.9	0.00	0.00	0.00
14,400.0	90.00	180.47	9,000.0	-5,166.4	380.0	5,172.8	0.00	0.00	0.00
14,500.0	90.00	180.47	9,000.0	-5,266.4	379.2	5,272.8	0.00	0.00	0.00
14,600.0	90.00	180.47	9,000.0	-5,366.4	378.4	5,372.8	0.00	0.00	0.00
14,700.0	90.00	180.47	9,000.0	-5,466.4	377.6	5,472.7	0.00	0.00	0.00
14,800.0	90.00	180.47	9,000.0	-5,566.4	376.7	5,572.7	0.00	0.00	0.00
14,900.0	90.00	180.47	9,000.0	-5,666.4	375.9	5,672.6	0.00	0.00	0.00
15,000.0	90.00	180.47	9,000.0	-5,766.4	375.1	5,772.6	0.00	0.00	0.00
15,100.0	90.00	180.47	9,000.0	-5,866.4	374.3	5,872.6	0.00	0.00	0.00
15,200.0	90.00	180.47	9,000.0	-5,966.4	373.5	5,972.5	0.00	0.00	0.00
15,300.0	90.00	180.47	9,000.0	-6,066.4	372.6	6,072.5	0.00	0.00	0.00
15,400.0	90.00	180.47	9,000.0	-6,166.4	371.8	6,172.5	0.00	0.00	0.00
15,500.0	90.00	180.47	9,000.0	-6,266.4	371.0	6,272.4	0.00	0.00	0.00
15,600.0	90.00	180.47	9,000.0	-6,366.4	370.2	6,372.4	0.00	0.00	0.00
15,700.0	90.00	180.47	9,000.0	-6,466.4	369.3	6,472.3	0.00	0.00	0.00
15,800.0	90.00	180.47	9,000.0	-6,566.4	368.5	6,572.3	0.00	0.00	0.00
15,900.0	90.00	180.47	9,000.0	-6,666.4	367.7	6,672.3	0.00	0.00	0.00
16,000.0	90.00	180.47	9,000.0	-6,766.4	366.9	6,772.2	0.00	0.00	0.00
16,100.0	90.00	180.47	9,000.0	-6,866.4	366.1	6,872.2	0.00	0.00	0.00
16,200.0	90.00	180.47	9,000.0	-6,966.4	365.2	6,972.1	0.00	0.00	0.00
16,300.0	90.00	180.47	9,000.0	-7,066.3	364.4	7,072.1	0.00	0.00	0.00
16,400.0	90.00	180.47	9,000.0	-7,166.3	363.6	7,172.1	0.00	0.00	0.00
16,500.0	90.00	180.47	9,000.0	-7,266.3	362.8	7,272.0	0.00	0.00	0.00
16,600.0	90.00	180.47	9,000.0	-7,366.3	361.9	7,372.0	0.00	0.00	0.00
16,700.0	90.00	180.47	9,000.0	-7,466.3	361.1	7,472.0	0.00	0.00	0.00
16,800.0	90.00	180.47	9,000.0	-7,566.3	360.3	7,571.9	0.00	0.00	0.00
16,900.0	90.00	180.47	9,000.0	-7,666.3	359.5	7,671.9	0.00	0.00	0.00
17,000.0	90.00	180.47	9,000.0	-7,766.3	358.6	7,771.8	0.00	0.00	0.00
17,100.0	90.00	180.47	9,000.0	-7,866.3	357.8	7,871.8	0.00	0.00	0.00
17,200.0	90.00	180.47	9,000.0	-7,966.3	357.0	7,971.8	0.00	0.00	0.00
17,300.0	90.00	180.47	9,000.0	-8,066.3	356.2	8,071.7	0.00	0.00	0.00
17,400.0	90.00	180.47	9,000.0	-8,166.3	355.4	8,171.7	0.00	0.00	0.00
17,500.0	90.00	180.47	9,000.0	-8,266.3	354.5	8,271.6	0.00	0.00	0.00
17,600.0	90.00	180.47	9,000.0	-8,366.3	353.7	8,371.6	0.00	0.00	0.00
17,700.0	90.00	180.47	9,000.0	-8,466.3	352.9	8,471.6	0.00	0.00	0.00
17,800.0	90.00	180.47	9,000.0	-8,566.3	352.1	8,571.5	0.00	0.00	0.00
17,900.0	90.00	180.47	9,000.0	-8,666.3	351.2	8,671.5	0.00	0.00	0.00
18,000.0	90.00	180.47	9,000.0	-8,766.3	350.4	8,771.5	0.00	0.00	0.00
18,100.0	90.00	180.47	9,000.0	-8,866.3	349.6	8,871.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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)
18,200.0	90.00	180.47	9,000.0	-8,966.3	348.8	8,971.4	0.00	0.00	0.00
18,300.0	90.00	180.47	9,000.0	-9,066.3	347.9	9,071.3	0.00	0.00	0.00
18,400.0	90.00	180.47	9,000.0	-9,166.3	347.1	9,171.3	0.00	0.00	0.00
18,500.0	90.00	180.47	9,000.0	-9,266.3	346.3	9,271.3	0.00	0.00	0.00
18,600.0	90.00	180.47	9,000.0	-9,366.3	345.5	9,371.2	0.00	0.00	0.00
18,700.0	90.00	180.47	9,000.0	-9,466.3	344.7	9,471.2	0.00	0.00	0.00
18,800.0	90.00	180.47	9,000.0	-9,566.3	343.8	9,571.1	0.00	0.00	0.00
18,900.0	90.00	180.47	9,000.0	-9,666.3	343.0	9,671.1	0.00	0.00	0.00
19,000.0	90.00	180.47	9,000.0	-9,766.3	342.2	9,771.1	0.00	0.00	0.00
19,100.0	90.00	180.47	9,000.0	-9,866.3	341.4	9,871.0	0.00	0.00	0.00
19,200.0	90.00	180.47	9,000.0	-9,966.2	340.5	9,971.0	0.00	0.00	0.00
19,300.0	90.00	180.47	9,000.0	-10,066.2	339.7	10,071.0	0.00	0.00	0.00
19,400.0	90.00	180.47	9,000.0	-10,166.2	338.9	10,170.9	0.00	0.00	0.00
19,500.0	90.00	180.47	9,000.0	-10,266.2	338.1	10,270.9	0.00	0.00	0.00
19,600.0	90.00	180.47	9,000.0	-10,366.2	337.3	10,370.8	0.00	0.00	0.00
19,700.0	90.00	180.47	9,000.0	-10,466.2	336.4	10,470.8	0.00	0.00	0.00
19,800.0	90.00	180.47	9,000.0	-10,566.2	335.6	10,570.8	0.00	0.00	0.00
19,900.0	90.00	180.47	9,000.0	-10,666.2	334.8	10,670.7	0.00	0.00	0.00
20,000.0	90.00	180.47	9,000.0	-10,766.2	334.0	10,770.7	0.00	0.00	0.00
20,100.0	90.00	180.47	9,000.0	-10,866.2	333.1	10,870.6	0.00	0.00	0.00
20,200.0	90.00	180.47	9,000.0	-10,966.2	332.3	10,970.6	0.00	0.00	0.00
20,300.0	90.00	180.47	9,000.0	-11,066.2	331.5	11,070.6	0.00	0.00	0.00
20,400.0	90.00	180.47	9,000.0	-11,166.2	330.7	11,170.5	0.00	0.00	0.00
20,500.0	90.00	180.47	9,000.0	-11,266.2	329.8	11,270.5	0.00	0.00	0.00
20,600.0	90.00	180.47	9,000.0	-11,366.2	329.0	11,370.5	0.00	0.00	0.00
20,700.0	90.00	180.47	9,000.0	-11,466.2	328.2	11,470.4	0.00	0.00	0.00
20,800.0	90.00	180.47	9,000.0	-11,566.2	327.4	11,570.4	0.00	0.00	0.00
20,900.0	90.00	180.47	9,000.0	-11,666.2	326.6	11,670.3	0.00	0.00	0.00
21,000.0	90.00	180.47	9,000.0	-11,766.2	325.7	11,770.3	0.00	0.00	0.00
21,100.0	90.00	180.47	9,000.0	-11,866.2	324.9	11,870.3	0.00	0.00	0.00
21,200.0	90.00	180.47	9,000.0	-11,966.2	324.1	11,970.2	0.00	0.00	0.00
21,300.0	90.00	180.47	9,000.0	-12,066.2	323.3	12,070.2	0.00	0.00	0.00
21,400.0	90.00	180.47	9,000.0	-12,166.2	322.4	12,170.1	0.00	0.00	0.00
21,500.0	90.00	180.47	9,000.0	-12,266.2	321.6	12,270.1	0.00	0.00	0.00
21,600.0	90.00	180.47	9,000.0	-12,366.2	320.8	12,370.1	0.00	0.00	0.00
21,700.0	90.00	180.47	9,000.0	-12,466.2	320.0	12,470.0	0.00	0.00	0.00
21,800.0	90.00	180.47	9,000.0	-12,566.2	319.1	12,570.0	0.00	0.00	0.00
21,900.0	90.00	180.47	9,000.0	-12,666.2	318.3	12,670.0	0.00	0.00	0.00
22,000.0	90.00	180.47	9,000.0	-12,766.2	317.5	12,769.9	0.00	0.00	0.00
22,100.0	90.00	180.47	9,000.0	-12,866.2	316.7	12,869.9	0.00	0.00	0.00
22,200.0	90.00	180.47	9,000.0	-12,966.1	315.9	12,969.8	0.00	0.00	0.00
22,300.0	90.00	180.47	9,000.0	-13,066.1	315.0	13,069.8	0.00	0.00	0.00
22,400.0	90.00	180.47	9,000.0	-13,166.1	314.2	13,169.8	0.00	0.00	0.00
22,500.0	90.00	180.47	9,000.0	-13,266.1	313.4	13,269.7	0.00	0.00	0.00
22,600.0	90.00	180.47	9,000.0	-13,366.1	312.6	13,369.7	0.00	0.00	0.00
22,700.0	90.00	180.47	9,000.0	-13,466.1	311.7	13,469.6	0.00	0.00	0.00
22,800.0	90.00	180.47	9,000.0	-13,566.1	310.9	13,569.6	0.00	0.00	0.00
22,900.0	90.00	180.47	9,000.0	-13,666.1	310.1	13,669.6	0.00	0.00	0.00
23,000.0	90.00	180.47	9,000.0	-13,766.1	309.3	13,769.5	0.00	0.00	0.00
23,100.0	90.00	180.47	9,000.0	-13,866.1	308.5	13,869.5	0.00	0.00	0.00
23,200.0	90.00	180.47	9,000.0	-13,966.1	307.6	13,969.5	0.00	0.00	0.00
23,300.0	90.00	180.47	9,000.0	-14,066.1	306.8	14,069.4	0.00	0.00	0.00
23,400.0	90.00	180.47	9,000.0	-14,166.1	306.0	14,169.4	0.00	0.00	0.00
23,500.0	90.00	180.47	9,000.0	-14,266.1	305.2	14,269.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 703H	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)	
23,600.0	90.00	180.47	9,000.0	-14,366.1	304.3	14,369.3	0.00	0.00	0.00	
23,700.0	90.00	180.47	9,000.0	-14,466.1	303.5	14,469.3	0.00	0.00	0.00	
23,800.0	90.00	180.47	9,000.0	-14,566.1	302.7	14,569.2	0.00	0.00	0.00	
23,900.0	90.00	180.47	9,000.0	-14,666.1	301.9	14,669.2	0.00	0.00	0.00	
24,000.0	90.00	180.47	9,000.0	-14,766.1	301.0	14,769.1	0.00	0.00	0.00	
24,100.0	90.00	180.47	9,000.0	-14,866.1	300.2	14,869.1	0.00	0.00	0.00	
24,200.0	90.00	180.47	9,000.0	-14,966.1	299.4	14,969.1	0.00	0.00	0.00	
24,300.0	90.00	180.47	9,000.0	-15,066.1	298.6	15,069.0	0.00	0.00	0.00	
24,400.0	90.00	180.47	9,000.0	-15,166.1	297.8	15,169.0	0.00	0.00	0.00	
24,479.7	90.00	180.47	9,000.0	-15,245.8	297.1	15,248.7	0.00	0.00	0.00	
TD at 24479.7										

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
PBHL_FLAMING SNAIL	0.00	0.47	9,000.0	-15,245.8	297.1	387,228.40	544,951.90	32° 3' 52.283 N	104° 11' 17.603 W
- plan hits target center									
- Rectangle (sides W100.0 H15,578.7 D20.0)									
LTP_FLAMING SNAIL F	90.00	180.51	9,000.0	-15,115.8	298.1	387,358.40	544,952.90	32° 3' 53.570 N	104° 11' 17.589 W
- plan misses target center by 0.1usft at 24349.7usft MD (9000.0 TVD, -15115.8 N, 298.2 E)									
- Circle (radius 50.0)									
FTP_FLAMING SNAIL F	0.00	0.00	9,000.0	332.6	425.7	402,806.80	545,080.50	32° 6' 26.454 N	104° 11' 15.864 W
- plan misses target center by 163.5usft at 8976.9usft MD (8876.4 TVD, 225.6 N, 424.4 E)									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
24,479.8	9,000.0	5-1/2" Production Casing		5-1/2	6-3/4

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,133.6	2,128.4	46.6	51.9	Start 1655.1 hold at 2133.6 MD	
3,788.7	3,743.2	289.3	321.9	Start Drop -1.00	
5,055.8	5,000.0	382.6	425.7	Start 3522.5 hold at 5055.8 MD	
8,578.3	8,522.5	382.6	425.7	Start DLS 12.00 TFO 180.47	
9,328.3	9,000.0	-94.8	421.8	Start 15151.5 hold at 9328.3 MD	
24,479.7	9,000.0	-15,245.8	297.1	TD at 24479.7	

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM 703H

OWB

PWP0

Anticollision Report

11 November, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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	8,585.2	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1	rev.5
8,585.2	24,479.7	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						
CHEVRON_HH SO 10 P3_CICADA UNIT						
CICADA UNIT 16H - OWB - AWP	24,330.0	9,182.3	865.7	654.4	4.097	CC, ES, SF
HH SO 10 15 FED 002 1H - OWB - AWP	24,479.7	9,059.6	908.5	702.5	4.410	CC, ES, SF
HH SO 10 15 FED 002 3H - OWB - AWP	24,330.0	9,182.3	866.0	654.7	4.100	CC, ES, SF
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP0	1,500.0	1,500.0	30.0	20.2	3.045	CC, ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP0	24,479.7	24,424.2	857.9	560.4	2.884	Normal Operations, SF
FLAMING SNAIL FEDERAL COM 501H - OWB - AWP	1,200.0	1,204.6	110.7	102.7	13.851	CC
FLAMING SNAIL FEDERAL COM 501H - OWB - AWP	1,204.4	1,209.0	110.7	102.7	13.835	ES
FLAMING SNAIL FEDERAL COM 501H - OWB - AWP	7,400.0	7,498.0	171.8	145.5	6.534	SF
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	1,292.6	1,295.3	150.9	140.7	14.826	CC
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	1,300.0	1,302.7	150.9	140.7	14.783	ES
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	1,600.0	1,601.1	157.3	145.7	13.515	SF
FLAMING SNAIL FEDERAL COM 520H - OWB - AWP	1,904.4	1,917.2	132.1	120.3	11.204	CC, ES
FLAMING SNAIL FEDERAL COM 520H - OWB - AWP	2,100.0	2,113.4	137.0	123.9	10.428	SF
FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0	1,500.0	1,495.4	153.0	143.1	15.536	CC
FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0	1,600.0	1,591.8	153.2	143.0	14.949	ES
FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0	24,479.7	25,222.5	867.0	614.2	3.430	SF
FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0	1,500.0	1,495.4	161.4	151.6	16.393	CC
FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0	1,600.0	1,592.3	161.7	151.5	15.841	ES
FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0	1,800.0	1,783.8	166.8	155.9	15.298	SF

Offset Design:		CHEVRON_HH SO 10 P3_CICADA UNIT - CICADA UNIT 16H - OWB - AWP											Offset Site Error:		0.0 usft	
Survey Program:		185-r.5 MWD											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
23,900.0	9,000.0	9,180.8	9,138.1	145.3	23.1	-89.96	-15,103.2	1,164.0	966.6	782.3	184.31	5.244				
24,000.0	9,000.0	9,181.2	9,138.5	146.2	23.1	-89.99	-15,103.2	1,164.0	926.4	733.2	193.20	4.795				
24,100.0	9,000.0	9,181.5	9,138.8	147.2	23.1	-90.01	-15,103.2	1,164.0	895.7	694.7	200.94	4.457				
24,200.0	9,000.0	9,181.9	9,139.2	148.1	23.1	-90.03	-15,103.2	1,164.0	875.4	668.4	206.93	4.230				
24,300.0	9,000.0	9,182.2	9,139.5	149.1	23.1	-90.06	-15,103.2	1,164.0	866.2	655.5	210.66	4.112				
24,330.0	9,000.0	9,182.3	9,139.7	149.4	23.1	-90.06	-15,103.2	1,164.0	865.7	654.4	211.28	4.097 CC, ES, SF				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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:	CHEVRON_HH SO 10 P3_CICADA UNIT - CICADA UNIT 16H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	185-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre				Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
24,400.0	9,000.0	9,182.6	9,139.9	150.0	23.1	-90.08	-15,103.2	1,164.0	868.5	656.7	211.81	4.100		
24,479.7	9,000.0	9,182.9	9,140.2	150.8	23.1	-90.10	-15,103.2	1,164.0	878.5	667.6	210.88	4.166		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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:	CHEVRON_HH SO 10 P3_CICADA UNIT - HH SO 10 15 FED 002 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	170-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
24,200.0	9,000.0	8,935.2	8,866.6	148.1	21.9	-72.59	-15,370.1	1,166.7	995.0	806.2	188.83	5.269		
24,300.0	9,000.0	8,973.0	8,896.0	149.1	22.0	-74.34	-15,393.8	1,165.5	958.3	762.6	195.68	4.897		
24,400.0	9,000.0	9,020.9	8,932.2	150.0	22.0	-76.57	-15,425.3	1,164.4	928.1	726.4	201.68	4.602		
24,479.7	9,000.0	9,059.6	8,961.3	150.8	22.1	-78.39	-15,450.7	1,164.0	908.5	702.5	206.01	4.410 CC, ES, SF		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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: CHEVRON_HH SO 10 P3_CICADA UNIT - HH SO 10 15 FED 002 3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 185-r.5 MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
23,900.0	9,000.0	9,180.8	9,138.1	145.3	22.9	-89.96	-15,103.2	1,164.3	966.9	782.6	184.26	5.247	
24,000.0	9,000.0	9,181.2	9,138.5	146.2	22.9	-89.99	-15,103.2	1,164.3	926.7	733.6	193.15	4.798	
24,100.0	9,000.0	9,181.5	9,138.8	147.2	22.9	-90.01	-15,103.2	1,164.3	896.0	695.1	200.89	4.460	
24,200.0	9,000.0	9,181.9	9,139.2	148.1	22.9	-90.03	-15,103.2	1,164.3	875.7	668.8	206.88	4.233	
24,300.0	9,000.0	9,182.2	9,139.5	149.1	22.9	-90.06	-15,103.2	1,164.3	866.5	655.9	210.61	4.114	
24,330.0	9,000.0	9,182.3	9,139.7	149.4	22.9	-90.06	-15,103.2	1,164.3	866.0	654.7	211.23	4.100 CC, ES, SF	
24,400.0	9,000.0	9,182.6	9,139.9	150.0	22.9	-90.08	-15,103.2	1,164.3	868.8	657.0	211.76	4.103	
24,479.7	9,000.0	9,182.9	9,140.2	150.8	22.9	-90.10	-15,103.2	1,164.3	878.8	668.0	210.83	4.168	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	No-Go	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.95	-0.5	-30.0	30.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.95	-0.5	-30.0	30.0	28.0	2.02	14.835	
200.0	200.0	200.0	200.0	1.4	1.4	-90.95	-0.5	-30.0	30.0	26.7	3.34	8.976	
300.0	300.0	300.0	300.0	1.9	1.9	-90.95	-0.5	-30.0	30.0	25.8	4.23	7.099	
400.0	400.0	400.0	400.0	2.2	2.2	-90.95	-0.5	-30.0	30.0	25.1	4.94	6.070	
500.0	500.0	500.0	500.0	2.6	2.6	-90.95	-0.5	-30.0	30.0	24.4	5.56	5.392	
600.0	600.0	600.0	600.0	2.8	2.8	-90.95	-0.5	-30.0	30.0	23.9	6.12	4.901	
700.0	700.0	700.0	700.0	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.4	6.63	4.524	
800.0	800.0	800.0	800.0	3.3	3.3	-90.95	-0.5	-30.0	30.0	22.9	7.11	4.221	
900.0	900.0	900.0	900.0	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.4	7.55	3.971	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.0	7.98	3.761	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.95	-0.5	-30.0	30.0	21.6	8.38	3.579	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.2	8.77	3.421	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.95	-0.5	-30.0	30.0	20.9	9.14	3.281	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.95	-0.5	-30.0	30.0	20.5	9.50	3.157	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.95	-0.5	-30.0	30.0	20.2	9.85	3.045 CC, ES	
1,600.0	1,600.0	1,599.2	1,599.2	5.0	5.0	-138.89	0.7	-31.3	32.6	22.3	10.29	3.164	
1,700.0	1,699.8	1,698.0	1,697.8	5.3	5.3	-138.61	4.1	-35.0	40.3	29.5	10.72	3.755	
1,800.0	1,799.5	1,796.0	1,795.5	5.6	5.6	-138.29	9.9	-41.2	53.1	41.9	11.16	4.754	
1,900.0	1,898.7	1,892.9	1,891.6	5.9	5.9	-137.98	17.7	-49.8	70.9	59.3	11.61	6.107	
2,000.0	1,997.5	1,988.2	1,985.9	6.2	6.2	-137.68	27.6	-60.5	93.6	81.6	12.06	7.763	
2,100.0	2,095.6	2,082.1	2,078.1	6.5	6.4	-137.39	39.4	-73.3	121.2	108.7	12.46	9.722	
2,133.6	2,128.4	2,114.1	2,109.5	6.6	6.5	-137.38	43.7	-78.0	131.3	118.7	12.57	10.442	
2,200.0	2,193.2	2,177.4	2,171.5	6.8	6.7	-137.70	52.2	-87.2	151.6	138.7	12.84	11.803	
2,300.0	2,290.8	2,272.6	2,264.9	7.1	6.9	-138.05	65.0	-101.1	182.1	168.8	13.31	13.684	
2,400.0	2,388.4	2,367.8	2,358.2	7.4	7.3	-138.30	77.8	-115.0	212.6	198.8	13.79	15.414	
2,500.0	2,485.9	2,463.1	2,451.5	7.8	7.6	-138.48	90.6	-128.8	243.1	228.8	14.30	17.003	
2,600.0	2,583.5	2,558.3	2,544.9	8.1	7.9	-138.63	103.4	-142.7	273.7	258.9	14.82	18.460	
2,700.0	2,681.1	2,653.5	2,638.2	8.5	8.2	-138.74	116.1	-156.6	304.2	288.8	15.37	19.798	
2,800.0	2,778.6	2,748.7	2,731.5	8.9	8.6	-138.84	128.9	-170.4	334.7	318.8	15.92	21.026	
2,900.0	2,876.2	2,844.0	2,824.9	9.3	9.0	-138.91	141.7	-184.3	365.3	348.8	16.49	22.154	
3,000.0	2,973.7	2,939.2	2,918.2	9.6	9.3	-138.98	154.5	-198.2	395.8	378.7	17.07	23.191	
3,100.0	3,071.3	3,034.4	3,011.5	10.1	9.7	-139.04	167.3	-212.1	426.4	408.7	17.66	24.146	
3,200.0	3,168.9	3,129.6	3,104.9	10.5	10.1	-139.09	180.0	-225.9	456.9	438.6	18.26	25.027	
3,300.0	3,266.4	3,224.8	3,198.2	10.9	10.5	-139.13	192.8	-239.8	487.4	468.6	18.86	25.840	
3,400.0	3,364.0	3,320.1	3,291.5	11.3	10.9	-139.17	205.6	-253.7	518.0	498.5	19.48	26.592	
3,500.0	3,461.6	3,415.3	3,384.9	11.7	11.2	-139.20	218.4	-267.5	548.5	528.4	20.10	27.288	
3,600.0	3,559.1	3,510.5	3,478.2	12.2	11.6	-139.23	231.2	-281.4	579.0	558.3	20.73	27.934	
3,700.0	3,656.7	3,605.7	3,571.6	12.6	12.0	-139.26	244.0	-295.3	609.6	588.2	21.36	28.534	
3,788.7	3,743.2	3,690.2	3,654.3	13.0	12.4	-139.28	255.3	-307.6	636.6	614.7	21.92	29.043	
3,800.0	3,754.3	3,701.0	3,664.9	13.0	12.5	-139.31	256.7	-309.2	640.1	618.1	21.99	29.111	
3,900.0	3,852.1	3,796.4	3,758.5	13.5	12.9	-139.47	269.6	-323.1	669.9	647.2	22.66	29.563	
4,000.0	3,950.2	3,892.3	3,852.4	13.9	13.3	-139.53	282.4	-337.0	698.4	675.1	23.30	29.969	
4,100.0	4,048.7	3,996.7	3,954.9	14.3	13.7	-139.52	296.0	-351.7	725.1	701.1	23.99	30.224	
4,200.0	4,147.4	4,103.4	4,060.0	14.8	14.2	-139.51	308.5	-365.3	749.3	724.7	24.68	30.357	
4,300.0	4,246.4	4,211.2	4,166.5	15.2	14.6	-139.50	319.8	-377.6	771.0	745.6	25.36	30.397	
4,400.0	4,345.7	4,320.0	4,274.2	15.6	15.1	-139.50	329.8	-388.5	790.0	764.0	26.03	30.352	
4,500.0	4,445.1	4,429.5	4,383.0	16.0	15.5	-139.50	338.5	-397.9	806.4	779.7	26.67	30.232	
4,600.0	4,544.7	4,539.7	4,492.7	16.3	15.9	-139.50	345.9	-405.8	820.1	792.8	27.29	30.047	
4,700.0	4,644.5	4,650.6	4,603.2	16.7	16.3	-139.50	351.8	-412.3	831.1	803.2	27.89	29.804	
4,800.0	4,744.3	4,761.9	4,714.3	17.0	16.7	-139.50	356.3	-417.1	839.4	811.0	28.44	29.513	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.0	4,844.3	4,873.5	4,825.8	17.3	17.1	-139.50	359.3	-420.4	845.1	816.1	28.96	29.185		
5,000.0	4,944.2	4,985.3	4,937.6	17.6	17.4	-139.50	360.9	-422.1	847.9	818.5	29.40	28.841		
5,055.8	5,000.0	5,047.7	5,000.0	17.7	17.5	-91.45	361.1	-422.4	848.4	818.8	29.53	28.728		
5,070.5	5,014.7	5,062.4	5,014.7	17.7	17.5	-91.45	361.1	-422.4	848.4	818.8	29.54	28.718		
5,100.0	5,044.2	5,091.9	5,044.2	17.7	17.5	-91.45	361.1	-422.4	848.4	818.8	29.56	28.698		
5,200.0	5,144.2	5,191.9	5,144.2	17.8	17.6	-91.45	361.1	-422.4	848.4	818.7	29.69	28.576		
5,300.0	5,244.2	5,291.9	5,244.2	17.8	17.6	-91.45	361.1	-422.4	848.4	818.5	29.82	28.452		
5,400.0	5,344.2	5,391.9	5,344.2	17.9	17.7	-91.45	361.1	-422.4	848.4	818.4	29.95	28.329		
5,500.0	5,444.2	5,491.9	5,444.2	17.9	17.7	-91.45	361.1	-422.4	848.4	818.3	30.08	28.207		
5,600.0	5,544.2	5,591.9	5,544.2	18.0	17.8	-91.45	361.1	-422.4	848.4	818.2	30.21	28.086		
5,700.0	5,644.2	5,691.9	5,644.2	18.0	17.8	-91.45	361.1	-422.4	848.4	818.0	30.34	27.965		
5,800.0	5,744.2	5,791.9	5,744.2	18.1	17.9	-91.45	361.1	-422.4	848.4	817.9	30.47	27.845		
5,900.0	5,844.2	5,891.9	5,844.2	18.2	18.0	-91.45	361.1	-422.4	848.4	817.8	30.60	27.726		
6,000.0	5,944.2	5,991.9	5,944.2	18.2	18.0	-91.45	361.1	-422.4	848.4	817.6	30.73	27.608		
6,100.0	6,044.2	6,091.9	6,044.2	18.3	18.1	-91.45	361.1	-422.4	848.4	817.5	30.86	27.490		
6,200.0	6,144.2	6,191.9	6,144.2	18.3	18.1	-91.45	361.1	-422.4	848.4	817.4	30.99	27.373		
6,300.0	6,244.2	6,291.9	6,244.2	18.4	18.2	-91.45	361.1	-422.4	848.4	817.2	31.12	27.257		
6,400.0	6,344.2	6,391.9	6,344.2	18.4	18.2	-91.45	361.1	-422.4	848.4	817.1	31.26	27.142		
6,500.0	6,444.2	6,491.9	6,444.2	18.5	18.3	-91.45	361.1	-422.4	848.4	817.0	31.39	27.027		
6,600.0	6,544.2	6,591.9	6,544.2	18.6	18.4	-91.45	361.1	-422.4	848.4	816.8	31.52	26.913		
6,700.0	6,644.2	6,691.9	6,644.2	18.6	18.4	-91.45	361.1	-422.4	848.4	816.7	31.66	26.800		
6,800.0	6,744.2	6,791.9	6,744.2	18.7	18.5	-91.45	361.1	-422.4	848.4	816.6	31.79	26.687		
6,900.0	6,844.2	6,891.9	6,844.2	18.7	18.5	-91.45	361.1	-422.4	848.4	816.4	31.92	26.576		
7,000.0	6,944.2	6,991.9	6,944.2	18.8	18.6	-91.45	361.1	-422.4	848.4	816.3	32.06	26.465		
7,100.0	7,044.2	7,091.9	7,044.2	18.9	18.7	-91.45	361.1	-422.4	848.4	816.2	32.19	26.354		
7,200.0	7,144.2	7,191.9	7,144.2	18.9	18.7	-91.45	361.1	-422.4	848.4	816.0	32.32	26.245		
7,300.0	7,244.2	7,291.9	7,244.2	19.0	18.8	-91.45	361.1	-422.4	848.4	815.9	32.46	26.136		
7,400.0	7,344.2	7,391.9	7,344.2	19.0	18.8	-91.45	361.1	-422.4	848.4	815.8	32.59	26.028		
7,500.0	7,444.2	7,491.9	7,444.2	19.1	18.9	-91.45	361.1	-422.4	848.4	815.6	32.73	25.920		
7,600.0	7,544.2	7,591.9	7,544.2	19.2	19.0	-91.45	361.1	-422.4	848.4	815.5	32.86	25.814		
7,700.0	7,644.2	7,691.9	7,644.2	19.2	19.0	-91.45	361.1	-422.4	848.4	815.4	33.00	25.708		
7,800.0	7,744.2	7,791.9	7,744.2	19.3	19.1	-91.45	361.1	-422.4	848.4	815.2	33.14	25.602		
7,900.0	7,844.2	7,891.9	7,844.2	19.3	19.1	-91.45	361.1	-422.4	848.4	815.1	33.27	25.497		
8,000.0	7,944.2	7,991.9	7,944.2	19.4	19.2	-91.45	361.1	-422.4	848.4	815.0	33.41	25.393		
8,100.0	8,044.2	8,091.9	8,044.2	19.5	19.3	-91.45	361.1	-422.4	848.4	814.8	33.55	25.290		
8,200.0	8,144.2	8,191.9	8,144.2	19.5	19.3	-91.45	361.1	-422.4	848.4	814.7	33.68	25.187		
8,300.0	8,244.2	8,291.9	8,244.2	19.6	19.4	-91.45	361.1	-422.4	848.4	814.5	33.82	25.085		
8,400.0	8,344.2	8,391.9	8,344.2	19.6	19.5	-91.45	361.1	-422.4	848.4	814.4	33.96	24.984		
8,500.0	8,444.2	8,491.9	8,444.2	19.7	19.5	-91.45	361.1	-422.4	848.4	814.3	34.09	24.883		
8,578.3	8,522.5	8,570.2	8,522.5	19.7	19.6	-91.45	361.1	-422.4	848.4	814.2	34.18	24.820		
8,600.0	8,544.2	8,590.7	8,543.0	19.7	19.6	88.08	360.7	-422.4	848.4	814.2	34.19	24.814		
8,625.0	8,569.2	8,614.2	8,566.5	19.8	19.6	88.09	359.1	-422.4	848.4	814.2	34.19	24.812		
8,650.0	8,594.0	8,637.8	8,589.9	19.8	19.6	88.10	356.3	-422.4	848.4	814.2	34.19	24.811		
8,675.0	8,618.6	8,661.4	8,613.2	19.8	19.6	88.11	352.4	-422.5	848.3	814.2	34.19	24.812		
8,700.0	8,642.9	8,685.0	8,636.2	19.8	19.6	88.14	347.4	-422.5	848.3	814.2	34.19	24.814		
8,725.0	8,666.9	8,708.6	8,659.0	19.8	19.6	88.16	341.2	-422.6	848.3	814.1	34.18	24.816		
8,750.0	8,690.6	8,732.3	8,681.5	19.8	19.6	88.19	333.9	-422.6	848.3	814.1	34.18	24.819		
8,775.0	8,713.7	8,755.9	8,703.6	19.8	19.6	88.23	325.4	-422.7	848.3	814.1	34.18	24.822		
8,800.0	8,736.4	8,779.6	8,725.3	19.8	19.6	88.27	315.9	-422.8	848.3	814.1	34.17	24.826		
8,825.0	8,758.4	8,803.3	8,746.5	19.8	19.6	88.31	305.3	-422.9	848.3	814.1	34.16	24.829		
8,850.0	8,779.8	8,827.0	8,767.2	19.8	19.6	88.36	293.7	-423.0	848.3	814.1	34.16	24.832		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,875.0	8,800.5	8,850.8	8,787.3	19.8	19.7	88.42	281.0	-423.1	848.3	814.1	34.16	24.834	
8,900.0	8,820.4	8,875.0	8,807.0	19.9	19.7	88.48	267.1	-423.2	848.2	814.1	34.16	24.835	
8,925.0	8,839.6	8,898.5	8,825.5	19.9	19.7	88.54	252.6	-423.4	848.2	814.1	34.16	24.834	
8,950.0	8,857.8	8,922.4	8,843.6	19.9	19.7	88.60	237.0	-423.5	848.2	814.1	34.16	24.832	
8,975.0	8,875.1	8,946.3	8,860.9	19.9	19.7	88.67	220.4	-423.6	848.2	814.0	34.16	24.827	
9,000.0	8,891.5	8,970.3	8,877.4	19.9	19.7	88.75	203.0	-423.8	848.2	814.0	34.17	24.820	
9,025.0	8,906.8	8,994.4	8,893.1	19.9	19.7	88.82	184.7	-424.0	848.2	814.0	34.19	24.810	
9,050.0	8,921.1	9,018.5	8,907.8	20.0	19.8	88.90	165.7	-424.1	848.2	814.0	34.20	24.797	
9,075.0	8,934.4	9,042.7	8,921.6	20.0	19.8	88.99	145.8	-424.3	848.2	813.9	34.23	24.780	
9,100.0	8,946.4	9,066.9	8,934.3	20.0	19.8	89.07	125.2	-424.5	848.1	813.9	34.26	24.759	
9,125.0	8,957.3	9,091.2	8,946.1	20.0	19.8	89.16	104.0	-424.7	848.1	813.8	34.29	24.734	
9,150.0	8,967.1	9,115.5	8,956.8	20.1	19.9	89.25	82.1	-424.9	848.1	813.8	34.33	24.705	
9,175.0	8,975.6	9,139.9	8,966.3	20.1	19.9	89.34	59.6	-425.1	848.1	813.8	34.38	24.672	
9,191.9	8,980.6	9,156.5	8,972.2	20.1	19.9	89.41	44.2	-425.2	848.1	813.7	34.41	24.646	
9,200.0	8,982.8	9,164.4	8,974.8	20.1	19.9	89.44	36.7	-425.3	848.1	813.7	34.43	24.633	
9,225.0	8,988.8	9,189.0	8,982.1	20.1	19.9	89.53	13.2	-425.5	848.1	813.6	34.49	24.591	
9,250.0	8,993.6	9,213.6	8,988.1	20.2	20.0	89.63	-10.7	-425.7	848.1	813.6	34.56	24.544	
9,275.0	8,997.0	9,238.3	8,993.0	20.2	20.0	89.73	-34.9	-425.9	848.1	813.5	34.63	24.492	
9,300.0	8,999.1	9,263.1	8,996.6	20.2	20.0	89.83	-59.4	-426.1	848.2	813.4	34.71	24.436	
9,325.0	9,000.0	9,287.9	8,998.9	20.3	20.0	89.93	-84.1	-426.3	848.2	813.4	34.80	24.375	
9,328.3	9,000.0	9,291.2	8,999.1	20.3	20.0	89.94	-87.4	-426.4	848.2	813.4	34.81	24.367	
9,400.0	9,000.0	9,362.9	9,000.0	20.4	20.1	90.00	-159.1	-427.0	848.2	813.1	35.11	24.162	
9,500.0	9,000.0	9,462.9	9,000.0	20.5	20.3	90.00	-259.1	-427.9	848.3	812.7	35.62	23.815	
9,600.0	9,000.0	9,562.9	9,000.0	20.7	20.5	90.00	-359.1	-428.8	848.3	812.1	36.23	23.417	
9,700.0	9,000.0	9,662.9	9,000.0	20.9	20.7	90.00	-459.1	-429.7	848.4	811.5	36.92	22.976	
9,800.0	9,000.0	9,762.9	9,000.0	21.2	20.9	90.00	-559.1	-430.5	848.5	810.8	37.71	22.502	
9,900.0	9,000.0	9,862.9	9,000.0	21.5	21.2	90.00	-659.0	-431.4	848.5	810.0	38.57	22.001	
10,000.0	9,000.0	9,962.9	9,000.0	21.8	21.5	90.00	-759.0	-432.3	848.6	809.1	39.50	21.482	
10,100.0	9,000.0	10,062.9	9,000.0	22.1	21.9	90.00	-859.0	-433.2	848.7	808.1	40.51	20.951	
10,200.0	9,000.0	10,162.9	9,000.0	22.5	22.3	90.00	-959.0	-434.1	848.7	807.1	41.57	20.415	
10,300.0	9,000.0	10,262.9	9,000.0	23.0	22.7	90.00	-1,059.0	-435.0	848.8	806.1	42.70	19.878	
10,400.0	9,000.0	10,362.9	9,000.0	23.4	23.2	90.00	-1,159.0	-435.9	848.8	805.0	43.88	19.345	
10,500.0	9,000.0	10,462.9	9,000.0	23.9	23.7	90.00	-1,259.0	-436.7	848.9	803.8	45.11	18.819	
10,600.0	9,000.0	10,562.9	9,000.0	24.5	24.2	90.00	-1,359.0	-437.6	849.0	802.6	46.39	18.302	
10,700.0	9,000.0	10,662.9	9,000.0	25.0	24.8	90.00	-1,459.0	-438.5	849.0	801.3	47.70	17.798	
10,800.0	9,000.0	10,762.9	9,000.0	25.6	25.4	90.00	-1,559.0	-439.4	849.1	800.0	49.06	17.307	
10,900.0	9,000.0	10,862.9	9,000.0	26.3	26.0	90.00	-1,659.0	-440.3	849.2	798.7	50.45	16.830	
11,000.0	9,000.0	10,962.9	9,000.0	26.9	26.7	90.00	-1,759.0	-441.2	849.2	797.3	51.88	16.369	
11,100.0	9,000.0	11,062.9	9,000.0	27.6	27.3	90.00	-1,859.0	-442.1	849.3	796.0	53.33	15.924	
11,200.0	9,000.0	11,162.9	9,000.0	28.3	28.0	90.00	-1,959.0	-442.9	849.3	794.5	54.82	15.494	
11,300.0	9,000.0	11,262.9	9,000.0	29.0	28.7	90.00	-2,059.0	-443.8	849.4	793.1	56.33	15.080	
11,400.0	9,000.0	11,362.9	9,000.0	29.7	29.5	90.00	-2,159.0	-444.7	849.5	791.6	57.86	14.682	
11,500.0	9,000.0	11,462.9	9,000.0	30.5	30.2	90.00	-2,259.0	-445.6	849.5	790.1	59.41	14.299	
11,600.0	9,000.0	11,562.9	9,000.0	31.2	31.0	90.00	-2,359.0	-446.5	849.6	788.6	60.99	13.931	
11,700.0	9,000.0	11,662.9	9,000.0	32.0	31.8	90.00	-2,459.0	-447.4	849.7	787.1	62.58	13.578	
11,800.0	9,000.0	11,762.9	9,000.0	32.8	32.5	90.00	-2,559.0	-448.3	849.7	785.5	64.19	13.238	
11,900.0	9,000.0	11,862.9	9,000.0	33.6	33.3	90.00	-2,659.0	-449.1	849.8	784.0	65.81	12.912	
12,000.0	9,000.0	11,962.9	9,000.0	34.4	34.2	90.00	-2,759.0	-450.0	849.9	782.4	67.45	12.599	
12,100.0	9,000.0	12,062.9	9,000.0	35.2	35.0	90.00	-2,859.0	-450.9	849.9	780.8	69.10	12.299	
12,200.0	9,000.0	12,162.9	9,000.0	36.0	35.8	90.00	-2,959.0	-451.8	850.0	779.2	70.77	12.010	
12,300.0	9,000.0	12,262.9	9,000.0	36.9	36.6	90.00	-3,059.0	-452.7	850.0	777.6	72.45	11.733	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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	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
12,400.0	9,000.0	12,362.9	9,000.0	37.7	37.5	90.00	-3,158.9	-453.6	850.1	776.0	74.14	11.467	
12,500.0	9,000.0	12,462.9	9,000.0	38.5	38.3	90.00	-3,258.9	-454.5	850.2	774.3	75.83	11.211	
12,600.0	9,000.0	12,562.9	9,000.0	39.4	39.2	90.00	-3,358.9	-455.3	850.2	772.7	77.54	10.965	
12,700.0	9,000.0	12,662.9	9,000.0	40.2	40.0	90.00	-3,458.9	-456.2	850.3	771.0	79.26	10.728	
12,800.0	9,000.0	12,762.9	9,000.0	41.1	40.9	90.00	-3,558.9	-457.1	850.4	769.4	80.99	10.500	
12,900.0	9,000.0	12,862.9	9,000.0	42.0	41.7	90.00	-3,658.9	-458.0	850.4	767.7	82.72	10.281	
13,000.0	9,000.0	12,962.9	9,000.0	42.9	42.6	90.00	-3,758.9	-458.9	850.5	766.0	84.46	10.070	
13,100.0	9,000.0	13,062.9	9,000.0	43.7	43.5	90.00	-3,858.9	-459.8	850.5	764.3	86.21	9.866	
13,200.0	9,000.0	13,162.9	9,000.0	44.6	44.4	90.00	-3,958.9	-460.7	850.6	762.6	87.96	9.670	
13,300.0	9,000.0	13,262.9	9,000.0	45.5	45.3	90.00	-4,058.9	-461.5	850.7	761.0	89.72	9.481	
13,400.0	9,000.0	13,362.9	9,000.0	46.4	46.2	90.00	-4,158.9	-462.4	850.7	759.3	91.49	9.299	
13,500.0	9,000.0	13,462.9	9,000.0	47.3	47.0	90.00	-4,258.9	-463.3	850.8	757.5	93.26	9.123	
13,600.0	9,000.0	13,562.9	9,000.0	48.2	47.9	90.00	-4,358.9	-464.2	850.9	755.8	95.03	8.953	
13,700.0	9,000.0	13,662.9	9,000.0	49.1	48.8	90.00	-4,458.9	-465.1	850.9	754.1	96.81	8.789	
13,800.0	9,000.0	13,762.9	9,000.0	50.0	49.7	90.00	-4,558.9	-466.0	851.0	752.4	98.60	8.631	
13,900.0	9,000.0	13,862.9	9,000.0	50.9	50.6	90.00	-4,658.9	-466.9	851.1	750.7	100.39	8.477	
14,000.0	9,000.0	13,962.9	9,000.0	51.8	51.5	90.00	-4,758.9	-467.8	851.1	748.9	102.18	8.329	
14,100.0	9,000.0	14,062.9	9,000.0	52.7	52.4	90.00	-4,858.9	-468.6	851.2	747.2	103.98	8.186	
14,200.0	9,000.0	14,162.9	9,000.0	53.6	53.4	90.00	-4,958.9	-469.5	851.2	745.5	105.78	8.047	
14,300.0	9,000.0	14,262.9	9,000.0	54.5	54.3	90.00	-5,058.9	-470.4	851.3	743.7	107.59	7.913	
14,400.0	9,000.0	14,362.9	9,000.0	55.4	55.2	90.00	-5,158.9	-471.3	851.4	742.0	109.40	7.782	
14,500.0	9,000.0	14,462.9	9,000.0	56.3	56.1	90.00	-5,258.9	-472.2	851.4	740.2	111.21	7.656	
14,600.0	9,000.0	14,562.9	9,000.0	57.2	57.0	90.00	-5,358.9	-473.1	851.5	738.5	113.02	7.534	
14,700.0	9,000.0	14,662.9	9,000.0	58.2	57.9	90.00	-5,458.9	-474.0	851.6	736.7	114.84	7.415	
14,800.0	9,000.0	14,762.9	9,000.0	59.1	58.8	90.00	-5,558.9	-474.8	851.6	735.0	116.66	7.300	
14,900.0	9,000.0	14,862.9	9,000.0	60.0	59.8	90.00	-5,658.8	-475.7	851.7	733.2	118.48	7.188	
15,000.0	9,000.0	14,962.9	9,000.0	60.9	60.7	90.00	-5,758.8	-476.6	851.7	731.4	120.31	7.080	
15,100.0	9,000.0	15,062.9	9,000.0	61.8	61.6	90.00	-5,858.8	-477.5	851.8	729.7	122.14	6.974	
15,200.0	9,000.0	15,162.9	9,000.0	62.8	62.5	90.00	-5,958.8	-478.4	851.9	727.9	123.97	6.872	
15,300.0	9,000.0	15,262.9	9,000.0	63.7	63.5	90.00	-6,058.8	-479.3	851.9	726.1	125.80	6.772	
15,400.0	9,000.0	15,362.9	9,000.0	64.6	64.4	90.00	-6,158.8	-480.2	852.0	724.4	127.63	6.675	
15,500.0	9,000.0	15,462.9	9,000.0	65.5	65.3	90.00	-6,258.8	-481.0	852.1	722.6	129.47	6.581	
15,600.0	9,000.0	15,562.9	9,000.0	66.5	66.3	90.00	-6,358.8	-481.9	852.1	720.8	131.31	6.490	
15,700.0	9,000.0	15,662.9	9,000.0	67.4	67.2	90.00	-6,458.8	-482.8	852.2	719.0	133.15	6.400	
15,800.0	9,000.0	15,762.9	9,000.0	68.3	68.1	90.00	-6,558.8	-483.7	852.3	717.3	134.99	6.314	
15,900.0	9,000.0	15,862.9	9,000.0	69.3	69.0	90.00	-6,658.8	-484.6	852.3	715.5	136.83	6.229	
16,000.0	9,000.0	15,962.9	9,000.0	70.2	70.0	90.00	-6,758.8	-485.5	852.4	713.7	138.68	6.147	
16,100.0	9,000.0	16,062.9	9,000.0	71.1	70.9	90.00	-6,858.8	-486.4	852.4	711.9	140.52	6.066	
16,200.0	9,000.0	16,162.9	9,000.0	72.1	71.8	90.00	-6,958.8	-487.2	852.5	710.1	142.37	5.988	
16,300.0	9,000.0	16,262.9	9,000.0	73.0	72.8	90.00	-7,058.8	-488.1	852.6	708.3	144.22	5.912	
16,400.0	9,000.0	16,362.9	9,000.0	73.9	73.7	90.00	-7,158.8	-489.0	852.6	706.6	146.07	5.837	
16,500.0	9,000.0	16,462.9	9,000.0	74.9	74.7	90.00	-7,258.8	-489.9	852.7	704.8	147.92	5.764	
16,600.0	9,000.0	16,562.9	9,000.0	75.8	75.6	90.00	-7,358.8	-490.8	852.8	703.0	149.77	5.694	
16,700.0	9,000.0	16,662.9	9,000.0	76.8	76.5	90.00	-7,458.8	-491.7	852.8	701.2	151.63	5.624	
16,800.0	9,000.0	16,762.9	9,000.0	77.7	77.5	90.00	-7,558.8	-492.6	852.9	699.4	153.48	5.557	
16,900.0	9,000.0	16,862.9	9,000.0	78.6	78.4	90.00	-7,658.8	-493.4	852.9	697.6	155.34	5.491	
17,000.0	9,000.0	16,962.9	9,000.0	79.6	79.4	90.00	-7,758.8	-494.3	853.0	695.8	157.20	5.426	
17,100.0	9,000.0	17,062.9	9,000.0	80.5	80.3	90.00	-7,858.8	-495.2	853.1	694.0	159.06	5.363	
17,200.0	9,000.0	17,162.9	9,000.0	81.5	81.2	90.00	-7,958.8	-496.1	853.1	692.2	160.92	5.302	
17,300.0	9,000.0	17,262.9	9,000.0	82.4	82.2	90.00	-8,058.8	-497.0	853.2	690.4	162.78	5.241	
17,400.0	9,000.0	17,362.9	9,000.0	83.3	83.1	90.00	-8,158.8	-497.9	853.3	688.6	164.64	5.183	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,500.0	9,000.0	17,462.9	9,000.0	84.3	84.1	90.00	-8,258.7	-498.8	853.3	686.8	166.50	5.125	
17,600.0	9,000.0	17,562.9	9,000.0	85.2	85.0	90.00	-8,358.7	-499.6	853.4	685.0	168.37	5.069	
17,700.0	9,000.0	17,662.9	9,000.0	86.2	86.0	90.00	-8,458.7	-500.5	853.4	683.2	170.23	5.013	
17,800.0	9,000.0	17,762.9	9,000.0	87.1	86.9	90.00	-8,558.7	-501.4	853.5	681.4	172.10	4.959	
17,900.0	9,000.0	17,862.9	9,000.0	88.1	87.8	90.00	-8,658.7	-502.3	853.6	679.6	173.96	4.907	
18,000.0	9,000.0	17,962.9	9,000.0	89.0	88.8	90.00	-8,758.7	-503.2	853.6	677.8	175.83	4.855	
18,100.0	9,000.0	18,062.9	9,000.0	90.0	89.7	90.00	-8,858.7	-504.1	853.7	676.0	177.70	4.804	
18,200.0	9,000.0	18,162.9	9,000.0	90.9	90.7	90.00	-8,958.7	-505.0	853.8	674.2	179.57	4.755	
18,300.0	9,000.0	18,262.9	9,000.0	91.9	91.6	90.00	-9,058.7	-505.8	853.8	672.4	181.44	4.706	
18,400.0	9,000.0	18,362.9	9,000.0	92.8	92.6	90.00	-9,158.7	-506.7	853.9	670.6	183.31	4.658	
18,500.0	9,000.0	18,462.9	9,000.0	93.7	93.5	90.00	-9,258.7	-507.6	854.0	668.8	185.18	4.612	
18,600.0	9,000.0	18,562.9	9,000.0	94.7	94.5	90.00	-9,358.7	-508.5	854.0	667.0	187.05	4.566	
18,700.0	9,000.0	18,662.9	9,000.0	95.6	95.4	90.00	-9,458.7	-509.4	854.1	665.2	188.92	4.521	
18,800.0	9,000.0	18,762.9	9,000.0	96.6	96.4	90.00	-9,558.7	-510.3	854.1	663.4	190.79	4.477	
18,900.0	9,000.0	18,862.9	9,000.0	97.5	97.3	90.00	-9,658.7	-511.2	854.2	661.5	192.66	4.434	
19,000.0	9,000.0	18,962.9	9,000.0	98.5	98.3	90.00	-9,758.7	-512.0	854.3	659.7	194.54	4.391	
19,100.0	9,000.0	19,062.9	9,000.0	99.4	99.2	90.00	-9,858.7	-512.9	854.3	657.9	196.41	4.350	
19,200.0	9,000.0	19,162.9	9,000.0	100.4	100.2	90.00	-9,958.7	-513.8	854.4	656.1	198.29	4.309	
19,300.0	9,000.0	19,262.9	9,000.0	101.3	101.1	90.00	-10,058.7	-514.7	854.5	654.3	200.16	4.269	
19,400.0	9,000.0	19,362.9	9,000.0	102.3	102.1	90.00	-10,158.7	-515.6	854.5	652.5	202.04	4.230	
19,500.0	9,000.0	19,462.9	9,000.0	103.2	103.0	90.00	-10,258.7	-516.5	854.6	650.7	203.91	4.191	
19,600.0	9,000.0	19,562.9	9,000.0	104.2	104.0	90.00	-10,358.7	-517.4	854.6	648.9	205.79	4.153	
19,700.0	9,000.0	19,662.9	9,000.0	105.1	104.9	90.00	-10,458.7	-518.2	854.7	647.0	207.67	4.116	
19,800.0	9,000.0	19,762.9	9,000.0	106.1	105.9	90.00	-10,558.7	-519.1	854.8	645.2	209.55	4.079	
19,900.0	9,000.0	19,862.9	9,000.0	107.0	106.8	90.00	-10,658.7	-520.0	854.8	643.4	211.42	4.043	
20,000.0	9,000.0	19,962.9	9,000.0	108.0	107.8	90.00	-10,758.6	-520.9	854.9	641.6	213.30	4.008	
20,100.0	9,000.0	20,062.9	9,000.0	109.0	108.7	90.00	-10,858.6	-521.8	855.0	639.8	215.18	3.973	
20,200.0	9,000.0	20,162.9	9,000.0	109.9	109.7	90.00	-10,958.6	-522.7	855.0	638.0	217.06	3.939	
20,300.0	9,000.0	20,262.9	9,000.0	110.9	110.6	90.00	-11,058.6	-523.6	855.1	636.1	218.94	3.906	
20,400.0	9,000.0	20,362.9	9,000.0	111.8	111.6	90.00	-11,158.6	-524.4	855.2	634.3	220.82	3.873	
20,500.0	9,000.0	20,462.9	9,000.0	112.8	112.5	90.00	-11,258.6	-525.3	855.2	632.5	222.70	3.840	
20,600.0	9,000.0	20,562.9	9,000.0	113.7	113.5	90.00	-11,358.6	-526.2	855.3	630.7	224.58	3.808	
20,700.0	9,000.0	20,662.9	9,000.0	114.7	114.4	90.00	-11,458.6	-527.1	855.3	628.9	226.46	3.777	
20,800.0	9,000.0	20,762.9	9,000.0	115.6	115.4	90.00	-11,558.6	-528.0	855.4	627.1	228.34	3.746	
20,900.0	9,000.0	20,862.9	9,000.0	116.6	116.3	90.00	-11,658.6	-528.9	855.5	625.2	230.23	3.716	
21,000.0	9,000.0	20,962.9	9,000.0	117.5	117.3	90.00	-11,758.6	-529.8	855.5	623.4	232.11	3.686	
21,100.0	9,000.0	21,062.9	9,000.0	118.5	118.3	90.00	-11,858.6	-530.7	855.6	621.6	233.99	3.657	
21,200.0	9,000.0	21,162.9	9,000.0	119.4	119.2	90.00	-11,958.6	-531.5	855.7	619.8	235.87	3.628	
21,300.0	9,000.0	21,262.9	9,000.0	120.4	120.2	90.00	-12,058.6	-532.4	855.7	618.0	237.76	3.599	
21,400.0	9,000.0	21,362.9	9,000.0	121.3	121.1	90.00	-12,158.6	-533.3	855.8	616.1	239.64	3.571	
21,500.0	9,000.0	21,462.9	9,000.0	122.3	122.1	90.00	-12,258.6	-534.2	855.8	614.3	241.52	3.544	
21,600.0	9,000.0	21,562.9	9,000.0	123.3	123.0	90.00	-12,358.6	-535.1	855.9	612.5	243.41	3.516	
21,700.0	9,000.0	21,662.9	9,000.0	124.2	124.0	90.00	-12,458.6	-536.0	856.0	610.7	245.29	3.490	
21,800.0	9,000.0	21,762.9	9,000.0	125.2	124.9	90.00	-12,558.6	-536.9	856.0	608.9	247.18	3.463	
21,900.0	9,000.0	21,862.9	9,000.0	126.1	125.9	90.00	-12,658.6	-537.7	856.1	607.0	249.06	3.437	
22,000.0	9,000.0	21,962.9	9,000.0	127.1	126.8	90.00	-12,758.6	-538.6	856.2	605.2	250.95	3.412	
22,100.0	9,000.0	22,062.9	9,000.0	128.0	127.8	90.00	-12,858.6	-539.5	856.2	603.4	252.83	3.387	
22,200.0	9,000.0	22,162.9	9,000.0	129.0	128.8	90.00	-12,958.6	-540.4	856.3	601.6	254.72	3.362	
22,300.0	9,000.0	22,262.9	9,000.0	129.9	129.7	90.00	-13,058.6	-541.3	856.4	599.7	256.60	3.337	
22,400.0	9,000.0	22,362.9	9,000.0	130.9	130.7	90.00	-13,158.6	-542.2	856.4	597.9	258.49	3.313	
22,500.0	9,000.0	22,462.9	9,000.0	131.9	131.6	90.00	-13,258.6	-543.1	856.5	596.1	260.38	3.289	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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		Rule Assigned: Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			No-Go Distance (usft)	
22,600.0	9,000.0	22,562.9	9,000.0	132.8	132.6	90.00	-13,358.5	-543.9	856.5	594.3	262.26	3.266		
22,700.0	9,000.0	22,662.9	9,000.0	133.8	133.5	90.00	-13,458.5	-544.8	856.6	592.5	264.15	3.243		
22,800.0	9,000.0	22,762.9	9,000.0	134.7	134.5	90.00	-13,558.5	-545.7	856.7	590.6	266.04	3.220		
22,900.0	9,000.0	22,862.9	9,000.0	135.7	135.5	90.00	-13,658.5	-546.6	856.7	588.8	267.93	3.198		
23,000.0	9,000.0	22,962.9	9,000.0	136.6	136.4	90.00	-13,758.5	-547.5	856.8	587.0	269.81	3.176		
23,100.0	9,000.0	23,062.9	9,000.0	137.6	137.4	90.00	-13,858.5	-548.4	856.9	585.2	271.70	3.154		
23,200.0	9,000.0	23,162.9	9,000.0	138.6	138.3	90.00	-13,958.5	-549.3	856.9	583.3	273.59	3.132		
23,300.0	9,000.0	23,262.9	9,000.0	139.5	139.3	90.00	-14,058.5	-550.1	857.0	581.5	275.48	3.111		
23,400.0	9,000.0	23,362.9	9,000.0	140.5	140.2	90.00	-14,158.5	-551.0	857.0	579.7	277.37	3.090		
23,500.0	9,000.0	23,462.9	9,000.0	141.4	141.2	90.00	-14,258.5	-551.9	857.1	577.9	279.25	3.069		
23,600.0	9,000.0	23,562.9	9,000.0	142.4	142.1	90.00	-14,358.5	-552.8	857.2	576.0	281.14	3.049		
23,700.0	9,000.0	23,662.9	9,000.0	143.3	143.1	90.00	-14,458.5	-553.7	857.2	574.2	283.03	3.029		
23,800.0	9,000.0	23,762.9	9,000.0	144.3	144.1	90.00	-14,558.5	-554.6	857.3	572.4	284.92	3.009		
23,900.0	9,000.0	23,862.9	9,000.0	145.3	145.0	90.00	-14,658.5	-555.5	857.4	570.6	286.81	2.989 Normal Operations		
24,000.0	9,000.0	23,962.9	9,000.0	146.2	146.0	90.00	-14,758.5	-556.3	857.4	568.7	288.70	2.970 Normal Operations		
24,100.0	9,000.0	24,062.9	9,000.0	147.2	146.9	90.00	-14,858.5	-557.2	857.5	566.9	290.59	2.951 Normal Operations		
24,200.0	9,000.0	24,162.9	9,000.0	148.1	147.9	90.00	-14,958.5	-558.1	857.6	565.1	292.48	2.932 Normal Operations		
24,300.0	9,000.0	24,262.9	9,000.0	149.1	148.9	90.00	-15,058.5	-559.0	857.6	563.2	294.37	2.913 Normal Operations		
24,400.0	9,000.0	24,362.9	9,000.0	150.0	149.8	90.00	-15,158.5	-559.9	857.7	561.4	296.26	2.895 Normal Operations		
24,400.4	9,000.0	24,363.3	9,000.0	150.0	149.8	90.00	-15,158.9	-559.9	857.7	561.4	296.27	2.895 Normal Operations		
24,479.7	9,000.0	24,424.2	9,000.0	150.8	150.4	90.00	-15,219.8	-560.4	857.9	560.4	297.52	2.884 Normal Operations, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 501H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 6969-r.5 MWD+IFR1+MS, 8009-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	3.0	179.08	-149.9	2.4	150.0				
100.0	100.0	95.0	95.0	0.8	3.0	179.16	-150.1	2.2	150.1	145.3	4.86	30.871	
200.0	200.0	194.8	194.8	1.4	3.1	179.36	-150.5	1.7	150.5	145.3	5.21	28.864	
300.0	300.0	296.1	296.0	1.9	3.1	179.69	-150.7	0.8	150.7	145.1	5.54	27.181	
400.0	400.0	396.3	396.3	2.2	3.1	-179.89	-150.2	-0.3	150.2	144.4	5.85	25.676	
500.0	500.0	496.2	496.2	2.6	3.2	-179.41	-149.8	-1.5	149.8	143.6	6.14	24.378	
600.0	600.0	600.7	600.6	2.8	3.2	-179.45	-148.2	-1.4	148.3	141.8	6.43	23.049	
700.0	700.0	705.1	704.8	3.1	3.2	178.73	-142.9	3.2	143.2	136.5	6.71	21.338	
800.0	800.0	807.7	806.7	3.3	3.2	175.08	-134.6	11.6	135.6	128.6	6.99	19.407	
900.0	900.0	908.2	906.2	3.6	3.3	170.01	-125.0	22.0	127.3	120.1	7.26	17.549	
1,000.0	1,000.0	1,008.3	1,004.5	3.8	3.3	162.10	-113.2	36.6	119.3	111.8	7.52	15.871	
1,100.0	1,100.0	1,107.0	1,100.8	4.0	3.4	151.73	-99.4	53.5	113.0	105.3	7.76	14.556	
1,200.0	1,200.0	1,204.6	1,195.7	4.2	3.4	140.00	-84.8	71.2	110.7	102.7	7.99	13.851 CC	
1,204.4	1,204.4	1,209.0	1,199.9	4.2	3.5	139.48	-84.2	72.0	110.7	102.7	8.00	13.835 ES	
1,300.0	1,300.0	1,302.7	1,291.2	4.4	3.5	128.64	-70.3	87.9	112.7	104.5	8.21	13.719	
1,400.0	1,400.0	1,398.5	1,384.4	4.6	3.6	118.07	-55.9	104.8	119.3	110.9	8.43	14.153	
1,500.0	1,500.0	1,494.3	1,477.4	4.7	3.7	108.71	-41.6	123.0	131.1	122.4	8.66	15.145	
1,600.0	1,600.0	1,592.5	1,572.8	5.0	3.8	53.48	-28.1	141.7	145.2	136.3	8.94	16.236	
1,700.0	1,699.8	1,692.0	1,669.8	5.3	3.9	48.84	-15.2	159.6	157.8	148.5	9.27	17.026	
1,800.0	1,799.5	1,788.8	1,764.1	5.6	4.1	45.55	-1.8	177.5	169.1	159.5	9.60	17.615	
1,900.0	1,898.7	1,887.1	1,859.3	5.9	4.2	43.02	12.9	196.6	179.4	169.4	9.98	17.983	
2,000.0	1,997.5	1,986.1	1,955.3	6.2	4.3	41.73	26.8	216.3	187.8	177.4	10.37	18.105	
2,100.0	2,095.6	2,091.3	2,057.7	6.5	4.5	41.52	40.7	236.2	192.6	181.8	10.81	17.813	
2,133.6	2,128.4	2,128.6	2,094.1	6.6	4.6	41.63	45.6	242.3	192.8	181.9	10.92	17.654	
2,200.0	2,193.2	2,199.5	2,163.6	6.8	4.7	41.68	55.9	252.3	191.3	180.1	11.15	17.154	
2,300.0	2,290.8	2,300.7	2,263.0	7.1	4.8	41.83	70.2	265.0	187.4	175.8	11.53	16.244	
2,400.0	2,388.4	2,396.6	2,356.8	7.4	5.0	41.65	84.9	278.2	184.9	172.9	11.93	15.497	
2,500.0	2,485.9	2,496.1	2,453.9	7.8	5.2	41.23	100.8	292.8	183.2	170.8	12.37	14.811	
2,600.0	2,583.5	2,594.0	2,549.0	8.1	5.3	40.01	119.0	307.9	182.5	169.6	12.86	14.187	
2,700.0	2,681.1	2,696.0	2,647.8	8.5	5.5	38.54	138.5	323.7	181.9	168.5	13.42	13.557	
2,800.0	2,778.6	2,797.1	2,746.1	8.9	5.7	37.27	157.2	338.1	180.2	166.2	13.97	12.892	
2,892.0	2,868.4	2,885.8	2,832.2	9.2	5.9	36.00	174.1	351.0	179.0	164.5	14.50	12.345	
2,900.0	2,876.2	2,893.4	2,839.6	9.3	5.9	35.85	175.6	352.2	179.0	164.4	14.55	12.305	
3,000.0	2,973.7	2,994.5	2,937.1	9.6	6.1	33.76	196.9	368.3	179.5	164.3	15.21	11.804	
3,100.0	3,071.3	3,099.7	3,039.3	10.1	6.3	32.09	217.1	382.7	177.6	161.7	15.88	11.184	
3,200.0	3,168.9	3,200.9	3,138.1	10.5	6.4	30.76	235.3	394.8	174.0	157.4	16.53	10.525	
3,300.0	3,266.4	3,294.9	3,229.7	10.9	6.6	29.38	252.6	407.0	171.6	154.4	17.18	9.989	
3,317.0	3,283.0	3,311.5	3,245.7	11.0	6.7	29.07	255.9	409.5	171.6	154.3	17.29	9.919	
3,400.0	3,364.0	3,394.9	3,326.5	11.3	6.8	27.52	272.7	422.0	171.6	153.7	17.90	9.586	
3,500.0	3,461.6	3,498.2	3,426.8	11.7	7.0	25.70	292.7	436.2	170.5	151.8	18.65	9.138	
3,596.9	3,556.1	3,591.8	3,517.8	12.1	7.2	24.04	310.7	449.0	169.3	150.0	19.36	8.746	
3,600.0	3,559.1	3,594.9	3,520.8	12.2	7.2	23.98	311.4	449.4	169.3	149.9	19.39	8.735	
3,700.0	3,656.7	3,698.5	3,621.4	12.6	7.4	22.05	331.7	463.7	168.6	148.5	20.18	8.359	
3,764.3	3,719.4	3,759.4	3,680.7	12.9	7.5	21.06	343.0	471.8	167.7	147.1	20.64	8.126	
3,788.7	3,743.2	3,781.4	3,702.0	13.0	7.6	20.73	347.2	475.2	167.9	147.1	20.80	8.070	
3,800.0	3,754.3	3,792.1	3,712.4	13.0	7.6	20.57	349.2	476.9	168.1	147.2	20.88	8.050	
3,900.0	3,852.1	3,891.3	3,808.2	13.5	7.8	19.03	368.5	493.5	171.4	149.7	21.68	7.906	
4,000.0	3,950.2	3,992.9	3,906.6	13.9	8.0	17.44	387.7	510.1	175.8	153.4	22.45	7.833	
4,100.0	4,048.7	4,092.8	4,003.5	14.3	8.2	15.89	406.0	526.0	181.5	158.3	23.20	7.823	
4,200.0	4,147.4	4,194.3	4,102.0	14.8	8.4	14.73	423.5	542.9	189.2	165.2	23.93	7.904	
4,300.0	4,246.4	4,300.4	4,205.8	15.2	8.6	13.83	439.3	558.6	195.7	171.0	24.64	7.943	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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:		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
4,400.0	4,345.7	4,401.0	4,304.6	15.6	8.8	13.07	452.9	572.1	202.0	176.7	25.30	7.983			
4,500.0	4,445.1	4,503.0	4,404.8	16.0	9.0	12.25	466.5	585.5	209.8	183.9	25.96	8.084			
4,600.0	4,544.7	4,609.7	4,510.1	16.3	9.2	11.44	479.0	597.0	216.4	189.8	26.58	8.142			
4,700.0	4,644.5	4,712.2	4,611.6	16.7	9.4	10.67	489.7	606.5	222.8	195.7	27.17	8.201			
4,800.0	4,744.3	4,815.1	4,713.7	17.0	9.6	9.93	499.6	615.0	229.7	201.9	27.73	8.282			
4,900.0	4,844.3	4,916.6	4,814.4	17.3	9.8	9.21	508.6	622.5	237.2	208.9	28.26	8.392			
5,000.0	4,944.2	5,018.4	4,915.6	17.6	10.0	8.48	517.3	629.6	245.8	217.1	28.73	8.555			
5,055.8	5,000.0	5,078.9	4,975.9	17.7	10.1	56.16	521.7	633.2	250.6	221.7	28.87	8.682			
5,100.0	5,044.2	5,128.1	5,024.9	17.7	10.2	55.95	524.3	635.4	253.5	224.6	28.90	8.771			
5,200.0	5,144.2	5,238.8	5,135.6	17.8	10.3	55.81	526.9	638.0	256.7	227.8	28.96	8.865			
5,300.0	5,244.2	5,338.6	5,235.3	17.8	10.5	55.75	528.0	639.3	258.4	229.3	29.12	8.873			
5,400.0	5,344.2	5,443.4	5,340.2	17.9	10.6	55.74	528.9	640.5	259.9	230.7	29.21	8.899			
5,500.0	5,444.2	5,546.5	5,443.2	17.9	10.5	56.16	526.7	640.6	258.8	229.6	29.17	8.871			
5,600.0	5,544.2	5,646.2	5,542.9	18.0	10.4	56.58	524.5	640.7	257.6	228.4	29.18	8.828			
5,700.0	5,644.2	5,746.7	5,643.4	18.0	10.3	57.02	522.2	640.8	256.4	227.2	29.18	8.788			
5,800.0	5,744.2	5,846.7	5,743.4	18.1	10.2	57.43	519.9	640.6	255.0	225.9	29.18	8.742			
5,900.0	5,844.2	5,946.8	5,843.4	18.2	10.1	57.68	518.1	639.9	253.5	224.4	29.17	8.692			
6,000.0	5,944.2	6,046.9	5,943.5	18.2	10.0	57.75	517.1	638.8	252.0	222.9	29.16	8.643			
6,100.0	6,044.2	6,147.0	6,043.6	18.3	9.9	57.65	516.7	637.4	250.7	221.5	29.17	8.594			
6,200.0	6,144.2	6,246.4	6,143.0	18.3	9.9	57.45	516.7	635.8	249.3	220.1	29.20	8.538			
6,300.0	6,244.2	6,348.2	6,244.8	18.4	9.8	57.27	516.5	634.1	247.8	218.6	29.19	8.489			
6,400.0	6,344.2	6,449.1	6,345.6	18.4	9.7	57.24	515.5	632.2	245.6	216.4	29.17	8.418			
6,500.0	6,444.2	6,547.3	6,443.8	18.5	9.6	57.23	514.4	630.4	243.5	214.3	29.20	8.337			
6,600.0	6,544.2	6,645.7	6,542.2	18.6	9.5	57.17	514.0	629.3	242.3	213.0	29.24	8.286			
6,700.0	6,644.2	6,746.0	6,642.5	18.6	9.4	57.09	513.7	628.2	241.3	212.0	29.26	8.247			
6,800.0	6,744.2	6,845.9	6,742.4	18.7	9.3	57.01	513.4	627.1	240.2	210.9	29.28	8.204			
6,900.0	6,844.2	6,945.4	6,841.8	18.7	9.3	56.98	512.9	626.2	239.1	209.8	29.34	8.149			
7,000.0	6,944.2	7,045.8	6,942.3	18.8	9.4	57.10	512.0	625.7	238.2	208.8	29.49	8.080			
7,100.0	7,044.2	7,155.4	7,051.8	18.9	9.6	57.56	509.4	625.2	236.7	207.2	29.49	8.024			
7,200.0	7,144.2	7,297.9	7,191.0	18.9	10.0	62.45	482.4	616.9	221.7	193.2	28.54	7.769			
7,300.0	7,244.2	7,416.0	7,297.1	19.0	10.4	74.40	432.6	604.8	194.6	167.3	27.32	7.122			
7,400.0	7,344.2	7,498.0	7,364.0	19.0	10.5	88.88	385.9	595.8	171.8	145.5	26.29	6.534 SF			
7,450.3	7,394.5	7,532.3	7,390.1	19.1	10.6	96.36	364.0	592.8	168.1	142.4	25.67	6.548			
7,500.0	7,444.2	7,557.0	7,408.3	19.1	10.6	102.02	347.3	591.2	172.1	146.8	25.31	6.802			
7,600.0	7,544.2	7,613.5	7,447.4	19.2	10.8	114.75	306.6	590.6	203.8	179.3	24.47	8.326			
7,700.0	7,644.2	7,660.5	7,476.9	19.2	10.8	124.08	270.0	592.1	258.6	234.2	24.45	10.576			
7,800.0	7,744.2	7,699.0	7,498.7	19.3	10.9	130.58	238.4	594.1	327.6	302.7	24.82	13.195			
7,900.0	7,844.2	7,737.6	7,518.6	19.3	11.0	136.15	205.4	595.9	404.4	379.2	25.20	16.048			
8,000.0	7,944.2	7,767.2	7,532.7	19.4	11.0	139.92	179.4	596.7	486.1	460.4	25.65	18.953			
8,100.0	8,044.2	7,794.0	7,544.3	19.5	11.1	143.00	155.2	597.1	571.5	545.5	26.08	21.919			
8,200.0	8,144.2	7,809.4	7,550.3	19.5	11.1	144.62	141.1	597.2	659.8	633.3	26.50	24.894			
8,300.0	8,244.2	7,825.8	7,556.3	19.6	11.1	146.24	125.8	597.3	750.0	723.1	26.90	27.887			
8,400.0	8,344.2	7,842.0	7,561.9	19.6	11.2	147.72	110.6	597.5	841.9	814.6	27.27	30.872			
8,500.0	8,444.2	7,842.0	7,561.9	19.7	11.2	147.72	110.6	597.5	935.1	907.4	27.64	33.835			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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	0.0	0.0	0.0	3.0	-159.15	-151.0	-57.5	161.6					
100.0	100.0	95.4	95.4	0.8	3.0	-159.08	-151.2	-57.8	161.9	157.0	4.86	33.303		
200.0	200.0	196.3	196.3	1.4	3.1	-158.91	-151.3	-58.3	162.1	156.9	5.21	31.117		
300.0	300.0	296.9	296.9	1.9	3.1	-158.85	-151.0	-58.4	161.9	156.3	5.54	29.245		
400.0	400.0	396.7	396.7	2.2	3.4	-158.73	-150.5	-58.6	161.5	155.4	6.14	26.323		
500.0	500.0	496.5	496.5	2.6	4.0	-158.28	-149.9	-59.7	161.4	154.3	7.07	22.833		
537.3	537.3	533.6	533.6	2.7	4.2	-158.03	-149.6	-60.4	161.3	154.0	7.38	21.870		
600.0	600.0	595.8	595.8	2.8	4.3	-157.45	-149.1	-61.9	161.4	153.8	7.64	21.126		
700.0	700.0	696.7	696.6	3.1	4.5	-155.92	-147.6	-65.9	161.6	153.6	8.03	20.126		
800.0	800.0	798.0	797.6	3.3	4.8	-153.28	-143.9	-72.5	161.1	152.7	8.41	19.153		
900.0	900.0	900.3	899.3	3.6	5.2	-149.38	-137.5	-81.4	159.8	151.0	8.78	18.204		
1,000.0	1,000.0	1,003.3	1,001.3	3.8	5.4	-144.40	-127.8	-91.5	157.2	148.1	9.11	17.259		
1,100.0	1,100.0	1,104.4	1,101.1	4.0	5.8	-138.44	-115.1	-102.0	153.9	144.4	9.46	16.262		
1,200.0	1,200.0	1,203.4	1,198.5	4.2	6.1	-131.96	-101.3	-112.7	151.6	141.7	9.82	15.431		
1,292.6	1,292.6	1,295.3	1,288.9	4.4	6.4	-125.70	-88.1	-122.6	150.9	140.7	10.18	14.826 CC		
1,300.0	1,300.0	1,302.7	1,296.2	4.4	6.4	-125.19	-87.0	-123.3	150.9	140.7	10.21	14.783 ES		
1,400.0	1,400.0	1,402.5	1,394.3	4.6	6.7	-118.13	-71.5	-133.8	151.7	141.1	10.63	14.267		
1,500.0	1,500.0	1,503.3	1,493.5	4.7	7.1	-111.66	-56.6	-142.4	153.3	142.2	11.09	13.823		
1,600.0	1,600.0	1,601.1	1,590.0	5.0	7.5	-153.95	-42.0	-149.8	157.3	145.7	11.64	13.515 SF		
1,700.0	1,699.8	1,697.2	1,684.2	5.3	7.9	-148.25	-25.6	-159.5	167.8	155.6	12.23	13.725		
1,800.0	1,799.5	1,796.4	1,780.9	5.6	8.3	-142.83	-6.1	-169.7	182.7	169.9	12.85	14.224		
1,900.0	1,898.7	1,896.3	1,878.1	5.9	8.6	-138.34	15.1	-179.0	200.5	187.0	13.45	14.901		
2,000.0	1,997.5	1,989.6	1,969.1	6.2	9.0	-135.64	33.6	-187.2	221.0	207.0	14.02	15.760		
2,100.0	2,095.6	2,076.9	2,054.0	6.5	9.4	-133.89	51.2	-198.2	247.8	233.3	14.56	17.026		
2,133.6	2,128.4	2,106.1	2,082.2	6.6	9.5	-133.48	57.0	-202.5	258.1	243.4	14.69	17.564		
2,200.0	2,193.2	2,164.0	2,138.2	6.8	9.8	-133.14	68.3	-211.9	279.7	264.7	14.99	18.661		
2,300.0	2,290.8	2,254.1	2,225.2	7.1	10.2	-132.82	85.3	-228.4	314.0	298.5	15.50	20.254		
2,400.0	2,388.4	2,349.4	2,317.2	7.4	10.6	-132.55	103.2	-245.8	348.2	332.1	16.08	21.658		
2,500.0	2,485.9	2,440.9	2,405.3	7.8	11.0	-132.27	120.9	-262.5	382.6	365.9	16.63	22.999		
2,600.0	2,583.5	2,530.6	2,491.3	8.1	11.4	-131.81	139.8	-279.7	417.9	400.7	17.20	24.294		
2,700.0	2,681.1	2,625.2	2,581.9	8.5	11.8	-131.41	159.7	-298.1	453.6	435.7	17.82	25.452		
2,800.0	2,778.6	2,720.5	2,673.5	8.9	12.3	-131.21	178.6	-316.3	488.8	470.3	18.44	26.502		
2,900.0	2,876.2	2,812.0	2,761.5	9.3	12.7	-131.05	196.7	-333.8	524.0	505.0	19.05	27.509		
3,000.0	2,973.7	2,902.0	2,847.5	9.6	13.2	-130.67	216.7	-351.5	560.0	540.4	19.68	28.463		
3,100.0	3,071.3	3,004.9	2,945.8	10.1	13.6	-130.25	239.9	-370.8	595.2	574.8	20.40	29.172		
3,200.0	3,168.9	3,100.0	3,037.5	10.5	14.1	-130.17	258.5	-388.3	629.7	608.7	21.06	29.905		
3,300.0	3,266.4	3,194.9	3,129.1	10.9	14.5	-130.20	276.1	-405.6	664.0	642.3	21.70	30.600		
3,400.0	3,364.0	3,286.5	3,217.2	11.3	15.0	-130.09	294.6	-422.3	698.4	676.1	22.33	31.284		
3,500.0	3,461.6	3,382.0	3,309.1	11.7	15.4	-129.99	313.8	-439.8	733.0	710.0	22.99	31.889		
3,600.0	3,559.1	3,480.6	3,404.3	12.2	15.9	-129.97	332.7	-457.5	767.1	743.4	23.68	32.399		
3,700.0	3,656.7	3,581.2	3,501.0	12.6	16.4	-129.73	354.8	-474.6	800.5	776.1	24.40	32.805		
3,788.7	3,743.2	3,675.8	3,591.7	13.0	16.8	-129.42	376.8	-489.4	829.3	804.3	25.04	33.116		
3,800.0	3,754.3	3,688.7	3,604.1	13.0	16.9	-129.40	379.9	-491.4	832.9	807.8	25.13	33.150		
3,900.0	3,852.1	3,794.7	3,706.0	13.5	17.4	-129.23	404.9	-506.0	863.0	837.1	25.86	33.367		
4,000.0	3,950.2	3,893.3	3,801.3	13.9	17.9	-129.11	426.6	-519.3	891.5	865.0	26.51	33.625		
4,100.0	4,048.7	3,989.2	3,894.2	14.3	18.3	-128.99	446.6	-532.2	918.8	891.7	27.15	33.846		
4,200.0	4,147.4	4,088.7	3,990.8	14.8	18.8	-128.87	466.2	-545.8	945.1	917.3	27.80	33.993		
4,300.0	4,246.4	4,196.4	4,095.9	15.2	19.3	-128.77	484.9	-560.1	969.6	941.1	28.51	34.013		
4,400.0	4,345.7	4,339.2	4,236.1	15.6	19.9	-128.57	507.1	-574.9	989.8	960.4	29.36	33.713		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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)	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	-169.60	-150.4	-27.6	153.0					
100.0	100.0	94.9	94.9	0.8	3.0	-169.41	-150.5	-28.1	153.1	148.3	4.86	31.520		
200.0	200.0	195.2	195.1	1.4	3.1	-168.56	-150.5	-30.5	153.6	148.4	5.20	29.511		
300.0	300.0	294.6	294.5	1.9	3.2	-167.41	-150.5	-33.6	154.3	148.7	5.55	27.815		
400.0	400.0	394.3	394.2	2.2	3.3	-166.05	-150.7	-37.4	155.3	149.4	5.89	26.370		
500.0	500.0	494.3	494.1	2.6	3.5	-164.62	-150.8	-41.5	156.4	150.2	6.23	25.088		
600.0	600.0	594.5	594.2	2.8	3.7	-163.18	-150.9	-45.6	157.6	151.1	6.58	23.942		
700.0	700.0	698.5	698.2	3.1	3.8	-162.77	-150.2	-46.6	157.3	150.4	6.90	22.796		
800.0	800.0	797.8	797.5	3.3	3.8	-162.93	-149.2	-45.8	156.0	148.8	7.20	21.664		
900.0	900.0	897.0	896.6	3.6	3.8	-163.23	-148.8	-44.8	155.4	147.9	7.52	20.655		
1,000.0	1,000.0	997.8	997.4	3.8	3.9	-163.68	-148.4	-43.5	154.7	146.8	7.85	19.703		
1,100.0	1,100.0	1,097.9	1,097.5	4.0	3.9	-164.27	-148.0	-41.7	153.8	145.6	8.18	18.795		
1,200.0	1,200.0	1,198.4	1,198.0	4.2	4.0	-164.86	-147.3	-39.8	152.6	144.0	8.52	17.908		
1,300.0	1,300.0	1,298.6	1,298.2	4.4	4.1	-165.26	-146.3	-38.5	151.3	142.4	8.87	17.054		
1,400.0	1,400.0	1,400.8	1,400.3	4.6	4.3	-165.94	-144.4	-36.2	148.9	139.7	9.24	16.127		
1,500.0	1,500.0	1,503.8	1,503.2	4.7	4.5	-167.17	-141.3	-32.2	145.1	135.5	9.62	15.085		
1,600.0	1,600.0	1,607.4	1,606.6	5.0	4.8	144.09	-135.8	-28.0	140.4	130.3	10.09	13.915		
1,700.0	1,699.8	1,710.3	1,709.0	5.3	5.0	144.82	-127.0	-24.5	135.6	125.0	10.61	12.788		
1,800.0	1,799.5	1,810.3	1,808.6	5.6	5.4	145.89	-118.0	-19.8	132.9	121.7	11.16	11.909		
1,900.0	1,898.7	1,912.8	1,910.3	5.9	5.7	147.96	-107.6	-14.9	132.1	120.3	11.76	11.232		
1,904.4	1,903.1	1,917.2	1,914.7	5.9	5.7	148.08	-107.1	-14.7	132.1	120.3	11.79	11.204 CC, ES		
2,000.0	1,997.5	2,014.5	2,011.2	6.2	6.1	151.97	-94.8	-12.1	132.9	120.4	12.43	10.687		
2,100.0	2,095.6	2,113.4	2,108.9	6.5	6.4	158.67	-79.7	-14.3	137.0	123.9	13.14	10.428 SF		
2,133.6	2,128.4	2,145.7	2,140.8	6.6	6.5	160.97	-74.7	-15.3	139.7	126.3	13.32	10.483		
2,200.0	2,193.2	2,211.0	2,205.3	6.8	6.8	165.44	-64.8	-17.4	146.2	132.5	13.68	10.681		
2,300.0	2,290.8	2,310.5	2,303.3	7.1	7.2	171.96	-48.3	-21.1	156.7	142.5	14.23	11.008		
2,400.0	2,388.4	2,408.5	2,399.8	7.4	7.6	177.59	-31.8	-24.8	168.8	154.1	14.74	11.453		
2,500.0	2,485.9	2,507.1	2,497.0	7.8	8.0	-177.56	-15.1	-28.2	182.0	166.8	15.22	11.958		
2,600.0	2,583.5	2,610.3	2,598.6	8.1	8.4	-173.19	2.9	-31.2	195.6	179.9	15.70	12.460		
2,700.0	2,681.1	2,710.0	2,696.5	8.5	8.8	-169.55	21.7	-31.8	207.5	191.3	16.19	12.817		
2,800.0	2,778.6	2,806.7	2,791.6	8.9	9.3	-166.45	39.5	-32.6	220.5	203.8	16.67	13.228		
2,900.0	2,876.2	2,901.6	2,885.0	9.3	9.7	-163.91	55.9	-34.2	235.3	218.2	17.13	13.733		
3,000.0	2,973.7	3,002.6	2,984.5	9.6	10.2	-161.46	73.4	-36.3	250.9	233.3	17.61	14.248		
3,100.0	3,071.3	3,101.3	3,081.3	10.1	10.6	-158.96	92.5	-38.3	266.1	248.0	18.06	14.730		
3,200.0	3,168.9	3,208.6	3,186.4	10.5	11.1	-156.52	114.0	-38.8	280.1	261.5	18.55	15.097		
3,300.0	3,266.4	3,306.6	3,282.2	10.9	11.6	-154.47	134.2	-37.9	292.9	273.9	19.02	15.397		
3,400.0	3,364.0	3,402.8	3,376.5	11.3	12.1	-152.72	153.5	-37.2	306.5	287.0	19.50	15.719		
3,500.0	3,461.6	3,500.0	3,471.9	11.7	12.5	-151.26	171.9	-37.1	321.2	301.2	19.99	16.069		
3,600.0	3,559.1	3,606.7	3,576.4	12.2	13.0	-149.59	193.7	-36.0	334.8	314.3	20.49	16.335		
3,700.0	3,656.7	3,704.0	3,671.5	12.6	13.5	-148.10	214.2	-34.3	347.8	326.9	20.97	16.585		
3,788.7	3,743.2	3,791.0	3,756.7	13.0	13.9	-147.01	231.5	-32.8	359.8	338.4	21.40	16.812		
3,800.0	3,754.3	3,802.0	3,767.5	13.0	14.0	-146.89	233.7	-32.6	361.4	339.9	21.45	16.845		
3,900.0	3,852.1	3,898.8	3,862.5	13.5	14.5	-145.85	252.3	-31.3	374.6	352.6	21.97	17.048		
4,000.0	3,950.2	3,998.2	3,960.2	13.9	14.9	-144.78	270.8	-30.3	386.9	364.5	22.45	17.236		
4,100.0	4,048.7	4,097.9	4,057.8	14.3	15.4	-143.44	290.8	-29.0	397.6	374.7	22.88	17.378		
4,200.0	4,147.4	4,188.8	4,147.0	14.8	15.9	-142.19	308.7	-28.5	408.0	384.7	23.25	17.546		
4,300.0	4,246.4	4,281.9	4,238.3	15.2	16.3	-140.84	326.8	-29.9	419.2	395.6	23.59	17.768		
4,400.0	4,345.7	4,378.5	4,333.3	15.6	16.8	-139.59	344.0	-32.0	430.1	406.2	23.94	17.965		
4,500.0	4,445.1	4,476.6	4,430.0	16.0	17.3	-138.43	359.9	-34.6	440.4	416.1	24.30	18.125		
4,600.0	4,544.7	4,581.4	4,533.3	16.3	17.8	-137.04	377.3	-36.8	449.1	424.5	24.66	18.212		
4,700.0	4,644.5	4,686.9	4,637.1	16.7	18.3	-135.33	396.2	-37.4	455.4	430.4	24.98	18.231		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	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)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,744.3	4,786.3	4,734.7	17.0	18.8	-133.48	415.0	-37.1	460.1	434.8	25.23	18.233	
4,900.0	4,844.3	4,885.3	4,832.1	17.3	19.3	-131.57	433.3	-36.7	463.8	438.3	25.46	18.214	
5,000.0	4,944.2	4,982.9	4,928.1	17.6	19.8	-129.62	450.8	-36.4	467.1	441.5	25.67	18.196	
5,055.8	5,000.0	5,038.8	4,983.1	17.7	20.0	-80.43	460.6	-36.4	468.8	443.1	25.75	18.208	
5,100.0	5,044.2	5,082.3	5,026.0	17.7	20.2	-79.53	468.0	-36.4	470.1	444.3	25.79	18.226	
5,200.0	5,144.2	5,182.8	5,125.1	17.8	20.7	-77.52	484.8	-35.9	473.0	447.0	25.97	18.212	
5,300.0	5,244.2	5,281.7	5,222.7	17.8	21.2	-75.64	500.7	-35.4	476.3	450.1	26.19	18.184	
5,400.0	5,344.2	5,386.5	5,326.5	17.9	21.7	-74.01	514.6	-34.7	479.2	452.7	26.48	18.095	
5,500.0	5,444.2	5,486.4	5,425.7	17.9	22.2	-72.67	526.1	-34.4	482.1	455.4	26.78	18.004	
5,600.0	5,544.2	5,586.0	5,524.8	18.0	22.6	-71.51	536.4	-34.2	485.2	458.1	27.11	17.901	
5,700.0	5,644.2	5,687.2	5,625.6	18.0	23.1	-70.49	545.6	-34.4	488.4	460.9	27.46	17.786	
5,800.0	5,744.2	5,785.8	5,723.9	18.1	23.5	-69.64	553.6	-35.0	491.6	463.8	27.82	17.672	
5,900.0	5,844.2	5,887.7	5,825.6	18.2	23.9	-68.95	560.2	-35.8	494.7	466.5	28.20	17.540	
6,000.0	5,944.2	5,987.8	5,925.5	18.2	24.3	-68.39	565.9	-36.8	497.7	469.1	28.59	17.408	
6,100.0	6,044.2	6,088.1	6,025.7	18.3	24.7	-67.94	570.5	-38.1	500.7	471.7	28.99	17.270	
6,200.0	6,144.2	6,189.1	6,126.6	18.3	25.1	-67.64	574.0	-39.7	503.4	474.0	29.40	17.123	
6,300.0	6,244.2	6,290.2	6,227.6	18.4	25.4	-67.42	576.8	-41.2	505.9	476.1	29.81	16.971	
6,400.0	6,344.2	6,391.7	6,329.2	18.4	25.6	-67.37	578.1	-43.2	508.1	477.9	30.23	16.812	
6,500.0	6,444.2	6,492.6	6,430.0	18.5	25.7	-67.49	577.9	-45.5	510.1	479.5	30.61	16.666	
6,600.0	6,544.2	6,593.0	6,530.3	18.6	25.8	-67.64	577.4	-47.8	512.1	481.1	30.99	16.526	
6,700.0	6,644.2	6,692.8	6,630.1	18.6	25.9	-67.77	577.1	-50.4	514.4	483.0	31.38	16.394	
6,800.0	6,744.2	6,792.4	6,729.7	18.7	26.0	-67.91	576.7	-52.7	516.4	484.6	31.76	16.260	
6,900.0	6,844.2	6,893.4	6,830.7	18.7	26.1	-68.06	576.2	-55.0	518.4	486.2	32.14	16.129	
7,000.0	6,944.2	6,993.4	6,930.6	18.8	26.1	-68.23	575.6	-57.4	520.3	487.8	32.51	16.003	
7,100.0	7,044.2	7,092.9	7,030.1	18.9	26.2	-68.39	574.8	-59.7	522.1	489.3	32.88	15.880	
7,200.0	7,144.2	7,193.3	7,130.5	18.9	26.3	-68.58	573.9	-62.0	524.0	490.8	33.24	15.763	
7,300.0	7,244.2	7,293.3	7,232.5	19.0	26.3	-68.78	572.8	-64.1	525.5	491.9	33.56	15.657	
7,400.0	7,344.2	7,393.5	7,332.5	19.0	26.4	-69.14	570.2	-66.7	527.0	493.1	33.84	15.572	
7,500.0	7,444.2	7,500.9	7,437.7	19.1	26.6	-69.92	563.9	-70.3	528.1	494.1	33.96	15.552	
7,600.0	7,544.2	7,622.3	7,556.0	19.2	26.7	-72.75	538.9	-77.8	527.4	493.7	33.76	15.621	
7,700.0	7,644.2	7,788.8	7,702.1	19.2	26.9	-81.27	460.7	-82.4	517.8	484.4	33.39	15.506	
7,800.0	7,744.2	7,877.3	7,769.2	19.3	27.0	-87.70	402.9	-81.6	508.5	474.9	33.62	15.126	
7,869.0	7,813.3	7,934.3	7,809.2	19.3	27.0	-92.29	362.4	-80.4	506.5	472.6	33.87	14.956	
7,900.0	7,844.2	7,957.1	7,823.8	19.3	27.0	-94.26	345.0	-79.6	507.0	473.0	33.98	14.921	
8,000.0	7,944.2	8,012.1	7,856.1	19.4	27.1	-99.27	300.5	-77.3	516.5	482.4	34.10	15.150	
8,100.0	8,044.2	8,049.0	7,875.6	19.5	27.1	-102.74	269.3	-75.8	539.8	506.0	33.79	15.974	
8,200.0	8,144.2	8,087.9	7,894.9	19.5	27.1	-106.39	235.5	-74.5	576.2	542.8	33.39	17.257	
8,300.0	8,244.2	8,119.7	7,909.4	19.6	27.1	-109.34	207.3	-73.8	624.2	591.3	32.87	18.988	
8,400.0	8,344.2	8,144.0	7,919.6	19.6	27.1	-111.60	185.1	-73.0	681.6	649.3	32.32	21.089	
8,500.0	8,444.2	8,171.5	7,930.0	19.7	27.2	-114.14	159.7	-71.8	746.7	714.7	31.94	23.379	
8,578.3	8,522.5	8,192.0	7,937.1	19.7	27.2	-115.99	140.5	-70.8	801.9	770.2	31.71	25.289	
8,600.0	8,544.2	8,192.0	7,937.1	19.7	27.2	61.11	140.5	-70.8	817.6	786.2	31.39	26.046	
8,625.0	8,569.2	8,192.0	7,937.1	19.8	27.2	58.41	140.5	-70.8	835.7	804.4	31.25	26.740	
8,650.0	8,594.0	8,203.9	7,941.0	19.8	27.2	54.95	129.3	-70.1	853.4	822.2	31.24	27.318	
8,675.0	8,618.6	8,210.0	7,942.8	19.8	27.2	52.15	123.5	-69.7	871.0	839.8	31.17	27.946	
8,700.0	8,642.9	8,216.4	7,944.8	19.8	27.2	49.51	117.4	-69.3	888.2	857.1	31.10	28.563	
8,725.0	8,666.9	8,223.2	7,946.7	19.8	27.2	47.06	111.0	-68.8	905.2	874.1	31.03	29.167	
8,750.0	8,690.6	8,239.0	7,951.1	19.8	27.2	44.34	95.8	-67.7	921.8	890.7	31.05	29.684	
8,775.0	8,713.7	8,239.0	7,951.1	19.8	27.2	42.62	95.8	-67.7	937.8	906.9	30.94	30.312	
8,800.0	8,736.4	8,239.0	7,951.1	19.8	27.2	41.01	95.8	-67.7	953.5	922.6	30.84	30.920	
8,825.0	8,758.4	8,254.6	7,955.0	19.8	27.2	38.91	80.7	-66.5	968.5	937.7	30.85	31.390	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 520H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	26-r.5 SDI_KPR_ADK, 7433-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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	
8,850.0	8,779.8	8,263.7	7,957.1	19.8	27.2	37.26	71.9	-65.8	983.1	952.3	30.83	31.888	
8,875.0	8,800.5	8,273.0	7,959.2	19.8	27.2	35.75	62.9	-65.0	997.0	966.2	30.81	32.360	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 0.0 usft	
Measured Depth	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	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	0.0	0.0	0.0	0.0	-12.23	149.5	-32.4	153.0					
100.0	100.0	95.4	95.4	0.8	0.7	-12.23	149.5	-32.4	153.0	151.0	1.99	76.943		
200.0	200.0	195.4	195.4	1.4	1.4	-12.23	149.5	-32.4	153.0	149.7	3.31	46.179		
300.0	300.0	295.4	295.4	1.9	1.9	-12.23	149.5	-32.4	153.0	148.8	4.21	36.367		
400.0	400.0	395.4	395.4	2.2	2.2	-12.23	149.5	-32.4	153.0	148.0	4.93	31.049		
500.0	500.0	495.4	495.4	2.6	2.5	-12.23	149.5	-32.4	153.0	147.4	5.55	27.562		
600.0	600.0	595.4	595.4	2.8	2.8	-12.23	149.5	-32.4	153.0	146.9	6.11	25.041		
700.0	700.0	695.4	695.4	3.1	3.1	-12.23	149.5	-32.4	153.0	146.3	6.62	23.105		
800.0	800.0	795.4	795.4	3.3	3.3	-12.23	149.5	-32.4	153.0	145.9	7.10	21.554		
900.0	900.0	895.4	895.4	3.6	3.6	-12.23	149.5	-32.4	153.0	145.4	7.54	20.275		
1,000.0	1,000.0	995.4	995.4	3.8	3.8	-12.23	149.5	-32.4	153.0	145.0	7.97	19.196		
1,100.0	1,100.0	1,095.4	1,095.4	4.0	4.0	-12.23	149.5	-32.4	153.0	144.6	8.37	18.268		
1,200.0	1,200.0	1,195.4	1,195.4	4.2	4.2	-12.23	149.5	-32.4	153.0	144.2	8.76	17.459		
1,300.0	1,300.0	1,295.4	1,295.4	4.4	4.4	-12.23	149.5	-32.4	153.0	143.8	9.14	16.745		
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-12.23	149.5	-32.4	153.0	143.5	9.50	16.108		
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-12.23	149.5	-32.4	153.0	143.1	9.85	15.536 CC		
1,600.0	1,600.0	1,591.8	1,591.8	5.0	5.0	-60.45	150.8	-31.6	153.2	143.0	10.25	14.949 ES		
1,700.0	1,699.8	1,688.0	1,687.9	5.3	5.3	-60.86	154.8	-29.2	154.2	143.6	10.64	14.492		
1,800.0	1,799.5	1,784.3	1,783.8	5.6	5.5	-61.52	161.6	-25.2	155.9	144.9	11.03	14.138		
1,900.0	1,898.7	1,880.9	1,879.8	5.9	5.7	-62.41	171.2	-19.5	158.4	147.1	11.35	13.964		
2,000.0	1,997.5	1,980.8	1,978.8	6.2	6.0	-64.09	182.2	-12.9	160.3	148.6	11.69	13.708		
2,100.0	2,095.6	2,080.5	2,077.7	6.5	6.2	-66.88	193.2	-6.4	160.9	148.9	12.04	13.365		
2,133.6	2,128.4	2,113.9	2,110.8	6.6	6.3	-68.07	196.9	-4.2	160.9	148.8	12.11	13.281		
2,152.1	2,146.5	2,132.3	2,129.1	6.7	6.4	-68.76	198.9	-3.0	160.9	148.7	12.16	13.228		
2,200.0	2,193.2	2,179.9	2,176.4	6.8	6.5	-70.54	204.2	0.1	161.0	148.7	12.28	13.105		
2,300.0	2,290.8	2,279.4	2,275.0	7.1	6.8	-74.26	215.1	6.6	161.6	149.1	12.58	12.851		
2,400.0	2,388.4	2,378.8	2,373.6	7.4	7.1	-77.92	226.1	13.1	163.0	150.1	12.86	12.673		
2,500.0	2,485.9	2,478.3	2,472.2	7.8	7.4	-81.52	237.0	19.6	165.0	151.9	13.14	12.561		
2,600.0	2,583.5	2,577.7	2,570.8	8.1	7.7	-85.01	248.0	26.2	167.7	154.3	13.41	12.504		
2,700.0	2,681.1	2,677.2	2,669.5	8.5	8.1	-88.39	258.9	32.7	170.9	157.2	13.68	12.491		
2,800.0	2,778.6	2,776.6	2,768.1	8.9	8.4	-91.62	269.9	39.2	174.8	160.8	13.97	12.512		
2,900.0	2,876.2	2,876.0	2,866.7	9.3	8.8	-94.72	280.9	45.7	179.1	164.9	14.27	12.555		
3,000.0	2,973.7	2,975.5	2,965.3	9.6	9.1	-97.65	291.8	52.2	184.0	169.4	14.59	12.613		
3,100.0	3,071.3	3,074.9	3,064.0	10.1	9.5	-100.43	302.8	58.7	189.3	174.4	14.94	12.677		
3,200.0	3,168.9	3,174.4	3,162.6	10.5	9.8	-103.05	313.7	65.2	195.1	179.8	15.31	12.742		
3,300.0	3,266.4	3,273.8	3,261.2	10.9	10.2	-105.52	324.7	71.8	201.2	185.5	15.72	12.802		
3,400.0	3,364.0	3,373.3	3,359.8	11.3	10.6	-107.84	335.6	78.3	207.7	191.6	16.14	12.872		
3,500.0	3,461.6	3,472.5	3,458.4	11.7	10.9	-110.22	345.9	84.4	214.6	198.0	16.61	12.918		
3,600.0	3,559.1	3,571.4	3,556.7	12.2	11.3	-112.87	354.7	89.6	222.0	204.8	17.16	12.937		
3,700.0	3,656.7	3,669.9	3,654.9	12.6	11.7	-115.77	362.0	93.9	230.1	212.3	17.77	12.944		
3,788.7	3,743.2	3,756.9	3,741.6	13.0	12.0	-118.48	367.3	97.1	238.0	219.6	18.38	12.950		
3,800.0	3,754.3	3,768.0	3,752.7	13.0	12.0	-118.85	367.8	97.4	239.1	220.6	18.45	12.955		
3,900.0	3,852.1	3,865.7	3,850.3	13.5	12.3	-121.93	372.2	100.0	248.6	229.3	19.25	12.915		
4,000.0	3,950.2	3,963.2	3,947.7	13.9	12.6	-124.82	375.2	101.8	258.3	238.2	20.03	12.896		
4,100.0	4,048.7	4,060.5	4,045.0	14.3	12.9	-127.54	376.7	102.7	268.1	247.3	20.82	12.877		
4,200.0	4,147.4	4,158.3	4,142.8	14.8	13.0	-130.10	376.9	102.8	277.9	256.3	21.60	12.867		
4,300.0	4,246.4	4,257.3	4,241.8	15.2	13.1	-132.29	376.9	102.8	287.2	264.9	22.35	12.853		
4,400.0	4,345.7	4,356.6	4,341.1	15.6	13.2	-134.11	376.9	102.8	295.7	272.6	23.04	12.832		
4,500.0	4,445.1	4,456.0	4,440.5	16.0	13.2	-135.59	376.9	102.8	303.1	279.4	23.69	12.798		
4,600.0	4,544.7	4,555.6	4,540.1	16.3	13.3	-136.77	376.9	102.8	309.5	285.2	24.28	12.747		
4,700.0	4,644.5	4,655.4	4,639.9	16.7	13.4	-137.69	376.9	102.8	314.7	289.9	24.82	12.679		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,744.3	4,755.2	4,739.7	17.0	13.5	-138.36	376.9	102.8	318.7	293.4	25.31	12.592	
4,900.0	4,844.3	4,855.2	4,839.7	17.3	13.5	-138.81	376.9	102.8	321.4	295.6	25.73	12.488	
5,000.0	4,944.2	4,955.1	4,939.6	17.6	13.6	-139.03	376.9	102.8	322.7	296.7	26.09	12.371	
5,055.8	5,000.0	5,010.9	4,995.4	17.7	13.6	-91.01	376.9	102.8	323.0	296.7	26.20	12.326	
5,100.0	5,044.2	5,055.1	5,039.6	17.7	13.7	-91.01	376.9	102.8	323.0	296.7	26.25	12.302	
5,200.0	5,144.2	5,155.1	5,139.6	17.8	13.8	-91.01	376.9	102.8	323.0	296.6	26.40	12.233	
5,300.0	5,244.2	5,255.1	5,239.6	17.8	13.8	-91.01	376.9	102.8	323.0	296.4	26.55	12.164	
5,400.0	5,344.2	5,355.1	5,339.6	17.9	13.9	-91.01	376.9	102.8	323.0	296.3	26.70	12.096	
5,500.0	5,444.2	5,455.1	5,439.6	17.9	14.0	-91.01	376.9	102.8	323.0	296.1	26.85	12.029	
5,600.0	5,544.2	5,555.1	5,539.6	18.0	14.1	-91.01	376.9	102.8	323.0	296.0	27.00	11.962	
5,700.0	5,644.2	5,655.1	5,639.6	18.0	14.1	-91.01	376.9	102.8	323.0	295.8	27.15	11.896	
5,800.0	5,744.2	5,755.1	5,739.6	18.1	14.2	-91.01	376.9	102.8	323.0	295.7	27.30	11.831	
5,900.0	5,844.2	5,855.1	5,839.6	18.2	14.3	-91.01	376.9	102.8	323.0	295.5	27.45	11.766	
6,000.0	5,944.2	5,955.1	5,939.6	18.2	14.4	-91.01	376.9	102.8	323.0	295.4	27.60	11.703	
6,100.0	6,044.2	6,055.1	6,039.6	18.3	14.4	-91.01	376.9	102.8	323.0	295.2	27.75	11.639	
6,200.0	6,144.2	6,155.1	6,139.6	18.3	14.5	-91.01	376.9	102.8	323.0	295.1	27.90	11.576	
6,300.0	6,244.2	6,255.1	6,239.6	18.4	14.6	-91.01	376.9	102.8	323.0	294.9	28.05	11.514	
6,400.0	6,344.2	6,355.1	6,339.6	18.4	14.7	-91.01	376.9	102.8	323.0	294.8	28.20	11.453	
6,500.0	6,444.2	6,455.1	6,439.6	18.5	14.7	-91.01	376.9	102.8	323.0	294.6	28.35	11.392	
6,600.0	6,544.2	6,555.1	6,539.6	18.6	14.8	-91.01	376.9	102.8	323.0	294.5	28.50	11.332	
6,700.0	6,644.2	6,655.1	6,639.6	18.6	14.9	-91.01	376.9	102.8	323.0	294.3	28.65	11.272	
6,800.0	6,744.2	6,755.1	6,739.6	18.7	15.0	-91.01	376.9	102.8	323.0	294.1	28.80	11.213	
6,900.0	6,844.2	6,855.1	6,839.6	18.7	15.1	-91.01	376.9	102.8	323.0	294.0	28.95	11.155	
7,000.0	6,944.2	6,955.1	6,939.6	18.8	15.1	-91.01	376.9	102.8	323.0	293.8	29.10	11.097	
7,100.0	7,044.2	7,055.1	7,039.6	18.9	15.2	-91.01	376.9	102.8	323.0	293.7	29.25	11.039	
7,200.0	7,144.2	7,155.1	7,139.6	18.9	15.3	-91.01	376.9	102.8	323.0	293.5	29.41	10.982	
7,300.0	7,244.2	7,255.1	7,239.6	19.0	15.4	-91.01	376.9	102.8	323.0	293.4	29.56	10.926	
7,400.0	7,344.2	7,355.1	7,339.6	19.0	15.4	-91.01	376.9	102.8	323.0	293.2	29.71	10.870	
7,500.0	7,444.2	7,455.1	7,439.6	19.1	15.5	-91.01	376.9	102.8	323.0	293.1	29.86	10.815	
7,600.0	7,544.2	7,555.1	7,539.6	19.2	15.6	-91.01	376.9	102.8	323.0	292.9	30.01	10.760	
7,700.0	7,644.2	7,655.1	7,639.6	19.2	15.7	-91.01	376.9	102.8	323.0	292.8	30.16	10.706	
7,800.0	7,744.2	7,755.1	7,739.6	19.3	15.7	-91.01	376.9	102.8	323.0	292.6	30.32	10.653	
7,900.0	7,844.2	7,855.1	7,839.6	19.3	15.8	-91.01	376.9	102.8	323.0	292.5	30.47	10.599	
8,000.0	7,944.2	7,955.1	7,939.6	19.4	15.9	-91.01	376.9	102.8	323.0	292.3	30.62	10.547	
8,100.0	8,044.2	8,055.1	8,039.6	19.5	16.0	-91.01	376.9	102.8	323.0	292.2	30.77	10.494	
8,200.0	8,144.2	8,155.1	8,139.6	19.5	16.1	-91.01	376.9	102.8	323.0	292.0	30.93	10.443	
8,300.0	8,244.2	8,255.1	8,239.6	19.6	16.1	-91.01	376.9	102.8	323.0	291.9	31.08	10.392	
8,400.0	8,344.2	8,355.1	8,339.6	19.6	16.2	-91.01	376.9	102.8	323.0	291.7	31.23	10.341	
8,500.0	8,444.2	8,455.1	8,439.6	19.7	16.3	-91.01	376.9	102.8	323.0	291.6	31.38	10.290	
8,578.3	8,522.5	8,533.4	8,517.9	19.7	16.4	-91.01	376.9	102.8	323.0	291.5	31.49	10.255	
8,600.0	8,544.2	8,555.1	8,539.6	19.7	16.4	88.61	376.9	102.8	322.9	291.4	31.50	10.252	
8,625.0	8,569.2	8,580.1	8,564.6	19.8	16.4	88.93	376.9	102.8	322.9	291.4	31.47	10.260	
8,650.0	8,594.0	8,604.9	8,589.4	19.8	16.4	89.48	376.9	102.8	322.9	291.5	31.41	10.280	
8,667.7	8,611.4	8,622.4	8,606.8	19.8	16.4	90.00	376.9	102.8	322.8	291.5	31.34	10.303	
8,675.0	8,618.6	8,629.5	8,614.0	19.8	16.4	90.24	376.9	102.8	322.8	291.5	31.30	10.314	
8,700.0	8,642.9	8,653.8	8,638.3	19.8	16.4	91.22	376.9	102.8	322.9	291.8	31.16	10.363	
8,725.0	8,666.9	8,677.8	8,662.3	19.8	16.5	92.37	376.9	102.8	323.1	292.2	30.99	10.429	
8,750.0	8,690.6	8,701.5	8,686.0	19.8	16.5	93.68	376.9	102.8	323.6	292.8	30.78	10.515	
8,775.0	8,713.7	8,724.6	8,709.1	19.8	16.5	95.13	376.9	102.8	324.4	293.9	30.53	10.624	
8,800.0	8,736.4	8,747.3	8,731.8	19.8	16.5	96.67	376.9	102.8	325.6	295.3	30.27	10.758	
8,825.0	8,758.4	8,769.3	8,753.8	19.8	16.5	98.27	376.9	102.8	327.3	297.4	29.97	10.920	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
8,850.0	8,779.8	8,790.7	8,775.2	19.8	16.6	99.90	376.9	102.8	329.7	300.0	29.67	11.113	
8,875.0	8,800.5	8,811.4	8,795.9	19.8	16.6	101.52	376.9	102.8	332.8	303.5	29.35	11.339	
8,900.0	8,820.4	8,831.3	8,815.8	19.9	16.6	103.08	376.9	102.8	336.8	307.8	29.04	11.598	
8,925.0	8,839.6	8,850.5	8,835.0	19.9	16.6	104.55	376.9	102.8	341.8	313.0	28.74	11.891	
8,950.0	8,857.8	8,868.7	8,853.2	19.9	16.6	105.90	376.9	102.8	347.7	319.3	28.46	12.218	
8,975.0	8,875.1	8,886.0	8,870.5	19.9	16.6	107.09	376.9	102.8	354.8	326.6	28.21	12.577	
9,000.0	8,891.5	8,902.4	8,886.9	19.9	16.6	108.08	376.9	102.8	363.1	335.1	28.00	12.966	
9,025.0	8,906.8	8,917.8	8,902.2	19.9	16.7	108.86	376.9	102.8	372.5	344.7	27.83	13.383	
9,050.0	8,921.1	8,932.1	8,916.5	20.0	16.7	109.38	376.9	102.8	383.1	355.4	27.71	13.825	
9,075.0	8,934.4	8,945.3	8,929.8	20.0	16.7	109.63	376.9	102.8	395.0	367.3	27.64	14.290	
9,100.0	8,946.4	8,957.3	8,941.8	20.0	16.7	109.57	376.9	102.8	408.0	380.4	27.61	14.776	
9,125.0	8,957.3	8,968.2	8,952.7	20.0	16.7	109.18	376.9	102.8	422.1	394.5	27.62	15.281	
9,150.0	8,967.1	8,978.0	8,962.5	20.1	16.7	108.43	376.9	102.8	437.3	409.6	27.67	15.804	
9,175.0	8,975.6	8,986.5	8,971.0	20.1	16.7	107.29	376.9	102.8	453.5	425.7	27.75	16.343	
9,200.0	8,982.8	8,993.7	8,978.2	20.1	16.7	105.72	376.9	102.8	470.6	442.7	27.85	16.897	
9,225.0	8,988.8	8,999.7	8,984.2	20.1	16.7	103.70	376.9	102.8	488.5	460.6	27.97	17.466	
9,250.0	8,993.6	9,004.5	8,989.0	20.2	16.7	101.18	376.9	102.8	507.2	479.1	28.10	18.049	
9,275.0	8,997.0	9,007.9	8,992.4	20.2	16.7	98.16	376.9	102.8	526.5	498.3	28.24	18.644	
9,300.0	8,999.1	9,010.0	8,994.5	20.2	16.7	94.62	376.9	102.8	546.4	518.0	28.38	19.251	
9,325.0	9,000.0	9,010.9	8,995.4	20.3	16.7	90.57	376.9	102.8	566.8	538.3	28.53	19.868	
9,328.3	9,000.0	9,010.9	8,995.4	20.3	16.7	90.00	376.9	102.8	569.5	540.9	28.55	19.949	
9,400.0	9,000.0	9,010.9	8,995.4	20.4	16.7	90.00	376.9	102.8	629.9	600.9	28.95	21.759	
9,500.0	9,000.0	9,010.9	8,995.4	20.5	16.7	90.00	376.9	102.8	717.6	688.1	29.47	24.351	
9,600.0	9,000.0	9,010.9	8,995.4	20.7	16.7	90.00	376.9	102.8	808.1	778.2	29.92	27.012	
9,700.0	9,000.0	10,451.4	9,800.0	20.9	18.0	158.14	-463.9	95.9	867.0	829.6	37.38	23.191	
9,800.0	9,000.0	10,551.4	9,800.0	21.2	18.2	158.14	-563.9	95.1	867.0	829.0	37.98	22.825	
9,900.0	9,000.0	10,651.4	9,800.0	21.5	18.5	158.14	-663.9	94.2	867.0	828.3	38.64	22.437	
10,000.0	9,000.0	10,751.4	9,800.0	21.8	18.9	158.14	-763.9	93.4	867.0	827.6	39.35	22.030	
10,100.0	9,000.0	10,851.4	9,800.0	22.1	19.3	158.14	-863.9	92.6	867.0	826.8	40.12	21.611	
10,200.0	9,000.0	10,951.4	9,800.0	22.5	19.8	158.14	-963.9	91.8	867.0	826.0	40.93	21.181	
10,300.0	9,000.0	11,051.4	9,800.0	23.0	20.3	158.14	-1,063.9	90.9	867.0	825.2	41.79	20.745	
10,400.0	9,000.0	11,151.4	9,800.0	23.4	20.9	158.14	-1,163.9	90.1	867.0	824.3	42.69	20.306	
10,500.0	9,000.0	11,251.4	9,800.0	23.9	21.5	158.14	-1,263.9	89.3	867.0	823.3	43.64	19.867	
10,600.0	9,000.0	11,351.4	9,800.0	24.5	22.2	158.14	-1,363.9	88.5	867.0	822.3	44.62	19.429	
10,700.0	9,000.0	11,451.4	9,800.0	25.0	22.9	158.14	-1,463.9	87.6	867.0	821.3	45.64	18.996	
10,800.0	9,000.0	11,551.4	9,800.0	25.6	23.6	158.14	-1,563.9	86.8	867.0	820.3	46.69	18.569	
10,900.0	9,000.0	11,651.4	9,800.0	26.3	24.3	158.14	-1,663.9	86.0	867.0	819.2	47.77	18.148	
11,000.0	9,000.0	11,751.4	9,800.0	26.9	25.1	158.14	-1,763.9	85.2	867.0	818.1	48.88	17.736	
11,100.0	9,000.0	11,851.4	9,800.0	27.6	25.9	158.14	-1,863.9	84.3	867.0	816.9	50.02	17.332	
11,200.0	9,000.0	11,951.4	9,800.0	28.3	26.7	158.14	-1,963.9	83.5	867.0	815.8	51.18	16.938	
11,300.0	9,000.0	12,051.4	9,800.0	29.0	27.5	158.14	-2,063.9	82.7	867.0	814.6	52.37	16.554	
11,400.0	9,000.0	12,151.4	9,800.0	29.7	28.3	158.14	-2,163.9	81.9	867.0	813.4	53.58	16.181	
11,500.0	9,000.0	12,251.4	9,800.0	30.5	29.1	158.14	-2,263.8	81.0	867.0	812.2	54.81	15.818	
11,600.0	9,000.0	12,351.4	9,800.0	31.2	29.9	158.14	-2,363.8	80.2	867.0	810.9	56.06	15.466	
11,700.0	9,000.0	12,451.4	9,800.0	32.0	30.8	158.14	-2,463.8	79.4	867.0	809.6	57.32	15.124	
11,800.0	9,000.0	12,551.4	9,800.0	32.8	31.6	158.14	-2,563.8	78.6	867.0	808.4	58.60	14.793	
11,900.0	9,000.0	12,651.4	9,800.0	33.6	32.5	158.14	-2,663.8	77.8	867.0	807.1	59.90	14.473	
12,000.0	9,000.0	12,751.4	9,800.0	34.4	33.3	158.14	-2,763.8	76.9	867.0	805.7	61.22	14.163	
12,100.0	9,000.0	12,851.4	9,800.0	35.2	34.2	158.14	-2,863.8	76.1	867.0	804.4	62.54	13.862	
12,200.0	9,000.0	12,951.4	9,800.0	36.0	35.1	158.14	-2,963.8	75.3	867.0	803.1	63.88	13.572	
12,300.0	9,000.0	13,051.4	9,800.0	36.9	35.9	158.14	-3,063.8	74.5	867.0	801.7	65.23	13.290	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error: 0.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,400.0	9,000.0	13,151.4	9,800.0	37.7	36.8	158.14	-3,163.8	73.6	867.0	800.4	66.59	13.019		
12,500.0	9,000.0	13,251.4	9,800.0	38.5	37.7	158.14	-3,263.8	72.8	867.0	799.0	67.97	12.756		
12,600.0	9,000.0	13,351.4	9,800.0	39.4	38.6	158.14	-3,363.8	72.0	867.0	797.6	69.35	12.501		
12,700.0	9,000.0	13,451.4	9,800.0	40.2	39.5	158.13	-3,463.8	71.2	867.0	796.2	70.74	12.255		
12,800.0	9,000.0	13,551.4	9,800.0	41.1	40.4	158.13	-3,563.8	70.3	867.0	794.8	72.14	12.017		
12,900.0	9,000.0	13,651.4	9,800.0	42.0	41.3	158.13	-3,663.8	69.5	867.0	793.4	73.55	11.787		
13,000.0	9,000.0	13,751.4	9,800.0	42.9	42.2	158.13	-3,763.8	68.7	867.0	792.0	74.97	11.564		
13,100.0	9,000.0	13,851.4	9,800.0	43.7	43.1	158.13	-3,863.8	67.9	867.0	790.6	76.40	11.348		
13,200.0	9,000.0	13,951.4	9,800.0	44.6	44.0	158.13	-3,963.8	67.0	867.0	789.1	77.83	11.140		
13,300.0	9,000.0	14,051.4	9,800.0	45.5	44.9	158.13	-4,063.8	66.2	867.0	787.7	79.27	10.938		
13,400.0	9,000.0	14,151.4	9,800.0	46.4	45.8	158.13	-4,163.8	65.4	867.0	786.3	80.71	10.742		
13,500.0	9,000.0	14,251.4	9,800.0	47.3	46.7	158.13	-4,263.8	64.6	867.0	784.8	82.16	10.552		
13,600.0	9,000.0	14,351.4	9,800.0	48.2	47.6	158.13	-4,363.8	63.7	867.0	783.4	83.62	10.368		
13,700.0	9,000.0	14,451.4	9,800.0	49.1	48.6	158.13	-4,463.8	62.9	867.0	781.9	85.08	10.190		
13,800.0	9,000.0	14,551.4	9,800.0	50.0	49.5	158.13	-4,563.8	62.1	867.0	780.4	86.54	10.018		
13,900.0	9,000.0	14,651.4	9,800.0	50.9	50.4	158.13	-4,663.8	61.3	867.0	779.0	88.02	9.850		
14,000.0	9,000.0	14,751.4	9,800.0	51.8	51.3	158.13	-4,763.8	60.5	867.0	777.5	89.49	9.688		
14,100.0	9,000.0	14,851.4	9,800.0	52.7	52.2	158.13	-4,863.8	59.6	867.0	776.0	90.97	9.530		
14,200.0	9,000.0	14,951.4	9,800.0	53.6	53.2	158.13	-4,963.8	58.8	867.0	774.5	92.46	9.377		
14,300.0	9,000.0	15,051.4	9,800.0	54.5	54.1	158.13	-5,063.8	58.0	867.0	773.0	93.94	9.229		
14,400.0	9,000.0	15,151.4	9,800.0	55.4	55.0	158.13	-5,163.8	57.2	867.0	771.5	95.44	9.084		
14,500.0	9,000.0	15,251.4	9,800.0	56.3	56.0	158.13	-5,263.7	56.3	867.0	770.0	96.93	8.944		
14,600.0	9,000.0	15,351.4	9,800.0	57.2	56.9	158.13	-5,363.7	55.5	867.0	768.5	98.43	8.808		
14,700.0	9,000.0	15,451.4	9,800.0	58.2	57.8	158.13	-5,463.7	54.7	867.0	767.0	99.93	8.676		
14,800.0	9,000.0	15,551.4	9,800.0	59.1	58.8	158.13	-5,563.7	53.9	867.0	765.5	101.44	8.547		
14,900.0	9,000.0	15,651.4	9,800.0	60.0	59.7	158.13	-5,663.7	53.0	867.0	764.0	102.95	8.422		
15,000.0	9,000.0	15,751.4	9,800.0	60.9	60.6	158.13	-5,763.7	52.2	867.0	762.5	104.46	8.300		
15,100.0	9,000.0	15,851.4	9,800.0	61.8	61.6	158.13	-5,863.7	51.4	867.0	761.0	105.97	8.181		
15,200.0	9,000.0	15,951.4	9,800.0	62.8	62.5	158.13	-5,963.7	50.6	867.0	759.5	107.49	8.066		
15,300.0	9,000.0	16,051.4	9,800.0	63.7	63.4	158.13	-6,063.7	49.7	867.0	758.0	109.01	7.953		
15,400.0	9,000.0	16,151.4	9,800.0	64.6	64.4	158.13	-6,163.7	48.9	867.0	756.4	110.53	7.844		
15,500.0	9,000.0	16,251.4	9,800.0	65.5	65.3	158.13	-6,263.7	48.1	867.0	754.9	112.05	7.737		
15,600.0	9,000.0	16,351.4	9,800.0	66.5	66.3	158.13	-6,363.7	47.3	867.0	753.4	113.58	7.633		
15,700.0	9,000.0	16,451.4	9,800.0	67.4	67.2	158.13	-6,463.7	46.5	867.0	751.9	115.11	7.532		
15,800.0	9,000.0	16,551.4	9,800.0	68.3	68.1	158.13	-6,563.7	45.6	867.0	750.3	116.64	7.433		
15,900.0	9,000.0	16,651.4	9,800.0	69.3	69.1	158.13	-6,663.7	44.8	867.0	748.8	118.17	7.337		
16,000.0	9,000.0	16,751.4	9,800.0	70.2	70.0	158.13	-6,763.7	44.0	867.0	747.3	119.70	7.243		
16,100.0	9,000.0	16,851.4	9,800.0	71.1	71.0	158.13	-6,863.7	43.2	867.0	745.7	121.24	7.151		
16,200.0	9,000.0	16,951.4	9,800.0	72.1	71.9	158.13	-6,963.7	42.3	867.0	744.2	122.77	7.062		
16,300.0	9,000.0	17,051.4	9,800.0	73.0	72.9	158.13	-7,063.7	41.5	867.0	742.7	124.31	6.974		
16,400.0	9,000.0	17,151.4	9,800.0	73.9	73.8	158.13	-7,163.7	40.7	867.0	741.1	125.85	6.889		
16,500.0	9,000.0	17,251.4	9,800.0	74.9	74.7	158.13	-7,263.7	39.9	867.0	739.6	127.40	6.805		
16,600.0	9,000.0	17,351.4	9,800.0	75.8	75.7	158.13	-7,363.7	39.0	867.0	738.0	128.94	6.724		
16,700.0	9,000.0	17,451.4	9,800.0	76.8	76.6	158.13	-7,463.7	38.2	867.0	736.5	130.48	6.644		
16,800.0	9,000.0	17,551.4	9,800.0	77.7	77.6	158.13	-7,563.7	37.4	867.0	734.9	132.03	6.567		
16,900.0	9,000.0	17,651.4	9,800.0	78.6	78.5	158.13	-7,663.7	36.6	867.0	733.4	133.58	6.490		
17,000.0	9,000.0	17,751.4	9,800.0	79.6	79.5	158.13	-7,763.7	35.7	867.0	731.9	135.13	6.416		
17,100.0	9,000.0	17,851.4	9,800.0	80.5	80.4	158.13	-7,863.7	34.9	867.0	730.3	136.68	6.343		
17,200.0	9,000.0	17,951.4	9,800.0	81.5	81.4	158.13	-7,963.7	34.1	867.0	728.8	138.23	6.272		
17,300.0	9,000.0	18,051.4	9,800.0	82.4	82.3	158.13	-8,063.7	33.3	867.0	727.2	139.78	6.202		
17,400.0	9,000.0	18,151.4	9,800.0	83.3	83.3	158.13	-8,163.6	32.4	867.0	725.6	141.34	6.134		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1										Offset Well Error: 0.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
17,500.0	9,000.0	18,251.4	9,800.0	84.3	84.2	158.13	-8,263.6	31.6	867.0	724.1	142.89	6.067		
17,600.0	9,000.0	18,351.4	9,800.0	85.2	85.2	158.13	-8,363.6	30.8	867.0	722.5	144.45	6.002		
17,700.0	9,000.0	18,451.4	9,800.0	86.2	86.1	158.13	-8,463.6	30.0	867.0	721.0	146.00	5.938		
17,800.0	9,000.0	18,551.4	9,800.0	87.1	87.1	158.13	-8,563.6	29.2	867.0	719.4	147.56	5.875		
17,900.0	9,000.0	18,651.4	9,800.0	88.1	88.0	158.13	-8,663.6	28.3	867.0	717.9	149.12	5.814		
18,000.0	9,000.0	18,751.4	9,800.0	89.0	89.0	158.13	-8,763.6	27.5	867.0	716.3	150.68	5.754		
18,100.0	9,000.0	18,851.4	9,800.0	90.0	89.9	158.13	-8,863.6	26.7	867.0	714.7	152.24	5.695		
18,200.0	9,000.0	18,951.4	9,800.0	90.9	90.9	158.13	-8,963.6	25.9	867.0	713.2	153.80	5.637		
18,300.0	9,000.0	19,051.4	9,800.0	91.9	91.8	158.13	-9,063.6	25.0	867.0	711.6	155.37	5.580		
18,400.0	9,000.0	19,151.4	9,800.0	92.8	92.8	158.13	-9,163.6	24.2	867.0	710.1	156.93	5.525		
18,500.0	9,000.0	19,251.4	9,800.0	93.7	93.7	158.13	-9,263.6	23.4	867.0	708.5	158.49	5.470		
18,600.0	9,000.0	19,351.4	9,800.0	94.7	94.7	158.13	-9,363.6	22.6	867.0	706.9	160.06	5.417		
18,700.0	9,000.0	19,451.4	9,800.0	95.6	95.6	158.13	-9,463.6	21.7	867.0	705.4	161.62	5.364		
18,800.0	9,000.0	19,551.4	9,800.0	96.6	96.6	158.13	-9,563.6	20.9	867.0	703.8	163.19	5.313		
18,900.0	9,000.0	19,651.4	9,800.0	97.5	97.6	158.13	-9,663.6	20.1	867.0	702.2	164.76	5.262		
19,000.0	9,000.0	19,751.4	9,800.0	98.5	98.5	158.13	-9,763.6	19.3	867.0	700.7	166.33	5.213		
19,100.0	9,000.0	19,851.4	9,800.0	99.4	99.5	158.13	-9,863.6	18.4	867.0	699.1	167.89	5.164		
19,200.0	9,000.0	19,951.4	9,800.0	100.4	100.4	158.13	-9,963.6	17.6	867.0	697.5	169.46	5.116		
19,300.0	9,000.0	20,051.4	9,800.0	101.3	101.4	158.13	-10,063.6	16.8	867.0	696.0	171.03	5.069		
19,400.0	9,000.0	20,151.4	9,800.0	102.3	102.3	158.13	-10,163.6	16.0	867.0	694.4	172.60	5.023		
19,500.0	9,000.0	20,251.4	9,800.0	103.2	103.3	158.13	-10,263.6	15.1	867.0	692.8	174.17	4.978		
19,600.0	9,000.0	20,351.4	9,800.0	104.2	104.2	158.13	-10,363.6	14.3	867.0	691.2	175.75	4.933		
19,700.0	9,000.0	20,451.4	9,800.0	105.1	105.2	158.13	-10,463.6	13.5	867.0	689.7	177.32	4.889		
19,800.0	9,000.0	20,551.4	9,800.0	106.1	106.1	158.13	-10,563.6	12.7	867.0	688.1	178.89	4.846		
19,900.0	9,000.0	20,651.4	9,800.0	107.0	107.1	158.13	-10,663.6	11.9	867.0	686.5	180.46	4.804		
20,000.0	9,000.0	20,751.4	9,800.0	108.0	108.1	158.13	-10,763.6	11.0	867.0	685.0	182.04	4.763		
20,100.0	9,000.0	20,851.4	9,800.0	109.0	109.0	158.13	-10,863.6	10.2	867.0	683.4	183.61	4.722		
20,200.0	9,000.0	20,951.4	9,800.0	109.9	110.0	158.13	-10,963.6	9.4	867.0	681.8	185.19	4.682		
20,300.0	9,000.0	21,051.4	9,800.0	110.9	110.9	158.13	-11,063.6	8.6	867.0	680.2	186.76	4.642		
20,400.0	9,000.0	21,151.4	9,800.0	111.8	111.9	158.13	-11,163.5	7.7	867.0	678.7	188.34	4.603		
20,500.0	9,000.0	21,251.4	9,800.0	112.8	112.8	158.13	-11,263.5	6.9	867.0	677.1	189.91	4.565		
20,600.0	9,000.0	21,351.4	9,800.0	113.7	113.8	158.13	-11,363.5	6.1	867.0	675.5	191.49	4.528		
20,700.0	9,000.0	21,451.4	9,800.0	114.7	114.7	158.13	-11,463.5	5.3	867.0	673.9	193.07	4.491		
20,800.0	9,000.0	21,551.4	9,800.0	115.6	115.7	158.13	-11,563.5	4.4	867.0	672.3	194.65	4.454		
20,900.0	9,000.0	21,651.4	9,800.0	116.6	116.7	158.13	-11,663.5	3.6	867.0	670.8	196.22	4.418		
21,000.0	9,000.0	21,751.4	9,800.0	117.5	117.6	158.13	-11,763.5	2.8	867.0	669.2	197.80	4.383		
21,100.0	9,000.0	21,851.4	9,800.0	118.5	118.6	158.13	-11,863.5	2.0	867.0	667.6	199.38	4.348		
21,200.0	9,000.0	21,951.4	9,800.0	119.4	119.5	158.13	-11,963.5	1.1	867.0	666.0	200.96	4.314		
21,300.0	9,000.0	22,051.4	9,800.0	120.4	120.5	158.13	-12,063.5	0.3	867.0	664.5	202.54	4.281		
21,400.0	9,000.0	22,151.4	9,800.0	121.3	121.4	158.13	-12,163.5	-0.5	867.0	662.9	204.12	4.247		
21,500.0	9,000.0	22,251.4	9,800.0	122.3	122.4	158.13	-12,263.5	-1.3	867.0	661.3	205.70	4.215		
21,600.0	9,000.0	22,351.4	9,800.0	123.3	123.4	158.13	-12,363.5	-2.1	867.0	659.7	207.28	4.183		
21,700.0	9,000.0	22,451.4	9,800.0	124.2	124.3	158.13	-12,463.5	-3.0	867.0	658.1	208.86	4.151		
21,800.0	9,000.0	22,551.4	9,800.0	125.2	125.3	158.13	-12,563.5	-3.8	867.0	656.6	210.44	4.120		
21,900.0	9,000.0	22,651.4	9,800.0	126.1	126.2	158.13	-12,663.5	-4.6	867.0	655.0	212.02	4.089		
22,000.0	9,000.0	22,751.4	9,800.0	127.1	127.2	158.13	-12,763.5	-5.4	867.0	653.4	213.61	4.059		
22,100.0	9,000.0	22,851.4	9,800.0	128.0	128.2	158.13	-12,863.5	-6.3	867.0	651.8	215.19	4.029		
22,200.0	9,000.0	22,951.4	9,800.0	129.0	129.1	158.13	-12,963.5	-7.1	867.0	650.2	216.77	4.000		
22,300.0	9,000.0	23,051.4	9,800.0	129.9	130.1	158.13	-13,063.5	-7.9	867.0	648.6	218.35	3.971		
22,400.0	9,000.0	23,151.4	9,800.0	130.9	131.0	158.13	-13,163.5	-8.7	867.0	647.1	219.94	3.942		
22,500.0	9,000.0	23,251.4	9,800.0	131.9	132.0	158.13	-13,263.5	-9.6	867.0	645.5	221.52	3.914		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,600.0	9,000.0	23,351.4	9,800.0	132.8	132.9	158.13	-13,363.5	-10.4	867.0	643.9	223.10	3.886	
22,700.0	9,000.0	23,451.4	9,800.0	133.8	133.9	158.13	-13,463.5	-11.2	867.0	642.3	224.69	3.859	
22,800.0	9,000.0	23,551.4	9,800.0	134.7	134.9	158.13	-13,563.5	-12.0	867.0	640.7	226.27	3.832	
22,900.0	9,000.0	23,651.4	9,800.0	135.7	135.8	158.13	-13,663.5	-12.9	867.0	639.1	227.86	3.805	
23,000.0	9,000.0	23,751.4	9,800.0	136.6	136.8	158.13	-13,763.5	-13.7	867.0	637.6	229.44	3.779	
23,100.0	9,000.0	23,851.4	9,800.0	137.6	137.7	158.13	-13,863.5	-14.5	867.0	636.0	231.03	3.753	
23,200.0	9,000.0	23,951.4	9,800.0	138.6	138.7	158.13	-13,963.5	-15.3	867.0	634.4	232.61	3.727	
23,300.0	9,000.0	24,051.4	9,800.0	139.5	139.7	158.13	-14,063.4	-16.2	867.0	632.8	234.20	3.702	
23,400.0	9,000.0	24,151.4	9,800.0	140.5	140.6	158.13	-14,163.4	-17.0	867.0	631.2	235.78	3.677	
23,500.0	9,000.0	24,251.4	9,800.0	141.4	141.6	158.13	-14,263.4	-17.8	867.0	629.6	237.37	3.653	
23,600.0	9,000.0	24,351.4	9,800.0	142.4	142.5	158.13	-14,363.4	-18.6	867.0	628.0	238.96	3.628	
23,700.0	9,000.0	24,451.4	9,800.0	143.3	143.5	158.13	-14,463.4	-19.4	867.0	626.5	240.54	3.604	
23,800.0	9,000.0	24,551.4	9,800.0	144.3	144.5	158.13	-14,563.4	-20.3	867.0	624.9	242.13	3.581	
23,900.0	9,000.0	24,651.4	9,800.0	145.3	145.4	158.13	-14,663.4	-21.1	867.0	623.3	243.72	3.557	
24,000.0	9,000.0	24,751.4	9,800.0	146.2	146.4	158.13	-14,763.4	-21.9	867.0	621.7	245.30	3.534	
24,100.0	9,000.0	24,851.4	9,800.0	147.2	147.3	158.13	-14,863.4	-22.7	867.0	620.1	246.89	3.512	
24,200.0	9,000.0	24,951.4	9,800.0	148.1	148.3	158.13	-14,963.4	-23.6	867.0	618.5	248.48	3.489	
24,300.0	9,000.0	25,051.4	9,800.0	149.1	149.3	158.13	-15,063.4	-24.4	867.0	616.9	250.07	3.467	
24,400.0	9,000.0	25,151.4	9,800.0	150.0	150.2	158.13	-15,163.4	-25.2	867.0	615.4	251.65	3.445	
24,405.7	9,000.0	25,157.0	9,800.0	150.1	150.3	158.13	-15,169.1	-25.3	867.0	615.3	251.74	3.444	
24,479.7	9,000.0	25,222.5	9,800.0	150.8	150.9	158.13	-15,234.5	-25.8	867.0	614.2	252.80	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 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-22.70	148.9	-62.3	161.5				
100.0	100.0	95.4	95.4	0.8	0.7	-22.70	148.9	-62.3	161.4	159.4	1.99	81.186	
200.0	200.0	195.4	195.4	1.4	1.4	-22.70	148.9	-62.3	161.4	158.1	3.31	48.726	
300.0	300.0	295.4	295.4	1.9	1.9	-22.70	148.9	-62.3	161.4	157.2	4.21	38.373	
400.0	400.0	395.4	395.4	2.2	2.2	-22.70	148.9	-62.3	161.4	156.5	4.93	32.761	
500.0	500.0	495.4	495.4	2.6	2.5	-22.70	148.9	-62.3	161.4	155.9	5.55	29.083	
600.0	600.0	595.4	595.4	2.8	2.8	-22.70	148.9	-62.3	161.4	155.3	6.11	26.423	
700.0	700.0	695.4	695.4	3.1	3.1	-22.70	148.9	-62.3	161.4	154.8	6.62	24.379	
800.0	800.0	795.4	795.4	3.3	3.3	-22.70	148.9	-62.3	161.4	154.3	7.10	22.743	
900.0	900.0	895.4	895.4	3.6	3.6	-22.70	148.9	-62.3	161.4	153.9	7.54	21.394	
1,000.0	1,000.0	995.4	995.4	3.8	3.8	-22.70	148.9	-62.3	161.4	153.4	7.97	20.255	
1,100.0	1,100.0	1,095.4	1,095.4	4.0	4.0	-22.70	148.9	-62.3	161.4	153.0	8.37	19.276	
1,200.0	1,200.0	1,195.4	1,195.4	4.2	4.2	-22.70	148.9	-62.3	161.4	152.6	8.76	18.422	
1,300.0	1,300.0	1,295.4	1,295.4	4.4	4.4	-22.70	148.9	-62.3	161.4	152.3	9.14	17.669	
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-22.70	148.9	-62.3	161.4	151.9	9.50	16.997	
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-22.70	148.9	-62.3	161.4	151.6	9.85	16.393 CC	
1,600.0	1,600.0	1,592.3	1,592.3	5.0	5.0	-71.75	149.2	-63.8	161.7	151.5	10.21	15.841 ES	
1,700.0	1,699.8	1,688.6	1,688.4	5.3	5.2	-74.73	150.2	-68.4	163.2	152.7	10.56	15.459	
1,800.0	1,799.5	1,783.8	1,783.3	5.6	5.5	-79.50	151.9	-76.0	166.8	155.9	10.90	15.298 SF	
1,900.0	1,898.7	1,877.4	1,876.4	5.9	5.7	-85.62	154.2	-86.6	173.8	162.6	11.25	15.450	
2,000.0	1,997.5	1,969.1	1,967.0	6.2	5.9	-92.49	157.1	-99.7	185.8	174.2	11.61	16.002	
2,100.0	2,095.6	2,062.1	2,058.6	6.5	6.1	-99.65	160.6	-115.3	203.4	191.4	11.98	16.978	
2,133.6	2,128.4	2,093.7	2,089.7	6.6	6.1	-101.99	161.7	-120.7	210.2	198.2	12.08	17.407	
2,200.0	2,193.2	2,156.0	2,151.1	6.8	6.2	-106.55	164.1	-131.3	225.0	212.7	12.30	18.288	
2,300.0	2,290.8	2,249.9	2,243.6	7.1	6.3	-112.39	167.6	-147.2	249.6	236.9	12.71	19.639	
2,400.0	2,388.4	2,343.8	2,336.0	7.4	6.5	-117.20	171.1	-163.1	276.4	263.2	13.13	21.043	
2,500.0	2,485.9	2,437.6	2,428.5	7.8	6.6	-121.18	174.6	-179.0	304.6	291.1	13.57	22.449	
2,600.0	2,583.5	2,531.5	2,520.9	8.1	6.8	-124.49	178.1	-194.9	334.1	320.1	14.02	23.824	
2,700.0	2,681.1	2,622.5	2,610.5	8.5	7.0	-127.20	181.5	-210.5	364.5	350.1	14.49	25.166	
2,800.0	2,778.6	2,700.0	2,686.5	8.9	7.1	-129.16	184.7	-225.2	397.7	382.8	14.90	26.699	
2,900.0	2,876.2	2,785.3	2,769.7	9.3	7.3	-131.00	188.6	-243.8	433.9	418.5	15.38	28.220	
3,000.0	2,973.7	2,868.7	2,850.5	9.6	7.5	-132.50	192.9	-264.1	472.9	457.1	15.77	29.992	
3,100.0	3,071.3	2,959.8	2,938.6	10.1	7.6	-133.90	197.7	-286.7	512.7	496.4	16.25	31.556	
3,200.0	3,168.9	3,050.9	3,026.6	10.5	7.8	-135.09	202.5	-309.4	552.7	535.9	16.75	33.000	
3,300.0	3,266.4	3,141.9	3,114.7	10.9	7.9	-136.13	207.3	-332.0	592.9	575.6	17.26	34.354	
3,400.0	3,364.0	3,233.0	3,202.8	11.3	8.1	-137.03	212.1	-354.7	633.2	615.4	17.78	35.623	
3,500.0	3,461.6	3,324.1	3,290.9	11.7	8.3	-137.83	216.8	-377.4	673.7	655.4	18.30	36.812	
3,600.0	3,559.1	3,415.2	3,378.9	12.2	8.4	-138.53	221.6	-400.0	714.2	695.4	18.83	37.927	
3,700.0	3,656.7	3,506.2	3,467.0	12.6	8.6	-139.17	226.4	-422.7	754.9	735.5	19.37	38.973	
3,788.7	3,743.2	3,587.0	3,545.1	13.0	8.7	-139.67	230.6	-442.7	790.9	771.1	19.84	39.863	
3,800.0	3,754.3	3,597.3	3,555.1	13.0	8.8	-139.77	231.2	-445.3	795.6	775.7	19.90	39.983	
3,900.0	3,852.1	3,688.7	3,643.5	13.5	8.9	-140.51	236.0	-468.1	835.6	815.1	20.47	40.818	
4,000.0	3,950.2	3,780.8	3,732.6	13.9	9.1	-141.12	240.8	-491.0	874.4	853.4	21.01	41.625	
4,100.0	4,048.7	3,873.4	3,822.1	14.3	9.3	-141.61	245.7	-514.0	911.9	890.4	21.54	42.345	
4,200.0	4,147.4	3,966.5	3,912.2	14.8	9.5	-142.00	250.6	-537.2	948.2	926.2	22.06	42.988	
4,300.0	4,246.4	4,060.2	4,002.8	15.2	9.7	-142.30	255.5	-560.5	983.3	960.7	22.57	43.561	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3161.3usft

Offset Depths are relative to Offset Datum

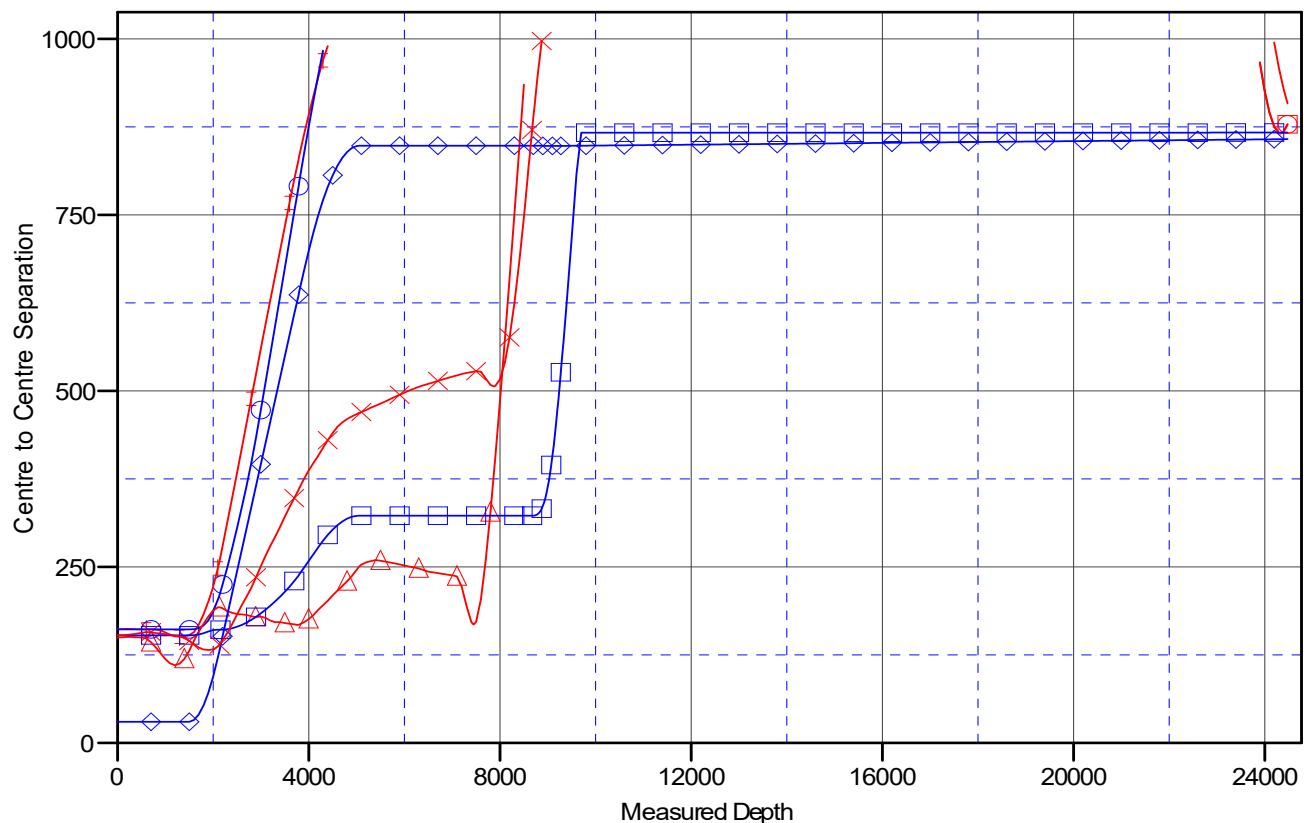
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM 703H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

HH SO 10 15 FED 002 1H, OWB, AWP V0
 HH SO 10 15 FED 002 3H, OWB, AWP V0
 CICADA UNIT 16H, OWB, AWP V0

FLAMING SNAIL FEDERAL COM 502H, OWB, AWP V0
 FLAMING SNAIL FEDERAL COM 803H, OWB, PWP0 V0
 FLAMING SNAIL FEDERAL COM 501H, OWB, AWP V0

FLAMING SNAIL FEDERAL COM #704H, OWB, PWP0 V0
 FLAMING SNAIL FEDERAL COM 802H, OWB, PWP0 V0
 FLAMING SNAIL FEDERAL COM 520H, OWB, AWP V0

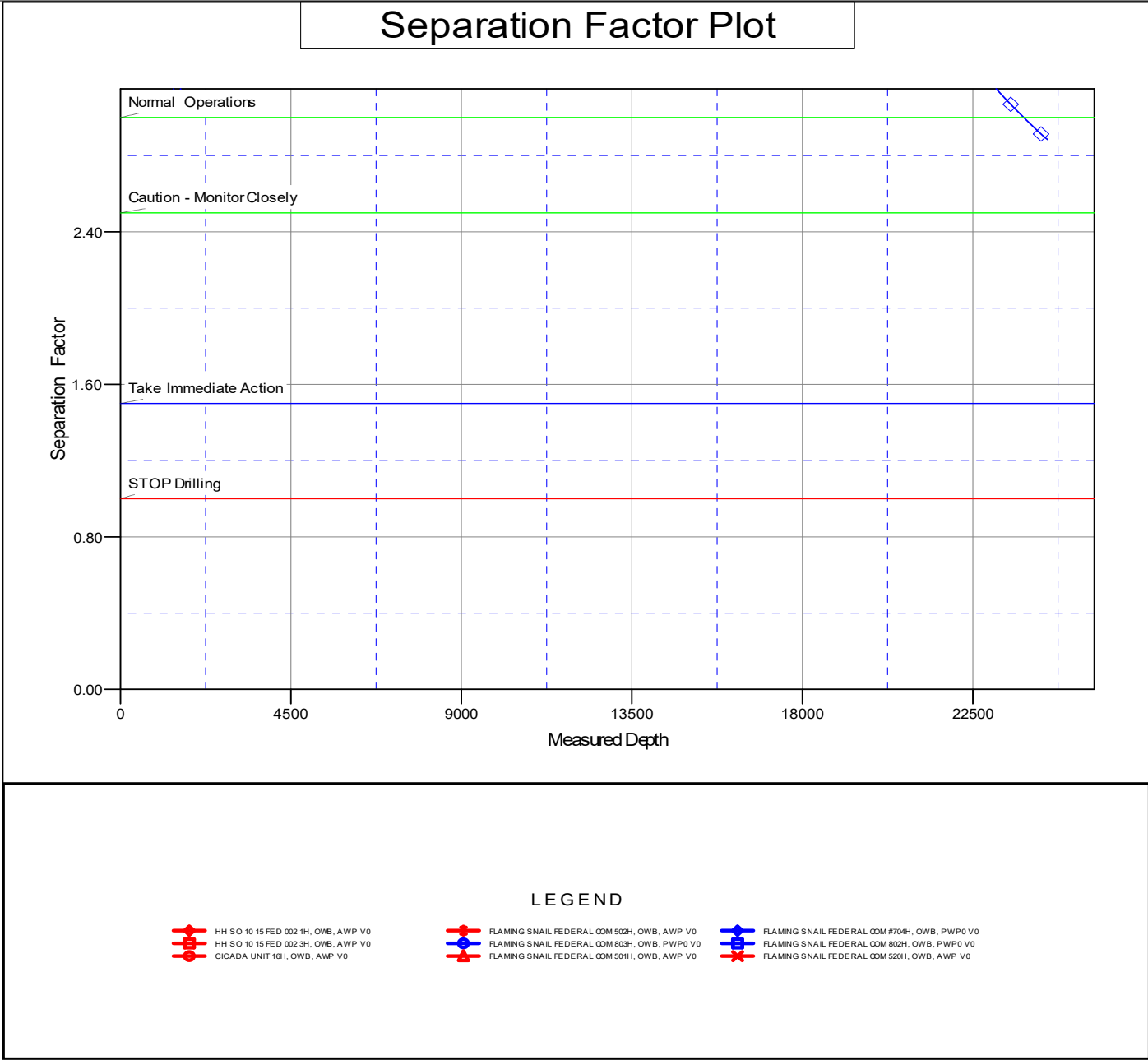
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 703H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3161.3usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM 703H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.08°



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 423476

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 423476
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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