U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

01/30/2025

Well Name: AVION FEDERAL COM

Well Location: T23S / R32E / SEC 22 / NWNE / 32.296676 / -103.658381

County or Parish/State: LEA / NM

Well Number: 702H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM88163

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553595

Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2833107

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/21/2025

Time Sundry Submitted: 02:39

Date proposed operation will begin: 01/21/2025

Procedure Description: COG Operating LLC, respectfully requests approval for the following changes to the original approved APD. SHL Change: Due to another company pipelines being in the way of the original SHL. From: 265' FNL & 1365' FEL Section 22. T23S. R32E. To: 265' FNL & 1345' FEL Section 22. T23S. R32E. C102 Attached. Drilling: Drilling Program, Directional Program, AC Report and Specs Attached.

NOI Attachments

Procedure Description

AVION_FEDERAL_COM_702H_Updated_New_C102_20250121143819.pdf

AVION_FEDERAL_COM_702H_PWP1_DIR_RPT_20250121143814.pdf

AVION_FEDERAL_COM_702H_PWP1_WPLOT_20250121143814.pdf

AVION_FEDERAL_COM_702H_PWP1_AC_RPT_20250121143814.pdf

Avion_Fed_Com_702H_Updated_Drilling_Program_for_Sundry_20250121143814.pdf

5.500_23_P110_CY_TXP_BTC_08192024_20250121143811.pdf

5.500_23_P110_CY_WEDGE_441_08192024_20250121143814.pdf

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Unit or CA Number:

US Well Number: 3002553595

Operator: COG OPERATING LLC

Conditions of Approval

Additional

SEC22_T23S_R32E_AVION_FED_COM_Lea__CONOCOPHILLIPS_COMPANY_45567_JS_20250129105232.pdf

AVION_FED_COM_702H_COAs_20250129105231.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES

Signed on: JAN 21, 2025 02:37 PM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTON **State:** TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera

Street Address: 2208 West Main Street

City: Artesia **State:** NM **Zip:** 88210

Phone: (575)748-6940

Email address: gerald.a.herrera@conocophillips.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 01/29/2025

Signature: Chris Walls

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-53595	98248	WC-025 G-08 S243217P; UPR Wolfcamp
Property Code	**Property Name**	**Well Number**
	AVION FEDERAL COM	702H
OGRID No. 229137	**Operator Name**	**Ground Level Elevation**
	COG OPERATING LLC	3701.9'

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
B	22	23-S	32-E		265 FNL	1345 FEL	32.296676°N	103.658315°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	27	23-S	32-E		50 FSL	1010 FEL	32.268508°N	103.657224°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640	Defining	30-025-53595	N	
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
B	22	23-S	32-E		265 FNL	1345 FEL	32.296676°N	103.658315°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	22	23-S	32-E		100 FNL	1010 FEL	32.297132°N	103.657232°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	27	23-S	32-E		100 FSL	1010 FEL	32.268645°N	103.657224°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
COM		3701.9'

OPERATOR CERTIFICATIONS

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.

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.

Signature: Mayte Reyes Date: 1/21/2025

Printed Name: Mayte Reyes

Email Address: mayte.x.reyes@cop.com

SURVEYOR CERTIFICATIONS

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

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 12/16/24

Signature and Seal of Professional Suveyor

Certificate Number: 17777

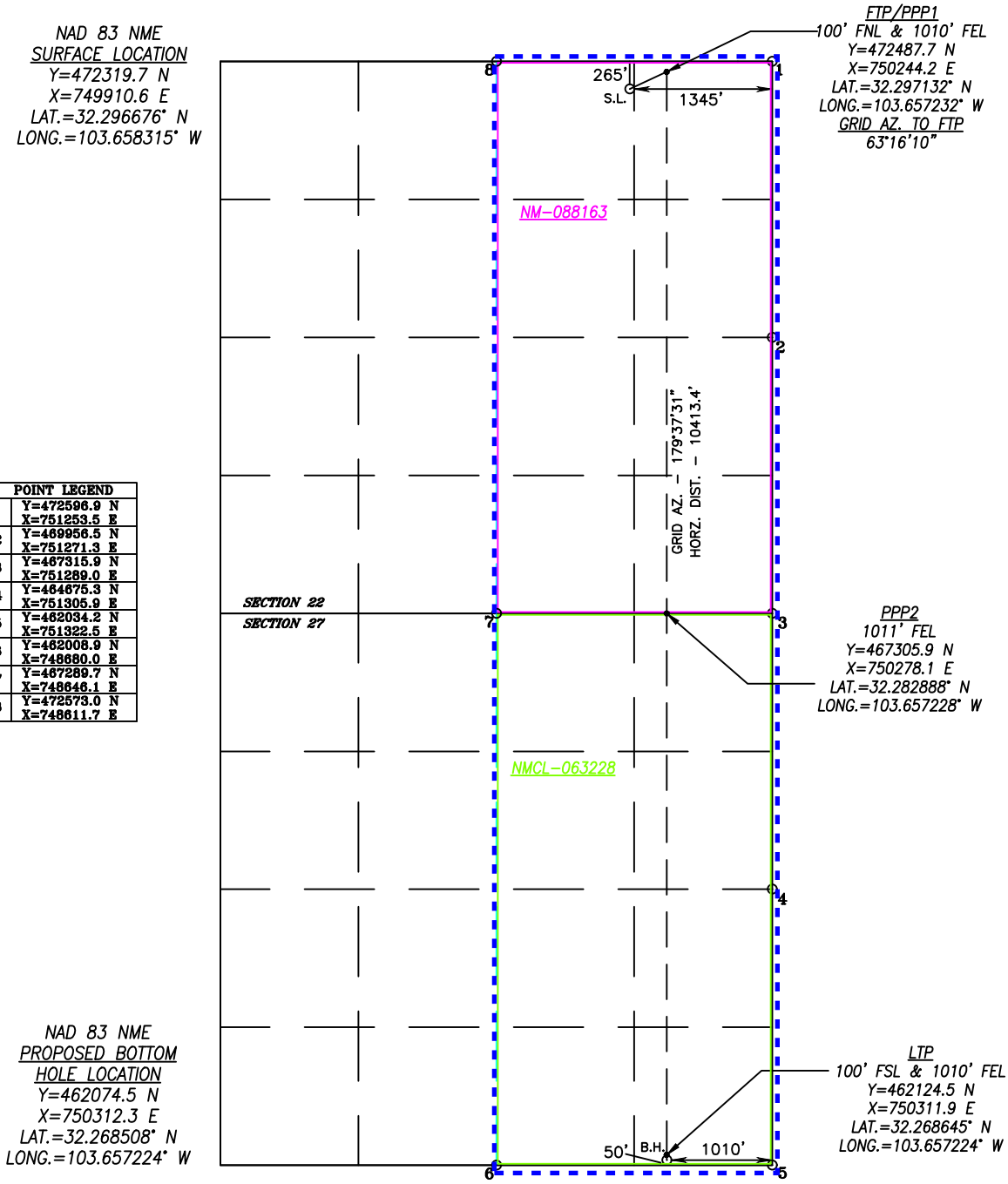
Date of Survey: DECEMBER 10, 2024

W.O.#24-1249 | DRAWN BY: WN | PAGE 1 OF 2

ACREAGE DEDICATION PLATS

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.



POINT LEGEND	
1	Y=472596.9 N X=751253.5 E
2	Y=469956.5 N X=751271.3 E
3	Y=467315.9 N X=751289.0 E
4	Y=464675.3 N X=751305.9 E
5	Y=462034.2 N X=751322.5 E
6	Y=462008.9 N X=748680.0 E
7	Y=467289.7 N X=748646.1 E
8	Y=472573.0 N X=748611.7 E

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ConocoPhillips - Avion Fed Com 702H

1. Geologic Formations

TVD of target	12,396' EOL	Pilot hole depth	NA
MD at TD:	22,682'	Deepest expected fresh water:	713'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1228	Water	
Top of Salt	1699	Salt	
Base of Salt	4695	Salt	
Lamar	4943	Salt Water	
Bell Canyon	5000	Salt Water	
Cherry Canyon	5896	Oil/Gas	
Brushy Canyon	7055	Oil/Gas	
Bone Spring	8795	Oil/Gas	
1st Bone Spring Sand	9907	Oil/Gas	
2nd Bone Spring Sand	10517	Oil/Gas	
3rd Bone Spring Sand	11859	Oil/Gas	
Wolfcamp Sand	12295	Target Oil/Gas	

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	1350	10.75"	45.5	J55	BTC	3.38	1.15	11.64	12.96
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	1.50	1.07	2.98	3.01
8.750"	8200	11825	7.625"	29.7	P110-ICY	W513	1.30	1.62	3.04	1.83
6.75"	0	11625	5.5"	23	P110-CY	BTC	1.92	2.13	2.73	2.73
6.75"	11625	22,682	5.5"	23	P110-CY	W441	1.80	2.13	2.56	2.32
				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

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.

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	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 3rd 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 2nd 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?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1196	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	524	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	642	12.7	1.68	9.09	72	Lead: Class C
	1057	14.5	1.18	5.26	19	Tail: Class H

Intermediate cement job to be performed offline.
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%
Int Stg 1	0’	50%
Int Stg 2	0’	20%
Production	11,325'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	629	15.6	1.216	5.28	6	Stage 1 Lead: Class H
	134	16.2	1.123	4.6	11	Stage 1 Tail: Class H
Bradenhead Stage 2	2500	14.8	1.5	7.2	4	Bradenhead: Thixotropic Class C
	400	14.8	1.33	6.4	5	Top Out: Class C
Prod	642	12.7	1.68	9.09	72	Lead: Class C
	1057	14.5	1.18	5.26	19	Tail: Class H

If conditions dictate, an offline bradenhead cement job will be performed to ensure cement to surface.

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%
BH Stg 1	0’	50%
BH Stg 2	7,055'	151%
Production	11,325'	35% OH in Lateral (KOP to EOL)

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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:
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	2500psi
			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.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.2	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9 - 12.5	35-45	<20

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

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

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
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
N	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8060 psi at 12396' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST
AVION FEDERAL COM PROJECT
AVION FEDERAL COM 702H

OWB
PWP1

Anticollision Report

12 January, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference PWP1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	0.0 to 22,681.5usft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 1/12/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,200.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Con
1,200.0	11,947.0	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr
11,947.0	22,681.5	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
AVION FEDERAL COM PROJECT						
AVION FEDERAL COM 301H - OWB - AWP	9,227.7	9,221.2	696.5	675.8	33.757	CC, ES
AVION FEDERAL COM 301H - OWB - AWP	10,000.0	9,641.0	859.0	832.8	32.792	SF
AVION FEDERAL COM 501H - OWB - PWP1	1,472.4	1,472.0	15.1	7.7	2.049	Caution - Monitor Closely, CC, ES
AVION FEDERAL COM 501H - OWB - PWP1	1,500.0	1,499.5	15.4	7.8	2.022	Caution - Monitor Closely, SF
AVION FEDERAL COM 502H - OWB - PWP1	1,200.0	1,200.0	20.1	13.8	3.203	CC, ES, SF
AVION FEDERAL COM 503H - OWB - PWP1	1,200.0	1,199.0	60.0	53.7	9.564	CC, ES
AVION FEDERAL COM 503H - OWB - PWP1	1,400.0	1,398.8	64.8	57.7	9.214	SF
AVION FEDERAL COM 701H - OWB - PWP1	1,562.4	1,561.0	30.9	23.3	4.042	CC, ES
AVION FEDERAL COM 701H - OWB - PWP1	22,681.5	22,763.3	680.1	499.2	3.760	SF
AVION FEDERAL COM 703H - OWB - PWP1	1,200.0	1,199.0	40.1	33.5	6.074	CC, ES
AVION FEDERAL COM 703H - OWB - PWP1	22,681.5	22,656.9	640.1	459.7	3.549	SF
AVION FEDERAL COM 704H - OWB - PWP1	1,200.0	1,199.0	80.0	73.7	12.752	CC, ES
AVION FEDERAL COM 704H - OWB - PWP1	1,300.0	1,296.3	82.8	76.0	12.301	SF
GRUMPY CAT 15 FEDERAL 213H - OWB - AWP	10,758.5	15,671.0	888.3	756.0	6.713	CC, ES
GRUMPY CAT 15 FEDERAL 213H - OWB - AWP	10,800.0	15,671.0	889.3	756.8	6.712	SF
GRUMPY CAT 15 FEDERAL 214H - OWB - AWP	10,720.9	15,725.0	635.9	505.1	4.862	CC, ES, SF

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 301H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 8911-r.5 MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
2,000.0	1,994.3	1,987.0	1,987.0	5.1	3.7	46.54	-209.8	1,018.3	991.3	982.7	8.63	114.923	
2,100.0	2,093.0	2,085.1	2,085.1	5.3	3.7	47.18	-209.6	1,018.7	980.9	972.0	8.88	110.495	
2,200.0	2,191.8	2,185.1	2,185.1	5.5	3.7	47.84	-209.4	1,019.1	970.5	961.4	9.12	106.366	
2,300.0	2,290.6	2,281.2	2,281.2	5.6	3.8	48.48	-209.1	1,019.6	960.4	951.0	9.37	102.509	
2,400.0	2,389.3	2,380.7	2,380.7	5.8	3.8	49.17	-208.9	1,020.1	950.4	940.8	9.62	98.793	
2,500.0	2,488.1	2,479.0	2,478.9	6.0	3.9	49.85	-208.6	1,020.7	940.7	930.9	9.87	95.317	
2,600.0	2,586.9	2,576.9	2,576.8	6.2	3.9	50.53	-208.1	1,021.4	931.1	921.0	10.11	92.081	
2,700.0	2,685.6	2,676.2	2,676.2	6.4	4.0	51.23	-207.6	1,022.3	921.8	911.5	10.36	89.005	
2,800.0	2,784.4	2,773.9	2,773.9	6.6	4.0	51.92	-206.8	1,023.1	912.6	902.0	10.59	86.145	
2,900.0	2,883.2	2,874.0	2,874.0	6.8	4.1	52.64	-206.1	1,024.2	903.6	892.8	10.83	83.424	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 301H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 8911-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
3,000.0	2,981.9	2,971.3	2,971.3	7.0	4.2	53.34	-205.2	1,025.1	894.7	883.6	11.06	80.876	
3,100.0	3,080.7	3,070.2	3,070.2	7.2	4.2	54.05	-204.1	1,026.3	886.1	874.8	11.29	78.458	
3,200.0	3,179.5	3,168.2	3,168.1	7.4	4.3	54.75	-202.8	1,027.7	877.6	866.1	11.52	76.180	
3,300.0	3,278.2	3,267.4	3,267.3	7.6	4.4	55.48	-201.5	1,029.1	869.3	857.6	11.74	74.017	
3,400.0	3,377.0	3,366.5	3,366.4	7.8	4.5	56.21	-200.2	1,030.5	861.3	849.3	11.97	71.963	
3,500.0	3,475.8	3,465.2	3,465.0	8.0	4.5	56.95	-198.8	1,032.0	853.2	841.1	12.19	70.015	
3,547.2	3,522.4	3,511.9	3,511.8	8.0	4.6	57.30	-198.1	1,032.7	849.6	837.3	12.26	69.322	
3,600.0	3,574.6	3,565.5	3,565.3	8.1	4.6	57.67	-197.4	1,033.4	845.6	833.2	12.33	68.558	
3,700.0	3,673.6	3,664.4	3,664.2	8.3	4.7	58.27	-195.9	1,034.9	838.8	826.3	12.54	66.864	
3,800.0	3,772.9	3,763.6	3,763.3	8.5	4.8	58.79	-194.5	1,036.4	833.0	820.3	12.75	65.334	
3,900.0	3,872.3	3,865.1	3,864.9	8.7	4.9	59.24	-193.1	1,037.8	828.2	815.3	12.95	63.951	
4,000.0	3,972.0	3,969.5	3,969.2	8.9	5.0	59.64	-191.8	1,038.7	824.0	810.8	13.13	62.731	
4,100.0	4,071.7	4,070.9	4,070.6	9.0	5.1	59.96	-190.7	1,038.9	820.2	806.9	13.30	61.682	
4,200.0	4,171.6	4,170.2	4,169.9	9.2	5.1	60.19	-189.9	1,039.0	817.3	803.8	13.45	60.770	
4,300.0	4,271.5	4,267.7	4,267.4	9.4	5.1	60.40	-190.1	1,038.8	815.4	801.8	13.60	59.970	
4,400.0	4,371.5	4,364.7	4,364.4	9.5	5.0	60.54	-190.7	1,038.6	814.8	801.0	13.77	59.179	
4,405.2	4,376.7	4,369.7	4,369.4	9.5	5.0	60.55	-190.8	1,038.6	814.8	801.0	13.77	59.158	
4,447.5	4,419.0	4,409.9	4,409.6	9.6	5.0	120.04	-191.1	1,038.6	814.9	801.1	13.82	58.982	
4,500.0	4,471.5	4,459.4	4,459.2	9.6	5.0	120.07	-191.7	1,038.7	815.3	801.5	13.87	58.786	
4,600.0	4,571.5	4,551.0	4,550.7	9.7	5.0	120.16	-193.4	1,039.3	816.8	802.8	14.04	58.196	
4,700.0	4,671.5	4,649.4	4,649.1	9.8	5.1	120.28	-196.0	1,040.3	819.0	804.8	14.20	57.661	
4,800.0	4,771.5	4,769.6	4,769.2	9.8	5.1	120.39	-198.2	1,040.7	820.2	805.8	14.36	57.125	
4,900.0	4,871.5	4,873.0	4,872.7	9.9	5.0	120.47	-198.8	1,039.5	819.5	805.1	14.46	56.673	
5,000.0	4,971.5	4,973.9	4,973.5	10.0	5.0	120.57	-199.6	1,038.2	818.8	804.2	14.57	56.212	
5,100.0	5,071.5	5,074.0	5,073.6	10.1	4.9	120.66	-200.3	1,036.8	818.0	803.3	14.67	55.753	
5,200.0	5,171.5	5,173.6	5,173.2	10.2	4.8	120.75	-201.0	1,035.5	817.2	802.5	14.78	55.299	
5,300.0	5,271.5	5,276.0	5,275.6	10.3	4.8	120.84	-201.6	1,034.1	816.3	801.4	14.88	54.854	
5,400.0	5,371.5	5,372.9	5,372.5	10.4	4.7	120.92	-202.2	1,032.8	815.5	800.5	14.99	54.402	
5,500.0	5,471.5	5,472.9	5,472.5	10.5	4.7	121.01	-202.9	1,031.5	814.8	799.7	15.10	53.956	
5,600.0	5,571.5	5,573.1	5,572.7	10.6	4.6	121.09	-203.6	1,030.3	814.1	798.9	15.21	53.513	
5,700.0	5,671.5	5,672.6	5,672.2	10.6	4.6	121.18	-204.4	1,029.1	813.4	798.1	15.33	53.072	
5,800.0	5,771.5	5,771.9	5,771.4	10.7	4.6	121.28	-205.2	1,027.9	812.8	797.4	15.44	52.636	
5,900.0	5,871.5	5,874.2	5,873.7	10.8	4.6	121.34	-205.5	1,026.8	812.1	796.5	15.56	52.204	
6,000.0	5,971.5	5,981.7	5,981.2	10.9	4.6	121.15	-202.6	1,027.2	811.0	795.3	15.67	51.740	
6,100.0	6,071.5	6,093.9	6,093.1	11.0	4.6	120.66	-195.0	1,028.0	808.1	792.3	15.80	51.152	
6,200.0	6,171.5	6,210.1	6,208.8	11.1	4.6	120.01	-184.7	1,028.4	803.9	788.0	15.92	50.486	
6,300.0	6,271.5	6,330.1	6,327.6	11.2	4.7	118.94	-167.9	1,028.9	797.2	781.2	16.06	49.637	
6,400.0	6,371.5	6,427.1	6,423.4	11.3	4.7	117.93	-152.2	1,029.3	789.9	773.7	16.20	48.771	
6,500.0	6,471.5	6,525.0	6,520.0	11.3	4.8	116.88	-136.4	1,029.9	782.9	766.5	16.33	47.928	
6,600.0	6,571.5	6,633.9	6,627.5	11.4	4.8	115.71	-118.9	1,030.4	776.1	759.7	16.48	47.091	
6,700.0	6,671.5	6,739.3	6,731.4	11.5	4.9	114.58	-101.6	1,029.1	767.9	751.3	16.63	46.183	
6,800.0	6,771.5	6,834.9	6,825.8	11.6	5.0	113.55	-85.9	1,027.7	759.9	743.1	16.77	45.316	
6,900.0	6,871.5	6,931.4	6,920.9	11.7	5.0	112.49	-70.3	1,026.7	752.5	735.6	16.91	44.497	
7,000.0	6,971.5	7,029.0	7,017.3	11.8	5.1	111.40	-54.7	1,025.9	745.7	728.6	17.06	43.712	
7,100.0	7,071.5	7,125.0	7,112.1	11.9	5.2	110.33	-39.6	1,025.1	739.3	722.0	17.21	42.967	
7,200.0	7,171.5	7,219.2	7,205.2	12.0	5.3	109.34	-25.8	1,024.6	733.7	716.3	17.35	42.285	
7,300.0	7,271.5	7,313.5	7,298.7	12.0	5.4	108.40	-13.0	1,024.3	728.9	711.4	17.50	41.659	
7,400.0	7,371.5	7,406.5	7,391.0	12.1	5.5	107.56	-1.9	1,024.1	725.1	707.5	17.64	41.099	
7,500.0	7,471.5	7,502.2	7,486.2	12.2	5.6	106.76	8.6	1,024.5	722.2	704.4	17.79	40.596	
7,600.0	7,571.5	7,608.5	7,591.9	12.3	5.7	105.87	20.2	1,024.9	719.5	701.6	17.94	40.105	
7,700.0	7,671.5	7,709.1	7,691.4	12.4	5.9	104.79	34.2	1,024.9	715.8	697.7	18.10	39.551	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 301H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 8911-r.5 MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,800.0	7,771.5	7,801.0	7,782.5	12.5	6.0	103.82	46.5	1,025.5	713.1	694.8	18.25	39.068	
7,900.0	7,871.5	7,899.0	7,879.7	12.6	6.1	102.82	59.0	1,026.6	711.2	692.8	18.41	38.631	
8,000.0	7,971.5	7,997.2	7,977.1	12.6	6.3	101.85	71.1	1,027.6	709.6	691.0	18.57	38.214	
8,100.0	8,071.5	8,095.9	8,075.3	12.7	6.4	100.97	82.0	1,028.6	708.3	689.6	18.72	37.830	
8,200.0	8,171.5	8,210.0	8,188.6	12.8	6.6	99.97	94.6	1,028.5	706.3	687.4	18.89	37.395	
8,300.0	8,271.5	8,305.1	8,283.1	12.9	6.7	99.14	105.1	1,027.6	703.6	684.5	19.04	36.954	
8,400.0	8,371.5	8,401.3	8,378.8	13.0	6.8	98.37	114.7	1,027.1	701.5	682.3	19.19	36.557	
8,500.0	8,471.5	8,499.8	8,476.9	13.1	7.0	97.66	123.5	1,026.9	700.0	680.7	19.34	36.197	
8,600.0	8,571.5	8,597.1	8,573.9	13.2	7.1	96.96	132.2	1,027.0	698.9	679.4	19.49	35.859	
8,700.0	8,671.5	8,695.0	8,671.5	13.2	7.2	96.29	140.3	1,027.2	698.2	678.5	19.64	35.546	
8,800.0	8,771.5	8,795.7	8,771.9	13.3	7.4	95.70	147.5	1,027.3	697.5	677.8	19.79	35.249	
8,900.0	8,871.5	8,892.8	8,868.8	13.4	7.5	95.23	153.3	1,027.4	697.1	677.1	19.93	34.973	
8,913.3	8,884.8	8,904.5	8,880.5	13.4	7.5	95.18	153.9	1,027.4	697.1	677.1	19.95	34.939	
9,000.0	8,971.5	8,991.1	8,967.0	13.5	7.6	94.92	157.0	1,027.8	697.2	676.9	20.24	34.448	
9,100.0	9,071.5	9,095.5	9,071.4	13.6	7.7	95.27	152.8	1,027.0	696.7	676.2	20.50	33.984	
9,200.0	9,171.5	9,193.7	9,168.2	13.7	7.9	96.53	137.6	1,025.2	696.5	675.9	20.61	33.799	
9,227.7	9,199.2	9,221.2	9,194.9	13.7	7.9	97.05	131.3	1,024.4	696.5	675.8	20.63	33.757 CC, ES	
9,300.0	9,271.5	9,278.6	9,249.7	13.8	8.1	98.47	114.1	1,022.4	697.0	676.3	20.72	33.644	
9,400.0	9,371.5	9,334.2	9,301.3	13.8	8.2	100.16	93.3	1,022.1	703.0	682.0	20.99	33.485	
9,500.0	9,471.5	9,398.1	9,358.6	13.9	8.3	102.37	65.2	1,024.0	715.5	694.1	21.37	33.480	
9,600.0	9,571.5	9,491.3	9,438.0	14.0	8.5	106.13	16.5	1,025.5	732.2	710.5	21.66	33.797	
9,700.0	9,671.5	9,560.3	9,493.0	14.1	8.7	109.30	-25.0	1,023.6	752.0	729.7	22.27	33.772	
9,800.0	9,771.5	9,594.0	9,517.8	14.2	8.9	111.00	-47.8	1,022.3	779.2	755.8	23.37	33.336	
9,900.0	9,871.5	9,641.0	9,549.1	14.3	9.1	113.52	-82.7	1,021.3	815.1	790.5	24.54	33.213	
10,000.0	9,971.5	9,641.0	9,549.1	14.4	9.1	113.52	-82.7	1,021.3	859.0	832.8	26.20	32.792 SF	
10,100.0	10,071.5	9,671.0	9,566.8	14.4	9.2	115.19	-107.0	1,021.4	910.4	882.8	27.57	33.017	
10,200.0	10,171.5	9,689.0	9,576.5	14.5	9.2	116.21	-122.1	1,021.8	968.5	939.5	28.98	33.419	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 501H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 10558-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.42	0.2	19.9	19.9				
100.0	100.0	100.0	100.0	0.6	0.6	89.42	0.2	19.9	19.9	18.3	1.58	12.572	
200.0	200.0	200.0	200.0	1.1	1.1	89.42	0.2	19.9	19.9	17.4	2.52	7.900	
300.0	300.0	300.0	300.0	1.4	1.4	89.42	0.2	19.9	19.9	16.8	3.14	6.328	
400.0	400.0	400.0	400.0	1.7	1.7	89.42	0.2	19.9	19.9	16.3	3.65	5.454	
500.0	500.0	500.0	500.0	1.9	1.9	89.42	0.2	19.9	19.9	15.8	4.08	4.873	
600.0	600.0	600.0	600.0	2.1	2.1	89.42	0.2	19.9	19.9	15.4	4.47	4.451	
700.0	700.0	700.0	700.0	2.3	2.3	89.42	0.2	19.9	19.9	15.1	4.82	4.125	
800.0	800.0	800.0	800.0	2.5	2.5	89.42	0.2	19.9	19.9	14.8	5.15	3.864	
900.0	900.0	900.0	900.0	2.7	2.7	89.42	0.2	19.9	19.9	14.4	5.46	3.648	
1,000.0	1,000.0	1,000.0	1,000.0	2.9	2.9	89.42	0.2	19.9	19.9	14.2	5.74	3.465	
1,100.0	1,100.0	1,100.0	1,100.0	3.1	3.1	89.42	0.2	19.9	19.9	13.9	6.02	3.308	
1,200.0	1,200.0	1,200.0	1,200.0	3.2	3.2	89.42	0.2	19.9	19.9	13.6	6.28	3.171	
1,300.0	1,300.0	1,300.0	1,300.0	3.5	3.4	53.48	0.2	19.9	18.8	12.2	6.58	2.859	Normal Operations
1,400.0	1,399.8	1,399.8	1,399.8	3.8	3.5	68.51	0.2	19.9	16.3	9.3	6.97	2.330	Caution - Monitor Closely
1,472.4	1,472.0	1,472.0	1,472.0	4.0	3.6	90.00	0.2	19.9	15.1	7.7	7.38	2.049	Caution - Monitor Closely, CC, ES
1,500.0	1,499.5	1,499.5	1,499.5	4.1	3.7	100.25	0.2	19.9	15.4	7.8	7.60	2.022	Caution - Monitor Closely, SF
1,600.0	1,598.7	1,598.7	1,598.7	4.4	3.8	134.38	0.2	19.9	21.2	12.8	8.43	2.520	Normal Operations
1,700.0	1,697.7	1,697.7	1,697.7	4.6	4.0	152.12	0.2	19.9	32.6	23.7	8.89	3.664	
1,800.0	1,796.7	1,796.7	1,796.7	4.8	4.1	149.06	0.2	19.9	45.1	35.8	9.24	4.879	
1,851.5	1,847.6	1,847.6	1,847.6	4.8	4.2	147.77	0.2	19.9	51.8	42.5	9.33	5.550	
1,900.0	1,895.5	1,895.5	1,895.5	4.9	4.3	151.73	0.2	19.9	58.4	49.0	9.41	6.204	
2,000.0	1,994.3	1,994.3	1,994.3	5.1	4.4	157.58	0.2	19.9	72.6	62.9	9.67	7.508	
2,100.0	2,093.0	2,095.5	2,095.5	5.3	4.5	161.04	0.7	21.4	85.9	75.9	10.00	8.594	
2,200.0	2,191.8	2,197.7	2,197.6	5.5	4.7	162.54	2.3	26.4	96.4	86.0	10.42	9.257	
2,300.0	2,290.6	2,300.6	2,300.0	5.6	4.9	162.77	5.2	34.9	103.8	93.0	10.84	9.578	
2,400.0	2,389.3	2,403.8	2,402.5	5.8	5.1	162.01	9.1	46.9	108.1	96.9	11.27	9.599	
2,500.0	2,488.1	2,507.1	2,504.5	6.0	5.3	160.32	14.3	62.4	109.4	97.7	11.68	9.369	
2,600.0	2,586.9	2,608.4	2,604.0	6.2	5.4	157.82	20.3	80.4	108.2	96.3	11.97	9.043	
2,700.0	2,685.6	2,708.3	2,702.0	6.4	5.6	155.21	26.3	98.5	107.0	94.7	12.33	8.682	
2,800.0	2,784.4	2,808.1	2,800.0	6.6	5.8	152.54	32.3	116.6	106.1	93.4	12.68	8.364	
2,900.0	2,883.2	2,908.0	2,898.1	6.8	5.9	149.83	38.3	134.7	105.3	92.3	13.03	8.085	
3,000.0	2,981.9	3,007.9	2,996.1	7.0	6.1	147.08	44.3	152.8	104.8	91.4	13.36	7.842	
3,100.0	3,080.7	3,107.8	3,094.1	7.2	6.3	144.32	50.2	170.9	104.6	90.9	13.69	7.635	
3,155.0	3,135.1	3,162.7	3,148.1	7.3	6.4	142.79	53.5	180.8	104.5	90.6	13.87	7.534	
3,200.0	3,179.5	3,207.6	3,192.2	7.4	6.5	141.55	56.2	189.0	104.5	90.5	14.02	7.459	
3,300.0	3,278.2	3,307.5	3,290.2	7.6	6.6	138.78	62.2	207.1	104.8	90.4	14.33	7.313	
3,400.0	3,377.0	3,407.4	3,388.3	7.8	6.8	136.04	68.2	225.2	105.3	90.6	14.63	7.194	
3,500.0	3,475.8	3,507.2	3,486.3	8.0	7.0	133.32	74.2	243.2	106.0	91.0	14.92	7.100	
3,547.2	3,522.4	3,554.4	3,532.6	8.0	7.1	132.05	77.1	251.8	106.4	91.4	15.03	7.077	
3,600.0	3,574.6	3,607.1	3,584.3	8.1	7.2	130.55	80.2	261.3	106.8	91.6	15.15	7.046	
3,700.0	3,673.6	3,706.9	3,682.3	8.3	7.4	127.18	86.2	279.4	106.9	91.4	15.41	6.935	
3,800.0	3,772.9	3,806.6	3,780.1	8.5	7.6	123.04	92.2	297.5	106.4	90.7	15.63	6.804	
3,900.0	3,872.3	3,906.2	3,877.9	8.7	7.7	118.06	98.2	315.5	105.6	89.8	15.81	6.677	
4,000.0	3,972.0	4,005.6	3,975.5	8.9	7.9	112.20	104.2	333.5	105.0	89.0	15.96	6.576	
4,051.6	4,023.4	4,056.8	4,025.8	9.0	8.0	108.82	107.2	342.8	104.9	88.8	16.03	6.543	
4,100.0	4,071.7	4,104.8	4,072.9	9.0	8.1	105.44	110.1	351.5	105.0	88.9	16.08	6.527	
4,200.0	4,171.6	4,203.8	4,170.0	9.2	8.3	97.89	116.1	369.4	106.2	90.0	16.21	6.553	
4,300.0	4,271.5	4,302.6	4,267.0	9.4	8.5	89.77	122.0	387.3	109.2	92.9	16.37	6.674	
4,400.0	4,371.5	4,401.0	4,363.6	9.5	8.7	81.43	127.9	405.1	114.7	98.1	16.61	6.903	
4,447.5	4,419.0	4,447.7	4,409.4	9.6	8.8	136.97	130.7	413.6	118.2	101.5	16.73	7.065	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 501H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 10558-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,500.0	4,471.5	4,499.2	4,460.0	9.6	8.9	132.78	133.8	422.9	122.8	105.9	16.88	7.272	
4,600.0	4,571.5	4,597.4	4,556.4	9.7	9.1	125.66	139.7	440.7	133.2	115.9	17.27	7.711	
4,700.0	4,671.5	4,695.5	4,652.7	9.8	9.3	119.62	145.6	458.5	145.3	127.6	17.68	8.219	
4,800.0	4,771.5	4,793.7	4,749.1	9.8	9.5	114.54	151.5	476.3	158.9	140.8	18.10	8.777	
4,900.0	4,871.5	4,891.9	4,845.5	9.9	9.7	110.28	157.4	494.0	173.4	154.9	18.51	9.371	
5,000.0	4,971.5	4,990.0	4,941.8	10.0	9.9	106.69	163.3	511.8	188.8	169.9	18.91	9.987	
5,100.0	5,071.5	5,088.2	5,038.2	10.1	10.1	103.64	169.2	529.6	204.8	185.5	19.29	10.617	
5,200.0	5,171.5	5,186.4	5,134.5	10.2	10.3	101.03	175.0	547.4	221.3	201.7	19.66	11.255	
5,300.0	5,271.5	5,284.5	5,230.9	10.3	10.5	98.79	180.9	565.2	238.2	218.2	20.03	11.894	
5,400.0	5,371.5	5,382.7	5,327.3	10.4	10.7	96.84	186.8	582.9	255.4	235.0	20.38	12.531	
5,500.0	5,471.5	5,480.8	5,423.6	10.5	10.9	95.14	192.7	600.7	272.8	252.1	20.73	13.164	
5,600.0	5,571.5	5,579.8	5,520.7	10.6	11.0	93.64	198.7	618.6	290.5	269.4	21.04	13.803	
5,700.0	5,671.5	5,686.0	5,625.3	10.6	11.3	92.33	204.5	636.2	306.7	285.4	21.39	14.339	
5,800.0	5,771.5	5,793.2	5,731.3	10.7	11.5	91.33	209.4	651.1	320.5	298.8	21.73	14.748	
5,900.0	5,871.5	5,901.2	5,838.6	10.8	11.7	90.58	213.5	663.3	331.8	309.7	22.06	15.043	
6,000.0	5,971.5	6,009.8	5,946.8	10.9	11.9	90.04	216.6	672.7	340.4	318.0	22.35	15.227	
6,100.0	6,071.5	6,119.0	6,055.7	11.0	12.1	89.68	218.7	679.1	346.3	323.7	22.63	15.303	
6,200.0	6,171.5	6,228.4	6,165.1	11.1	12.3	89.50	219.9	682.6	349.5	326.6	22.86	15.287	
6,300.0	6,271.5	6,334.8	6,271.5	11.2	12.4	89.46	220.1	683.3	350.1	327.1	23.03	15.204	
6,400.0	6,371.5	6,434.8	6,371.5	11.3	12.5	89.46	220.1	683.3	350.1	326.9	23.18	15.105	
6,500.0	6,471.5	6,534.8	6,471.5	11.3	12.5	89.46	220.1	683.3	350.1	326.8	23.33	15.006	
6,600.0	6,571.5	6,634.8	6,571.5	11.4	12.6	89.46	220.1	683.3	350.1	326.6	23.48	14.909	
6,700.0	6,671.5	6,734.8	6,671.5	11.5	12.7	89.46	220.1	683.3	350.1	326.5	23.64	14.812	
6,800.0	6,771.5	6,834.8	6,771.5	11.6	12.7	89.46	220.1	683.3	350.1	326.3	23.79	14.717	
6,900.0	6,871.5	6,934.8	6,871.5	11.7	12.8	89.46	220.1	683.3	350.1	326.2	23.94	14.623	
7,000.0	6,971.5	7,034.8	6,971.5	11.8	12.9	89.46	220.1	683.3	350.1	326.0	24.10	14.530	
7,100.0	7,071.5	7,134.8	7,071.5	11.9	12.9	89.46	220.1	683.3	350.1	325.9	24.25	14.439	
7,200.0	7,171.5	7,234.8	7,171.5	12.0	13.0	89.46	220.1	683.3	350.1	325.7	24.40	14.348	
7,300.0	7,271.5	7,334.8	7,271.5	12.0	13.1	89.46	220.1	683.3	350.1	325.6	24.56	14.258	
7,400.0	7,371.5	7,434.8	7,371.5	12.1	13.1	89.46	220.1	683.3	350.1	325.4	24.71	14.170	
7,500.0	7,471.5	7,534.8	7,471.5	12.2	13.2	89.46	220.1	683.3	350.1	325.3	24.86	14.082	
7,600.0	7,571.5	7,634.8	7,571.5	12.3	13.3	89.46	220.1	683.3	350.1	325.1	25.02	13.996	
7,700.0	7,671.5	7,734.8	7,671.5	12.4	13.3	89.46	220.1	683.3	350.1	324.9	25.17	13.910	
7,800.0	7,771.5	7,834.8	7,771.5	12.5	13.4	89.46	220.1	683.3	350.1	324.8	25.32	13.826	
7,900.0	7,871.5	7,934.8	7,871.5	12.6	13.5	89.46	220.1	683.3	350.1	324.6	25.48	13.742	
8,000.0	7,971.5	8,034.8	7,971.5	12.6	13.6	89.46	220.1	683.3	350.1	324.5	25.63	13.660	
8,100.0	8,071.5	8,134.8	8,071.5	12.7	13.6	89.46	220.1	683.3	350.1	324.3	25.79	13.578	
8,200.0	8,171.5	8,234.8	8,171.5	12.8	13.7	89.46	220.1	683.3	350.1	324.2	25.94	13.497	
8,300.0	8,271.5	8,334.8	8,271.5	12.9	13.8	89.46	220.1	683.3	350.1	324.0	26.09	13.418	
8,400.0	8,371.5	8,434.8	8,371.5	13.0	13.8	89.46	220.1	683.3	350.1	323.9	26.25	13.339	
8,500.0	8,471.5	8,534.8	8,471.5	13.1	13.9	89.46	220.1	683.3	350.1	323.7	26.40	13.261	
8,600.0	8,571.5	8,634.8	8,571.5	13.2	14.0	89.46	220.1	683.3	350.1	323.6	26.56	13.184	
8,700.0	8,671.5	8,734.8	8,671.5	13.2	14.0	89.46	220.1	683.3	350.1	323.4	26.71	13.107	
8,800.0	8,771.5	8,834.8	8,771.5	13.3	14.1	89.46	220.1	683.3	350.1	323.2	26.87	13.032	
8,900.0	8,871.5	8,934.8	8,871.5	13.4	14.2	89.46	220.1	683.3	350.1	323.1	27.02	12.957	
9,000.0	8,971.5	9,034.8	8,971.5	13.5	14.3	89.46	220.1	683.3	350.1	322.9	27.18	12.884	
9,100.0	9,071.5	9,134.8	9,071.5	13.6	14.3	89.46	220.1	683.3	350.1	322.8	27.33	12.811	
9,200.0	9,171.5	9,234.8	9,171.5	13.7	14.4	89.46	220.1	683.3	350.1	322.6	27.49	12.738	
9,300.0	9,271.5	9,334.8	9,271.5	13.8	14.5	89.46	220.1	683.3	350.1	322.5	27.64	12.667	
9,400.0	9,371.5	9,434.8	9,371.5	13.8	14.5	89.46	220.1	683.3	350.1	322.3	27.80	12.596	
9,500.0	9,471.5	9,534.8	9,471.5	13.9	14.6	89.46	220.1	683.3	350.1	322.2	27.95	12.526	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 501H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 10558-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,600.0	9,571.5	9,634.8	9,571.5	14.0	14.7	89.46	220.1	683.3	350.1	322.0	28.11	12.457	
9,700.0	9,671.5	9,734.8	9,671.5	14.1	14.8	89.46	220.1	683.3	350.1	321.9	28.26	12.389	
9,800.0	9,771.5	9,834.8	9,771.5	14.2	14.8	89.46	220.1	683.3	350.1	321.7	28.42	12.321	
9,900.0	9,871.5	9,934.8	9,871.5	14.3	14.9	89.46	220.1	683.3	350.1	321.5	28.57	12.254	
10,000.0	9,971.5	10,034.8	9,971.5	14.4	15.0	89.46	220.1	683.3	350.1	321.4	28.73	12.188	
10,100.0	10,071.5	10,134.8	10,071.5	14.4	15.0	89.46	220.1	683.3	350.1	321.2	28.88	12.122	
10,200.0	10,171.5	10,234.8	10,171.5	14.5	15.1	89.46	220.1	683.3	350.1	321.1	29.04	12.057	
10,300.0	10,271.5	10,334.8	10,271.5	14.6	15.2	89.46	220.1	683.3	350.1	320.9	29.19	11.993	
10,400.0	10,371.5	10,434.8	10,371.5	14.7	15.3	89.46	220.1	683.3	350.1	320.8	29.35	11.929	
10,500.0	10,471.5	10,534.8	10,471.5	14.8	15.3	89.46	220.1	683.3	350.1	320.6	29.49	11.872	
10,554.3	10,525.8	10,589.1	10,525.8	14.8	15.3	89.63	219.1	683.3	350.1	320.6	29.54	11.851	
10,600.0	10,571.5	10,634.4	10,570.7	14.9	15.3	90.46	214.0	683.3	350.2	320.6	29.56	11.845	
10,700.0	10,671.5	10,727.7	10,660.8	15.0	15.4	94.34	190.2	683.5	351.5	321.9	29.55	11.894	
10,800.0	10,771.5	10,809.3	10,734.5	15.0	15.4	99.93	155.4	683.7	357.8	328.1	29.63	12.073	
10,900.0	10,871.5	10,875.0	10,788.9	15.1	15.4	105.64	118.6	684.0	373.5	343.3	30.21	12.364	
11,000.0	10,971.5	10,933.1	10,832.3	15.2	15.5	111.28	80.1	684.2	401.6	370.2	31.37	12.800	
11,100.0	11,071.5	10,975.0	10,860.6	15.3	15.5	115.51	49.2	684.4	442.6	409.4	33.21	13.327	
11,200.0	11,171.5	11,015.1	10,885.0	15.4	15.6	119.57	17.4	684.6	495.3	460.2	35.08	14.120	
11,300.0	11,271.5	11,050.0	10,904.0	15.5	15.6	123.03	-11.8	684.8	557.6	520.8	36.84	15.136	
11,400.0	11,371.5	11,075.0	10,916.3	15.6	15.6	125.45	-33.6	684.9	627.4	588.9	38.51	16.290	
11,500.0	11,471.5	11,091.2	10,923.7	15.6	15.7	126.97	-48.1	685.0	702.9	662.9	40.04	17.556	
11,600.0	11,571.5	11,109.0	10,931.2	15.7	15.7	128.60	-64.2	685.1	782.8	741.6	41.27	18.966	
11,700.0	11,671.5	11,125.0	10,937.4	15.8	15.7	130.03	-78.9	685.2	866.2	823.8	42.34	20.457	
11,800.0	11,771.5	11,137.4	10,941.9	15.9	15.7	131.11	-90.5	685.3	952.2	908.9	43.30	21.991	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 502H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 9487-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-20.1	20.1				
100.0	100.0	100.0	100.0	0.6	0.6	-90.00	0.0	-20.1	20.1	18.5	1.58	12.698	
200.0	200.0	200.0	200.0	1.1	1.1	-90.00	0.0	-20.1	20.1	17.6	2.52	7.979	
300.0	300.0	300.0	300.0	1.4	1.4	-90.00	0.0	-20.1	20.1	17.0	3.14	6.392	
400.0	400.0	400.0	400.0	1.7	1.7	-90.00	0.0	-20.1	20.1	16.5	3.65	5.508	
500.0	500.0	500.0	500.0	1.9	1.9	-90.00	0.0	-20.1	20.1	16.0	4.08	4.922	
600.0	600.0	600.0	600.0	2.1	2.1	-90.00	0.0	-20.1	20.1	15.6	4.47	4.496	
700.0	700.0	700.0	700.0	2.3	2.3	-90.00	0.0	-20.1	20.1	15.3	4.82	4.167	
800.0	800.0	800.0	800.0	2.5	2.5	-90.00	0.0	-20.1	20.1	14.9	5.15	3.903	
900.0	900.0	900.0	900.0	2.7	2.7	-90.00	0.0	-20.1	20.1	14.6	5.46	3.684	
1,000.0	1,000.0	1,000.0	1,000.0	2.9	2.9	-90.00	0.0	-20.1	20.1	14.4	5.74	3.500	
1,100.0	1,100.0	1,100.0	1,100.0	3.1	3.1	-90.00	0.0	-20.1	20.1	14.1	6.02	3.341	
1,200.0	1,200.0	1,200.0	1,200.0	3.2	3.2	-90.00	0.0	-20.1	20.1	13.8	6.28	3.203	CC, ES, SF
1,300.0	1,300.0	1,300.0	1,300.0	3.5	3.4	-133.59	0.0	-20.1	21.3	14.7	6.60	3.222	
1,400.0	1,399.8	1,399.8	1,399.8	3.8	3.5	-142.20	0.0	-20.1	25.2	18.1	7.09	3.549	
1,500.0	1,499.5	1,499.5	1,499.5	4.1	3.7	-151.58	0.0	-20.1	32.5	24.9	7.63	4.259	
1,600.0	1,598.7	1,599.7	1,599.6	4.4	3.9	-157.42	1.7	-19.8	42.5	34.3	8.18	5.195	
1,700.0	1,697.7	1,700.3	1,700.1	4.6	4.2	-158.84	6.9	-18.7	52.1	43.5	8.64	6.030	
1,800.0	1,796.7	1,801.1	1,800.5	4.8	4.5	-169.21	15.5	-17.0	60.4	51.4	9.01	6.706	
1,851.5	1,847.6	1,853.0	1,852.1	4.8	4.7	-172.06	21.3	-15.8	64.8	55.7	9.11	7.106	
1,900.0	1,895.5	1,901.7	1,900.4	4.9	4.8	-168.50	27.6	-14.5	68.9	59.7	9.19	7.488	
2,000.0	1,994.3	2,001.5	1,999.0	5.1	4.9	-161.02	42.5	-11.5	77.1	67.8	9.34	8.251	
2,100.0	2,093.0	2,100.7	2,097.0	5.3	5.1	-154.83	57.7	-8.4	86.3	76.6	9.62	8.965	
2,200.0	2,191.8	2,199.9	2,195.0	5.5	5.3	-149.87	72.9	-5.4	96.2	86.3	9.93	9.694	
2,300.0	2,290.6	2,299.1	2,292.9	5.6	5.4	-145.86	88.1	-2.3	106.8	96.5	10.25	10.420	
2,400.0	2,389.3	2,398.3	2,390.9	5.8	5.6	-142.58	103.3	0.8	117.8	107.2	10.58	11.134	
2,500.0	2,488.1	2,497.5	2,488.9	6.0	5.8	-139.87	118.5	3.9	129.1	118.2	10.91	11.830	
2,600.0	2,586.9	2,596.6	2,586.8	6.2	6.0	-137.59	133.7	7.0	140.6	129.4	11.25	12.504	
2,700.0	2,685.6	2,695.9	2,684.8	6.4	6.1	-135.69	148.9	10.0	152.3	140.8	11.52	13.224	
2,800.0	2,784.4	2,795.2	2,783.2	6.6	6.3	-134.49	162.8	12.8	164.1	152.3	11.85	13.848	
2,900.0	2,883.2	2,894.7	2,881.9	6.8	6.5	-134.02	175.1	15.3	175.9	163.7	12.19	14.430	
3,000.0	2,981.9	2,994.2	2,980.8	7.0	6.7	-134.14	185.7	17.5	187.5	175.0	12.52	14.974	
3,100.0	3,080.7	3,093.7	3,079.9	7.2	6.8	-134.75	194.7	19.3	199.0	186.2	12.85	15.485	
3,200.0	3,179.5	3,193.2	3,179.0	7.4	7.0	-135.76	201.9	20.8	210.5	197.3	13.19	15.968	
3,300.0	3,278.2	3,292.4	3,278.1	7.6	7.2	-137.11	207.4	21.9	222.1	208.5	13.52	16.428	
3,400.0	3,377.0	3,391.5	3,377.2	7.8	7.3	-138.75	211.3	22.7	233.7	219.9	13.85	16.874	
3,500.0	3,475.8	3,490.4	3,476.0	8.0	7.5	-140.63	213.5	23.1	245.6	231.5	14.19	17.313	
3,547.2	3,522.4	3,536.9	3,522.5	8.0	7.5	-141.58	213.9	23.2	251.4	237.1	14.31	17.574	
3,600.0	3,574.6	3,589.0	3,574.6	8.1	7.6	-142.70	214.0	23.2	257.7	243.3	14.43	17.865	
3,700.0	3,673.6	3,688.0	3,673.6	8.3	7.7	-144.55	214.0	23.2	269.0	254.2	14.76	18.224	
3,800.0	3,772.9	3,787.3	3,772.9	8.5	7.8	-146.05	214.0	23.2	279.0	263.9	15.09	18.487	
3,900.0	3,872.3	3,886.7	3,872.3	8.7	7.9	-147.26	214.0	23.2	287.7	272.3	15.41	18.664	
4,000.0	3,972.0	3,986.4	3,972.0	8.9	8.0	-148.21	214.0	23.2	295.0	279.3	15.73	18.758	
4,100.0	4,071.7	4,086.1	4,071.7	9.0	8.1	-148.93	214.0	23.2	300.9	284.9	16.03	18.772	
4,200.0	4,171.6	4,186.0	4,171.6	9.2	8.2	-149.46	214.0	23.2	305.4	289.1	16.32	18.708	
4,300.0	4,271.5	4,285.9	4,271.5	9.4	8.4	-149.80	214.0	23.2	308.4	291.8	16.60	18.571	
4,400.0	4,371.5	4,385.9	4,371.5	9.5	8.5	-149.96	214.0	23.2	309.8	293.0	16.87	18.369	
4,447.5	4,419.0	4,433.4	4,419.0	9.6	8.5	-90.52	214.0	23.2	310.0	293.1	16.95	18.289	
4,500.0	4,471.5	4,485.9	4,471.5	9.6	8.6	-90.52	214.0	23.2	310.0	293.0	17.03	18.201	
4,600.0	4,571.5	4,585.9	4,571.5	9.7	8.7	-90.52	214.0	23.2	310.0	292.8	17.24	17.987	
4,700.0	4,671.5	4,685.9	4,671.5	9.8	8.8	-90.52	214.0	23.2	310.0	292.6	17.44	17.779	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 502H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 9487-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,771.5	4,785.9	4,771.5	9.8	8.9	-90.52	214.0	23.2	310.0	292.4	17.64	17.576	
4,900.0	4,871.5	4,885.9	4,871.5	9.9	9.0	-90.52	214.0	23.2	310.0	292.2	17.84	17.379	
5,000.0	4,971.5	4,985.9	4,971.5	10.0	9.1	-90.52	214.0	23.2	310.0	292.0	18.04	17.186	
5,100.0	5,071.5	5,085.9	5,071.5	10.1	9.2	-90.52	214.0	23.2	310.0	291.8	18.24	16.999	
5,200.0	5,171.5	5,185.9	5,171.5	10.2	9.3	-90.52	214.0	23.2	310.0	291.6	18.43	16.817	
5,300.0	5,271.5	5,285.9	5,271.5	10.3	9.4	-90.52	214.0	23.2	310.0	291.4	18.63	16.639	
5,400.0	5,371.5	5,385.9	5,371.5	10.4	9.5	-90.52	214.0	23.2	310.0	291.2	18.83	16.465	
5,500.0	5,471.5	5,485.9	5,471.5	10.5	9.6	-90.52	214.0	23.2	310.0	291.0	19.02	16.295	
5,600.0	5,571.5	5,585.9	5,571.5	10.6	9.7	-90.52	214.0	23.2	310.0	290.8	19.22	16.130	
5,700.0	5,671.5	5,685.9	5,671.5	10.6	9.8	-90.52	214.0	23.2	310.0	290.6	19.41	15.968	
5,800.0	5,771.5	5,785.9	5,771.5	10.7	9.9	-90.52	214.0	23.2	310.0	290.4	19.61	15.810	
5,900.0	5,871.5	5,885.9	5,871.5	10.8	10.0	-90.52	214.0	23.2	310.0	290.2	19.80	15.656	
6,000.0	5,971.5	5,985.9	5,971.5	10.9	10.1	-90.52	214.0	23.2	310.0	290.0	19.99	15.505	
6,100.0	6,071.5	6,085.9	6,071.5	11.0	10.2	-90.52	214.0	23.2	310.0	289.8	20.19	15.358	
6,200.0	6,171.5	6,185.9	6,171.5	11.1	10.3	-90.52	214.0	23.2	310.0	289.6	20.38	15.213	
6,300.0	6,271.5	6,285.9	6,271.5	11.2	10.4	-90.52	214.0	23.2	310.0	289.4	20.57	15.072	
6,400.0	6,371.5	6,385.9	6,371.5	11.3	10.5	-90.52	214.0	23.2	310.0	289.3	20.76	14.933	
6,500.0	6,471.5	6,485.9	6,471.5	11.3	10.6	-90.52	214.0	23.2	310.0	289.1	20.95	14.798	
6,600.0	6,571.5	6,585.9	6,571.5	11.4	10.7	-90.52	214.0	23.2	310.0	288.9	21.14	14.665	
6,700.0	6,671.5	6,685.9	6,671.5	11.5	10.8	-90.52	214.0	23.2	310.0	288.7	21.33	14.535	
6,800.0	6,771.5	6,785.9	6,771.5	11.6	10.9	-90.52	214.0	23.2	310.0	288.5	21.52	14.408	
6,900.0	6,871.5	6,885.9	6,871.5	11.7	11.0	-90.52	214.0	23.2	310.0	288.3	21.70	14.283	
7,000.0	6,971.5	6,985.9	6,971.5	11.8	11.1	-90.52	214.0	23.2	310.0	288.1	21.89	14.161	
7,100.0	7,071.5	7,085.9	7,071.5	11.9	11.2	-90.52	214.0	23.2	310.0	287.9	22.08	14.041	
7,200.0	7,171.5	7,185.9	7,171.5	12.0	11.3	-90.52	214.0	23.2	310.0	287.7	22.27	13.923	
7,300.0	7,271.5	7,285.9	7,271.5	12.0	11.4	-90.52	214.0	23.2	310.0	287.6	22.45	13.807	
7,400.0	7,371.5	7,385.9	7,371.5	12.1	11.5	-90.52	214.0	23.2	310.0	287.4	22.64	13.694	
7,500.0	7,471.5	7,485.9	7,471.5	12.2	11.6	-90.52	214.0	23.2	310.0	287.2	22.82	13.582	
7,600.0	7,571.5	7,585.9	7,571.5	12.3	11.7	-90.52	214.0	23.2	310.0	287.0	23.01	13.473	
7,700.0	7,671.5	7,685.9	7,671.5	12.4	11.8	-90.52	214.0	23.2	310.0	286.8	23.19	13.366	
7,800.0	7,771.5	7,785.9	7,771.5	12.5	11.9	-90.52	214.0	23.2	310.0	286.6	23.38	13.260	
7,900.0	7,871.5	7,885.9	7,871.5	12.6	12.0	-90.52	214.0	23.2	310.0	286.4	23.56	13.156	
8,000.0	7,971.5	7,985.9	7,971.5	12.6	12.1	-90.52	214.0	23.2	310.0	286.3	23.75	13.055	
8,100.0	8,071.5	8,085.9	8,071.5	12.7	12.2	-90.52	214.0	23.2	310.0	286.1	23.93	12.955	
8,200.0	8,171.5	8,185.9	8,171.5	12.8	12.3	-90.52	214.0	23.2	310.0	285.9	24.11	12.856	
8,300.0	8,271.5	8,285.9	8,271.5	12.9	12.4	-90.52	214.0	23.2	310.0	285.7	24.30	12.759	
8,400.0	8,371.5	8,385.9	8,371.5	13.0	12.5	-90.52	214.0	23.2	310.0	285.5	24.48	12.664	
8,500.0	8,471.5	8,485.9	8,471.5	13.1	12.6	-90.52	214.0	23.2	310.0	285.4	24.66	12.571	
8,600.0	8,571.5	8,585.9	8,571.5	13.2	12.7	-90.52	214.0	23.2	310.0	285.2	24.84	12.479	
8,700.0	8,671.5	8,685.9	8,671.5	13.2	12.7	-90.52	214.0	23.2	310.0	285.0	25.03	12.388	
8,800.0	8,771.5	8,785.9	8,771.5	13.3	12.8	-90.52	214.0	23.2	310.0	284.8	25.21	12.299	
8,900.0	8,871.5	8,885.9	8,871.5	13.4	12.9	-90.52	214.0	23.2	310.0	284.6	25.39	12.211	
9,000.0	8,971.5	8,985.9	8,971.5	13.5	13.0	-90.52	214.0	23.2	310.0	284.4	25.57	12.125	
9,100.0	9,071.5	9,085.9	9,071.5	13.6	13.1	-90.52	214.0	23.2	310.0	284.3	25.75	12.040	
9,200.0	9,171.5	9,185.9	9,171.5	13.7	13.2	-90.52	214.0	23.2	310.0	284.1	25.93	11.956	
9,300.0	9,271.5	9,285.9	9,271.5	13.8	13.3	-90.52	214.0	23.2	310.0	283.9	26.11	11.874	
9,400.0	9,371.5	9,385.9	9,371.5	13.8	13.4	-90.52	214.0	23.2	310.0	283.7	26.29	11.793	
9,500.0	9,471.5	9,485.9	9,471.5	13.9	13.5	-90.52	214.0	23.2	310.0	283.6	26.46	11.716	
9,504.4	9,476.0	9,490.3	9,475.9	13.9	13.5	-90.52	214.0	23.2	310.0	283.5	26.47	11.714	
9,600.0	9,571.5	9,584.4	9,569.3	14.0	13.5	-92.35	204.1	23.3	310.2	283.6	26.59	11.665	
9,700.0	9,671.5	9,675.0	9,655.8	14.1	13.6	-97.24	177.4	23.4	312.6	285.9	26.80	11.667	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 502H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 9487-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,771.5	9,753.7	9,725.6	14.2	13.6	-103.69	141.4	23.7	321.9	294.7	27.20	11.833	
9,900.0	9,871.5	9,818.9	9,778.4	14.3	13.7	-110.17	103.2	23.9	342.4	314.4	28.00	12.228	
10,000.0	9,971.5	9,875.0	9,819.3	14.4	13.7	-116.19	64.8	24.2	376.5	347.4	29.19	12.901	
10,100.0	10,071.5	9,915.2	9,845.7	14.4	13.8	-120.56	34.5	24.4	423.8	393.2	30.68	13.815	
10,200.0	10,171.5	9,950.0	9,866.3	14.5	13.8	-124.27	6.5	24.6	482.3	450.2	32.13	15.013	
10,300.0	10,271.5	9,975.0	9,879.9	14.6	13.8	-126.86	-14.5	24.7	549.5	516.1	33.48	16.412	
10,400.0	10,371.5	10,000.0	9,892.4	14.7	13.8	-129.36	-36.1	24.8	623.4	588.8	34.61	18.013	
10,500.0	10,471.5	10,025.0	9,903.7	14.8	13.9	-131.76	-58.4	25.0	702.2	666.7	35.54	19.757	
10,600.0	10,571.5	10,041.0	9,910.3	14.9	13.9	-133.24	-72.9	25.1	784.9	748.5	36.42	21.550	
10,700.0	10,671.5	10,050.0	9,913.9	15.0	13.9	-134.05	-81.3	25.1	870.5	833.3	37.23	23.380	
10,800.0	10,771.5	10,075.0	9,922.8	15.0	13.9	-136.23	-104.6	25.3	958.3	920.5	37.84	25.326	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 503H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 10536-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.48	-0.5	-60.0	60.0				
100.0	100.0	99.0	99.0	0.6	0.6	-90.48	-0.5	-60.0	60.0	58.4	1.58	38.038	
200.0	200.0	199.0	199.0	1.1	1.0	-90.48	-0.5	-60.0	60.0	57.5	2.51	23.863	
300.0	300.0	299.0	299.0	1.4	1.4	-90.48	-0.5	-60.0	60.0	56.9	3.14	19.100	
400.0	400.0	399.0	399.0	1.7	1.7	-90.48	-0.5	-60.0	60.0	56.4	3.65	16.455	
500.0	500.0	499.0	499.0	1.9	1.9	-90.48	-0.5	-60.0	60.0	55.9	4.08	14.701	
600.0	600.0	599.0	599.0	2.1	2.1	-90.48	-0.5	-60.0	60.0	55.5	4.47	13.426	
700.0	700.0	699.0	699.0	2.3	2.3	-90.48	-0.5	-60.0	60.0	55.2	4.82	12.443	
800.0	800.0	799.0	799.0	2.5	2.5	-90.48	-0.5	-60.0	60.0	54.9	5.15	11.653	
900.0	900.0	899.0	899.0	2.7	2.7	-90.48	-0.5	-60.0	60.0	54.5	5.45	11.001	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.48	-0.5	-60.0	60.0	54.3	5.74	10.450	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.48	-0.5	-60.0	60.0	54.0	6.01	9.977	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.48	-0.5	-60.0	60.0	53.7	6.27	9.564	CC, ES
1,300.0	1,300.0	1,299.0	1,299.0	3.5	3.4	-131.70	-0.5	-60.0	61.1	54.6	6.59	9.278	
1,400.0	1,399.8	1,398.8	1,398.8	3.8	3.5	-135.11	-0.5	-60.0	64.8	57.7	7.03	9.214	SF
1,500.0	1,499.5	1,498.5	1,498.5	4.1	3.7	-139.97	-0.5	-60.0	71.2	63.7	7.48	9.518	
1,600.0	1,598.7	1,595.5	1,595.5	4.4	3.8	-144.63	0.0	-61.5	82.3	74.2	8.02	10.255	
1,700.0	1,697.7	1,691.7	1,691.6	4.6	4.0	-147.61	1.7	-66.0	97.9	89.4	8.51	11.503	
1,800.0	1,796.7	1,787.0	1,786.5	4.8	4.3	-161.63	4.4	-73.5	117.3	108.4	8.96	13.101	
1,851.5	1,847.6	1,835.4	1,834.6	4.8	4.4	-167.22	6.2	-78.4	129.2	120.1	9.13	14.161	
1,900.0	1,895.5	1,880.6	1,879.5	4.9	4.5	-166.43	8.1	-83.8	141.3	132.1	9.28	15.233	
2,000.0	1,994.3	1,973.9	1,971.8	5.1	4.7	-164.70	12.7	-96.7	168.2	158.6	9.57	17.580	
2,100.0	2,093.0	2,069.9	2,066.6	5.3	4.8	-163.25	17.8	-110.8	195.9	186.0	9.90	19.785	
2,200.0	2,191.8	2,165.9	2,161.4	5.5	5.0	-162.17	22.9	-124.9	223.6	213.4	10.26	21.798	
2,300.0	2,290.6	2,261.9	2,256.2	5.6	5.2	-161.32	28.0	-139.1	251.5	240.9	10.62	23.678	
2,400.0	2,389.3	2,357.9	2,351.0	5.8	5.3	-160.64	33.1	-153.2	279.3	268.4	10.98	25.437	
2,500.0	2,488.1	2,453.9	2,445.8	6.0	5.5	-160.09	38.2	-167.3	307.2	295.9	11.34	27.086	
2,600.0	2,586.9	2,549.9	2,540.6	6.2	5.7	-159.62	43.3	-181.5	335.2	323.5	11.71	28.634	
2,700.0	2,685.6	2,645.8	2,635.4	6.4	5.9	-159.23	48.4	-195.6	363.1	351.0	12.07	30.090	
2,800.0	2,784.4	2,741.8	2,730.2	6.6	6.1	-158.90	53.5	-209.7	391.1	378.6	12.43	31.462	
2,900.0	2,883.2	2,837.8	2,825.0	6.8	6.3	-158.61	58.6	-223.8	419.0	406.2	12.79	32.756	
3,000.0	2,981.9	2,933.8	2,919.9	7.0	6.4	-158.35	63.7	-238.0	447.0	433.8	13.15	33.980	
3,100.0	3,080.7	3,029.8	3,014.7	7.2	6.6	-158.13	68.8	-252.1	475.0	461.4	13.52	35.138	
3,200.0	3,179.5	3,125.8	3,109.5	7.4	6.8	-157.93	73.9	-266.2	503.0	489.1	13.88	36.236	
3,300.0	3,278.2	3,221.8	3,204.3	7.6	7.0	-157.75	79.0	-280.3	530.9	516.7	14.24	37.278	
3,400.0	3,377.0	3,317.8	3,299.1	7.8	7.2	-157.59	84.1	-294.5	558.9	544.3	14.61	38.269	
3,500.0	3,475.8	3,413.8	3,393.9	8.0	7.4	-157.44	89.2	-308.6	586.9	572.0	14.97	39.211	
3,547.2	3,522.4	3,459.1	3,438.7	8.0	7.4	-157.38	91.6	-315.3	600.2	585.0	15.11	39.708	
3,600.0	3,574.6	3,509.8	3,488.8	8.1	7.5	-157.36	94.3	-322.7	614.7	599.4	15.28	40.232	
3,700.0	3,673.6	3,606.2	3,584.0	8.3	7.7	-157.28	99.4	-336.9	641.1	625.5	15.64	40.993	
3,800.0	3,772.9	3,703.1	3,679.6	8.5	7.9	-157.15	104.5	-351.2	666.0	650.0	16.00	41.630	
3,900.0	3,872.3	3,800.3	3,775.6	8.7	8.1	-156.97	109.7	-365.5	689.3	673.0	16.35	42.151	
4,000.0	3,972.0	3,897.8	3,872.0	8.9	8.3	-156.75	114.8	-379.8	711.1	694.4	16.71	42.567	
4,100.0	4,071.7	3,995.6	3,968.6	9.0	8.5	-156.48	120.0	-394.2	731.3	714.2	17.05	42.885	
4,200.0	4,171.6	4,093.7	4,065.5	9.2	8.7	-156.17	125.3	-408.7	750.0	732.6	17.40	43.114	
4,300.0	4,271.5	4,192.1	4,162.7	9.4	8.9	-155.82	130.5	-423.1	767.1	749.4	17.73	43.266	
4,400.0	4,371.5	4,290.7	4,260.0	9.5	9.1	-155.43	135.7	-437.6	782.7	764.7	18.06	43.353	
4,447.5	4,419.0	4,337.6	4,306.3	9.6	9.2	-95.77	138.2	-444.5	789.6	771.5	18.17	43.453	
4,500.0	4,471.5	4,389.4	4,357.6	9.6	9.3	-95.52	140.9	-452.2	797.1	778.8	18.29	43.573	
4,600.0	4,571.5	4,488.2	4,455.1	9.7	9.5	-95.04	146.2	-466.7	811.3	792.7	18.57	43.690	
4,700.0	4,671.5	4,587.0	4,552.7	9.8	9.7	-94.59	151.4	-481.2	825.5	806.7	18.85	43.804	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 503H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 10536-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,771.5	4,685.8	4,650.2	9.8	9.9	-94.15	156.7	-495.8	839.8	820.7	19.12	43.915	
4,900.0	4,871.5	4,784.5	4,747.8	9.9	10.1	-93.72	161.9	-510.3	854.2	834.8	19.40	44.022	
5,000.0	4,971.5	4,883.3	4,845.3	10.0	10.2	-93.31	167.2	-524.8	868.5	848.9	19.68	44.126	
5,100.0	5,071.5	4,982.1	4,942.9	10.1	10.4	-92.91	172.4	-539.4	883.0	863.0	19.96	44.227	
5,200.0	5,171.5	5,080.8	5,040.4	10.2	10.6	-92.53	177.6	-553.9	897.5	877.2	20.25	44.326	
5,300.0	5,271.5	5,179.6	5,138.0	10.3	10.8	-92.15	182.9	-568.4	912.0	891.4	20.52	44.434	
5,400.0	5,371.5	5,293.6	5,250.7	10.4	11.1	-91.76	188.6	-584.4	925.8	904.9	20.90	44.288	
5,500.0	5,471.5	5,410.5	5,366.6	10.5	11.3	-91.42	193.7	-598.6	937.8	916.6	21.23	44.168	
5,600.0	5,571.5	5,527.9	5,483.4	10.6	11.5	-91.14	198.1	-610.6	948.0	926.4	21.55	43.993	
5,700.0	5,671.5	5,645.9	5,600.8	10.6	11.8	-90.91	201.6	-620.3	956.2	934.3	21.85	43.757	
5,800.0	5,771.5	5,764.2	5,718.9	10.7	12.0	-90.74	204.3	-627.9	962.5	940.4	22.14	43.465	
5,900.0	5,871.5	5,882.8	5,837.4	10.8	12.2	-90.63	206.2	-633.1	966.9	944.5	22.42	43.122	
6,000.0	5,971.5	6,001.5	5,956.1	10.9	12.3	-90.56	207.3	-636.0	969.4	946.7	22.68	42.738	
6,100.0	6,071.5	6,116.0	6,070.5	11.0	12.5	-90.55	207.5	-636.7	969.9	947.1	22.87	42.407	
6,200.0	6,171.5	6,216.0	6,170.5	11.1	12.6	-90.55	207.5	-636.7	969.9	946.9	23.08	42.034	
6,300.0	6,271.5	6,316.0	6,270.5	11.2	12.6	-90.55	207.5	-636.7	969.9	946.7	23.23	41.756	
6,400.0	6,371.5	6,416.0	6,370.5	11.3	12.7	-90.55	207.5	-636.7	969.9	946.6	23.38	41.482	
6,500.0	6,471.5	6,516.0	6,470.5	11.3	12.8	-90.55	207.5	-636.7	969.9	946.4	23.54	41.211	
6,600.0	6,571.5	6,616.0	6,570.5	11.4	12.8	-90.55	207.5	-636.7	969.9	946.3	23.69	40.943	
6,700.0	6,671.5	6,716.0	6,670.5	11.5	12.9	-90.55	207.5	-636.7	969.9	946.1	23.84	40.679	
6,800.0	6,771.5	6,816.0	6,770.5	11.6	13.0	-90.55	207.5	-636.7	969.9	945.9	24.00	40.418	
6,900.0	6,871.5	6,916.0	6,870.5	11.7	13.0	-90.55	207.5	-636.7	969.9	945.8	24.15	40.160	
7,000.0	6,971.5	7,016.0	6,970.5	11.8	13.1	-90.55	207.5	-636.7	969.9	945.6	24.31	39.905	
7,100.0	7,071.5	7,116.0	7,070.5	11.9	13.2	-90.55	207.5	-636.7	969.9	945.5	24.46	39.653	
7,200.0	7,171.5	7,216.0	7,170.5	12.0	13.2	-90.55	207.5	-636.7	969.9	945.3	24.61	39.405	
7,300.0	7,271.5	7,316.0	7,270.5	12.0	13.3	-90.55	207.5	-636.7	969.9	945.2	24.77	39.159	
7,400.0	7,371.5	7,416.0	7,370.5	12.1	13.4	-90.55	207.5	-636.7	969.9	945.0	24.92	38.916	
7,500.0	7,471.5	7,516.0	7,470.5	12.2	13.5	-90.55	207.5	-636.7	969.9	944.9	25.08	38.676	
7,600.0	7,571.5	7,616.0	7,570.5	12.3	13.5	-90.55	207.5	-636.7	969.9	944.7	25.23	38.439	
7,700.0	7,671.5	7,716.0	7,670.5	12.4	13.6	-90.55	207.5	-636.7	969.9	944.6	25.39	38.205	
7,800.0	7,771.5	7,816.0	7,770.5	12.5	13.7	-90.55	207.5	-636.7	969.9	944.4	25.54	37.973	
7,900.0	7,871.5	7,916.0	7,870.5	12.6	13.7	-90.55	207.5	-636.7	969.9	944.2	25.70	37.744	
8,000.0	7,971.5	8,016.0	7,970.5	12.6	13.8	-90.55	207.5	-636.7	969.9	944.1	25.85	37.518	
8,100.0	8,071.5	8,116.0	8,070.5	12.7	13.9	-90.55	207.5	-636.7	969.9	943.9	26.01	37.294	
8,200.0	8,171.5	8,216.0	8,170.5	12.8	13.9	-90.55	207.5	-636.7	969.9	943.8	26.16	37.073	
8,300.0	8,271.5	8,316.0	8,270.5	12.9	14.0	-90.55	207.5	-636.7	969.9	943.6	26.32	36.855	
8,400.0	8,371.5	8,416.0	8,370.5	13.0	14.1	-90.55	207.5	-636.7	969.9	943.5	26.47	36.638	
8,500.0	8,471.5	8,516.0	8,470.5	13.1	14.2	-90.55	207.5	-636.7	969.9	943.3	26.63	36.425	
8,600.0	8,571.5	8,616.0	8,570.5	13.2	14.2	-90.55	207.5	-636.7	969.9	943.2	26.78	36.213	
8,700.0	8,671.5	8,716.0	8,670.5	13.2	14.3	-90.55	207.5	-636.7	969.9	943.0	26.94	36.004	
8,800.0	8,771.5	8,816.0	8,770.5	13.3	14.4	-90.55	207.5	-636.7	969.9	942.8	27.10	35.798	
8,900.0	8,871.5	8,916.0	8,870.5	13.4	14.4	-90.55	207.5	-636.7	969.9	942.7	27.25	35.593	
9,000.0	8,971.5	9,016.0	8,970.5	13.5	14.5	-90.55	207.5	-636.7	969.9	942.5	27.41	35.391	
9,100.0	9,071.5	9,116.0	9,070.5	13.6	14.6	-90.55	207.5	-636.7	969.9	942.4	27.56	35.191	
9,200.0	9,171.5	9,216.0	9,170.5	13.7	14.6	-90.55	207.5	-636.7	969.9	942.2	27.72	34.993	
9,300.0	9,271.5	9,316.0	9,270.5	13.8	14.7	-90.55	207.5	-636.7	969.9	942.1	27.87	34.797	
9,400.0	9,371.5	9,416.0	9,370.5	13.8	14.8	-90.55	207.5	-636.7	969.9	941.9	28.03	34.604	
9,500.0	9,471.5	9,516.0	9,470.5	13.9	14.9	-90.55	207.5	-636.7	969.9	941.8	28.19	34.412	
9,600.0	9,571.5	9,616.0	9,570.5	14.0	14.9	-90.55	207.5	-636.7	969.9	941.6	28.34	34.223	
9,700.0	9,671.5	9,716.0	9,670.5	14.1	15.0	-90.55	207.5	-636.7	969.9	941.4	28.50	34.035	
9,800.0	9,771.5	9,816.0	9,770.5	14.2	15.1	-90.55	207.5	-636.7	969.9	941.3	28.65	33.850	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 503H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 10536-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,900.0	9,871.5	9,916.0	9,870.5	14.3	15.2	-90.55	207.5	-636.7	969.9	941.1	28.81	33.666	
10,000.0	9,971.5	10,016.0	9,970.5	14.4	15.2	-90.55	207.5	-636.7	969.9	941.0	28.97	33.485	
10,100.0	10,071.5	10,116.0	10,070.5	14.4	15.3	-90.55	207.5	-636.7	969.9	940.8	29.12	33.305	
10,200.0	10,171.5	10,216.0	10,170.5	14.5	15.4	-90.55	207.5	-636.7	969.9	940.7	29.28	33.127	
10,300.0	10,271.5	10,316.0	10,270.5	14.6	15.4	-90.55	207.5	-636.7	969.9	940.5	29.44	32.951	
10,400.0	10,371.5	10,416.0	10,370.5	14.7	15.5	-90.55	207.5	-636.7	969.9	940.4	29.59	32.777	
10,500.0	10,471.5	10,516.0	10,470.5	14.8	15.6	-90.55	207.5	-636.7	969.9	940.2	29.74	32.613	
10,510.0	10,481.5	10,526.0	10,480.5	14.8	15.6	-90.55	207.5	-636.7	969.9	940.2	29.75	32.601	
10,600.0	10,571.5	10,614.8	10,568.9	14.9	15.6	-90.93	201.0	-636.7	970.0	940.2	29.83	32.513	
10,700.0	10,671.5	10,707.1	10,658.0	15.0	15.6	-92.34	177.2	-636.5	970.6	940.7	29.92	32.443	
10,800.0	10,771.5	10,787.9	10,730.9	15.0	15.7	-94.38	142.6	-636.3	973.1	943.1	30.02	32.414	
10,900.0	10,871.5	10,855.5	10,786.7	15.1	15.7	-96.61	104.5	-636.0	979.3	949.1	30.20	32.427	
11,000.0	10,971.5	10,910.8	10,828.0	15.2	15.7	-98.74	67.8	-635.8	990.7	960.2	30.52	32.463	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.43	0.4	39.9	39.9				
100.0	100.0	100.0	100.0	0.6	0.6	89.43	0.4	39.9	39.9	38.3	1.58	25.208	
200.0	200.0	200.0	200.0	1.1	1.1	89.43	0.4	39.9	39.9	37.4	2.52	15.839	
300.0	300.0	300.0	300.0	1.4	1.4	89.43	0.4	39.9	39.9	36.8	3.14	12.689	
400.0	400.0	400.0	400.0	1.7	1.7	89.43	0.4	39.9	39.9	36.3	3.65	10.935	
500.0	500.0	500.0	500.0	1.9	1.9	89.43	0.4	39.9	39.9	35.8	4.08	9.771	
600.0	600.0	600.0	600.0	2.1	2.1	89.43	0.4	39.9	39.9	35.4	4.47	8.925	
700.0	700.0	700.0	700.0	2.3	2.3	89.43	0.4	39.9	39.9	35.1	4.82	8.271	
800.0	800.0	800.0	800.0	2.5	2.5	89.43	0.4	39.9	39.9	34.8	5.15	7.747	
900.0	900.0	900.0	900.0	2.7	2.7	89.43	0.4	39.9	39.9	34.4	5.46	7.314	
1,000.0	1,000.0	1,000.0	1,000.0	2.9	2.9	89.43	0.4	39.9	39.9	34.2	5.74	6.948	
1,100.0	1,100.0	1,100.0	1,100.0	3.1	3.1	89.43	0.4	39.9	39.9	33.9	6.02	6.633	
1,200.0	1,200.0	1,200.0	1,200.0	3.2	3.2	89.43	0.4	39.9	39.9	33.6	6.28	6.359	
1,300.0	1,300.0	1,300.0	1,300.0	3.5	3.4	51.40	0.4	39.9	38.8	32.2	6.58	5.892	
1,400.0	1,399.8	1,399.8	1,399.8	3.8	3.5	58.01	0.4	39.9	35.8	28.8	6.97	5.132	
1,500.0	1,499.5	1,499.5	1,499.5	4.1	3.7	71.39	0.4	39.9	32.0	24.7	7.33	4.363	
1,562.4	1,561.4	1,561.0	1,561.0	4.3	3.8	83.30	0.5	40.5	30.9	23.3	7.65	4.042	CC, ES
1,600.0	1,598.7	1,598.1	1,598.1	4.4	3.8	90.90	0.8	41.5	31.3	23.5	7.84	3.996	
1,700.0	1,697.7	1,697.0	1,696.9	4.6	4.0	106.55	1.9	46.5	36.0	27.5	8.42	4.271	
1,800.0	1,796.7	1,796.3	1,795.8	4.8	4.3	101.55	3.8	54.8	41.8	32.8	9.00	4.648	
1,851.5	1,847.6	1,847.6	1,846.7	4.8	4.4	98.26	5.1	60.4	44.2	35.1	9.17	4.826	
1,900.0	1,895.5	1,895.9	1,894.7	4.9	4.5	99.90	6.5	66.5	46.4	37.1	9.31	4.981	
2,000.0	1,994.3	1,995.6	1,993.1	5.1	4.8	99.96	9.9	81.6	51.2	41.5	9.66	5.295	
2,100.0	2,093.0	2,095.1	2,090.8	5.3	5.1	96.52	14.1	99.9	56.5	46.5	9.97	5.664	
2,200.0	2,191.8	2,194.6	2,188.0	5.5	5.2	91.36	18.9	120.8	62.7	52.4	10.22	6.132	
2,300.0	2,290.6	2,294.3	2,285.3	5.6	5.4	87.02	23.7	141.8	69.3	58.8	10.53	6.580	
2,400.0	2,389.3	2,393.9	2,382.6	5.8	5.6	83.45	28.6	162.8	76.3	65.4	10.86	7.023	
2,500.0	2,488.1	2,493.6	2,479.9	6.0	5.8	80.49	33.4	183.9	83.5	72.3	11.20	7.456	
2,600.0	2,586.9	2,593.3	2,577.2	6.2	6.0	78.01	38.2	204.9	90.9	79.3	11.54	7.876	
2,700.0	2,685.6	2,692.9	2,674.5	6.4	6.1	75.90	43.0	225.9	98.4	86.5	11.88	8.281	
2,800.0	2,784.4	2,792.6	2,771.8	6.6	6.3	74.10	47.8	246.9	106.1	93.8	12.23	8.670	
2,900.0	2,883.2	2,892.2	2,869.1	6.8	6.5	72.54	52.6	267.9	113.8	101.2	12.59	9.043	
3,000.0	2,981.9	2,991.9	2,966.4	7.0	6.7	71.17	57.4	289.0	121.6	108.7	12.94	9.400	
3,100.0	3,080.7	3,091.5	3,063.7	7.2	6.9	69.98	62.3	310.0	129.5	116.2	13.30	9.742	
3,200.0	3,179.5	3,191.2	3,161.0	7.4	7.1	68.92	67.1	331.0	137.5	123.8	13.65	10.069	
3,300.0	3,278.2	3,290.8	3,258.3	7.6	7.3	67.98	71.9	352.0	145.4	131.4	14.01	10.381	
3,400.0	3,377.0	3,390.5	3,355.6	7.8	7.5	67.13	76.7	373.1	153.4	139.1	14.37	10.680	
3,500.0	3,475.8	3,490.2	3,452.9	8.0	7.7	66.37	81.5	394.1	161.5	146.7	14.72	10.966	
3,547.2	3,522.4	3,537.2	3,498.8	8.0	7.8	66.04	83.8	404.0	165.3	150.4	14.87	11.118	
3,600.0	3,574.6	3,589.8	3,550.1	8.1	7.9	65.65	86.3	415.1	169.6	154.6	15.03	11.288	
3,700.0	3,673.6	3,689.3	3,647.3	8.3	8.1	64.58	91.1	436.1	178.5	163.1	15.39	11.595	
3,800.0	3,772.9	3,788.7	3,744.4	8.5	8.3	63.15	96.0	457.1	188.2	172.4	15.77	11.936	
3,900.0	3,872.3	3,888.0	3,841.3	8.7	8.5	61.44	100.7	478.0	198.8	182.7	16.14	12.316	
4,000.0	3,972.0	3,987.0	3,938.0	8.9	8.7	59.51	105.5	498.9	210.5	194.0	16.53	12.736	
4,100.0	4,071.7	4,085.9	4,034.4	9.0	8.9	57.43	110.3	519.8	223.4	206.4	16.92	13.201	
4,200.0	4,171.6	4,184.4	4,130.7	9.2	9.2	55.24	115.1	540.6	237.5	220.2	17.32	13.715	
4,300.0	4,271.5	4,282.7	4,226.6	9.4	9.4	53.02	119.8	561.3	253.0	235.3	17.72	14.280	
4,400.0	4,371.5	4,380.7	4,322.3	9.5	9.6	50.78	124.6	582.0	270.0	251.8	18.12	14.901	
4,447.5	4,419.0	4,427.1	4,367.6	9.6	9.7	109.19	126.8	591.7	278.6	260.3	18.28	15.239	
4,500.0	4,471.5	4,478.4	4,417.6	9.6	9.8	108.00	129.3	602.6	288.3	269.9	18.45	15.626	
4,600.0	4,571.5	4,576.0	4,512.9	9.7	10.0	105.94	134.0	623.2	307.2	288.4	18.82	16.326	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,671.5	4,673.6	4,608.3	9.8	10.2	104.12	138.7	643.8	326.4	307.2	19.17	17.024	
4,800.0	4,771.5	4,771.2	4,703.6	9.8	10.4	102.49	143.4	664.3	345.9	326.4	19.53	17.715	
4,900.0	4,871.5	4,868.9	4,798.9	9.9	10.6	101.05	148.1	684.9	365.7	345.8	19.87	18.399	
5,000.0	4,971.5	4,966.5	4,894.2	10.0	10.8	99.74	152.9	705.5	385.6	365.4	20.22	19.074	
5,100.0	5,071.5	5,064.1	4,989.5	10.1	11.0	98.57	157.6	726.1	405.7	385.2	20.56	19.738	
5,200.0	5,171.5	5,161.8	5,084.8	10.2	11.2	97.51	162.3	746.7	426.0	405.1	20.89	20.391	
5,300.0	5,271.5	5,259.4	5,180.2	10.3	11.4	96.54	167.0	767.3	446.4	425.2	21.23	21.031	
5,400.0	5,371.5	5,357.0	5,275.5	10.4	11.6	95.66	171.7	787.9	466.9	445.4	21.56	21.659	
5,500.0	5,471.5	5,454.7	5,370.8	10.5	11.8	94.85	176.4	808.5	487.5	465.7	21.89	22.275	
5,600.0	5,571.5	5,552.3	5,466.1	10.6	12.0	94.11	181.2	829.1	508.2	486.0	22.22	22.878	
5,700.0	5,671.5	5,649.9	5,561.4	10.6	12.3	93.43	185.9	849.7	529.0	506.5	22.54	23.468	
5,800.0	5,771.5	5,747.5	5,656.7	10.7	12.5	92.79	190.6	870.3	549.9	527.0	22.87	24.046	
5,900.0	5,871.5	5,850.3	5,757.1	10.8	12.7	92.18	195.5	891.8	570.5	547.3	23.27	24.514	
6,000.0	5,971.5	5,959.0	5,863.6	10.9	13.0	91.63	200.3	912.7	589.7	566.0	23.69	24.893	
6,100.0	6,071.5	6,068.5	5,971.3	11.0	13.3	91.16	204.7	931.9	607.1	583.1	24.02	25.272	
6,200.0	6,171.5	6,178.7	6,080.1	11.1	13.5	90.76	208.6	949.1	622.7	598.4	24.35	25.578	
6,300.0	6,271.5	6,289.5	6,189.8	11.2	13.7	90.42	212.1	964.4	636.5	611.8	24.66	25.812	
6,400.0	6,371.5	6,400.9	6,300.4	11.3	13.9	90.14	215.2	977.6	648.4	623.4	24.96	25.978	
6,500.0	6,471.5	6,512.8	6,411.7	11.3	14.1	89.92	217.7	988.9	658.4	633.1	25.25	26.079	
6,600.0	6,571.5	6,625.2	6,523.7	11.4	14.3	89.74	219.8	998.0	666.5	641.0	25.52	26.116	
6,700.0	6,671.5	6,737.8	6,636.1	11.5	14.5	89.60	221.4	1,005.0	672.7	646.9	25.78	26.094	
6,800.0	6,771.5	6,850.7	6,748.9	11.6	14.7	89.51	222.6	1,009.8	677.0	651.0	26.02	26.015	
6,900.0	6,871.5	6,963.7	6,861.9	11.7	14.9	89.46	223.2	1,012.5	679.4	653.2	26.25	25.885	
7,000.0	6,971.5	7,073.4	6,971.5	11.8	14.9	89.45	223.3	1,013.1	679.9	653.5	26.39	25.765	
7,100.0	7,071.5	7,173.4	7,071.5	11.9	15.0	89.45	223.3	1,013.1	679.9	653.4	26.52	25.641	
7,200.0	7,171.5	7,273.4	7,171.5	12.0	15.0	89.45	223.3	1,013.1	679.9	653.3	26.65	25.510	
7,300.0	7,271.5	7,373.4	7,271.5	12.0	15.1	89.45	223.3	1,013.1	679.9	653.1	26.79	25.381	
7,400.0	7,371.5	7,473.4	7,371.5	12.1	15.2	89.45	223.3	1,013.1	679.9	653.0	26.93	25.252	
7,500.0	7,471.5	7,573.4	7,471.5	12.2	15.2	89.45	223.3	1,013.1	679.9	652.9	27.06	25.124	
7,600.0	7,571.5	7,673.4	7,571.5	12.3	15.3	89.45	223.3	1,013.1	679.9	652.7	27.20	24.998	
7,700.0	7,671.5	7,773.4	7,671.5	12.4	15.3	89.45	223.3	1,013.1	679.9	652.6	27.34	24.872	
7,800.0	7,771.5	7,873.4	7,771.5	12.5	15.4	89.45	223.3	1,013.1	679.9	652.5	27.47	24.747	
7,900.0	7,871.5	7,973.4	7,871.5	12.6	15.4	89.45	223.3	1,013.1	679.9	652.3	27.61	24.624	
8,000.0	7,971.5	8,073.4	7,971.5	12.6	15.5	89.45	223.3	1,013.1	679.9	652.2	27.75	24.501	
8,100.0	8,071.5	8,173.4	8,071.5	12.7	15.5	89.45	223.3	1,013.1	679.9	652.0	27.89	24.380	
8,200.0	8,171.5	8,273.4	8,171.5	12.8	15.6	89.45	223.3	1,013.1	679.9	651.9	28.03	24.259	
8,300.0	8,271.5	8,373.4	8,271.5	12.9	15.7	89.45	223.3	1,013.1	679.9	651.8	28.17	24.140	
8,400.0	8,371.5	8,473.4	8,371.5	13.0	15.7	89.45	223.3	1,013.1	679.9	651.6	28.31	24.021	
8,500.0	8,471.5	8,573.4	8,471.5	13.1	15.8	89.45	223.3	1,013.1	679.9	651.5	28.44	23.903	
8,600.0	8,571.5	8,673.4	8,571.5	13.2	15.8	89.45	223.3	1,013.1	679.9	651.3	28.58	23.787	
8,700.0	8,671.5	8,773.4	8,671.5	13.2	15.9	89.45	223.3	1,013.1	679.9	651.2	28.72	23.671	
8,800.0	8,771.5	8,873.4	8,771.5	13.3	16.0	89.45	223.3	1,013.1	679.9	651.1	28.86	23.556	
8,900.0	8,871.5	8,973.4	8,871.5	13.4	16.0	89.45	223.3	1,013.1	679.9	650.9	29.00	23.442	
9,000.0	8,971.5	9,073.4	8,971.5	13.5	16.1	89.45	223.3	1,013.1	679.9	650.8	29.14	23.329	
9,100.0	9,071.5	9,173.4	9,071.5	13.6	16.1	89.45	223.3	1,013.1	679.9	650.6	29.29	23.217	
9,200.0	9,171.5	9,273.4	9,171.5	13.7	16.2	89.45	223.3	1,013.1	679.9	650.5	29.43	23.106	
9,300.0	9,271.5	9,373.4	9,271.5	13.8	16.3	89.45	223.3	1,013.1	679.9	650.4	29.57	22.996	
9,400.0	9,371.5	9,473.4	9,371.5	13.8	16.3	89.45	223.3	1,013.1	679.9	650.2	29.71	22.887	
9,500.0	9,471.5	9,573.4	9,471.5	13.9	16.4	89.45	223.3	1,013.1	679.9	650.1	29.85	22.778	
9,600.0	9,571.5	9,673.4	9,571.5	14.0	16.4	89.45	223.3	1,013.1	679.9	649.9	29.99	22.671	
9,700.0	9,671.5	9,773.4	9,671.5	14.1	16.5	89.45	223.3	1,013.1	679.9	649.8	30.13	22.564	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,771.5	9,873.4	9,771.5	14.2	16.6	89.45	223.3	1,013.1	679.9	649.7	30.28	22.458	
9,900.0	9,871.5	9,973.4	9,871.5	14.3	16.6	89.45	223.3	1,013.1	679.9	649.5	30.42	22.353	
10,000.0	9,971.5	10,073.4	9,971.5	14.4	16.7	89.45	223.3	1,013.1	679.9	649.4	30.56	22.249	
10,100.0	10,071.5	10,173.4	10,071.5	14.4	16.7	89.45	223.3	1,013.1	679.9	649.2	30.70	22.145	
10,200.0	10,171.5	10,273.4	10,171.5	14.5	16.8	89.45	223.3	1,013.1	679.9	649.1	30.85	22.043	
10,300.0	10,271.5	10,373.4	10,271.5	14.6	16.9	89.45	223.3	1,013.1	679.9	648.9	30.99	21.941	
10,400.0	10,371.5	10,473.4	10,371.5	14.7	16.9	89.45	223.3	1,013.1	679.9	648.8	31.13	21.840	
10,500.0	10,471.5	10,573.4	10,471.5	14.8	17.0	89.45	223.3	1,013.1	679.9	648.7	31.28	21.740	
10,600.0	10,571.5	10,673.4	10,571.5	14.9	17.1	89.45	223.3	1,013.1	679.9	648.5	31.42	21.641	
10,700.0	10,671.5	10,773.4	10,671.5	15.0	17.1	89.45	223.3	1,013.1	679.9	648.4	31.56	21.542	
10,800.0	10,771.5	10,873.4	10,771.5	15.0	17.2	89.45	223.3	1,013.1	679.9	648.2	31.71	21.445	
10,900.0	10,871.5	10,973.4	10,871.5	15.1	17.2	89.45	223.3	1,013.1	679.9	648.1	31.85	21.348	
11,000.0	10,971.5	11,073.4	10,971.5	15.2	17.3	89.45	223.3	1,013.1	679.9	647.9	31.99	21.251	
11,100.0	11,071.5	11,173.4	11,071.5	15.3	17.4	89.45	223.3	1,013.1	679.9	647.8	32.14	21.156	
11,200.0	11,171.5	11,273.4	11,171.5	15.4	17.4	89.45	223.3	1,013.1	679.9	647.6	32.28	21.061	
11,300.0	11,271.5	11,373.4	11,271.5	15.5	17.5	89.45	223.3	1,013.1	679.9	647.5	32.43	20.967	
11,400.0	11,371.5	11,473.4	11,371.5	15.6	17.6	89.45	223.3	1,013.1	679.9	647.4	32.57	20.874	
11,500.0	11,471.5	11,573.4	11,471.5	15.6	17.6	89.45	223.3	1,013.1	679.9	647.2	32.72	20.782	
11,600.0	11,571.5	11,673.4	11,571.5	15.7	17.7	89.45	223.3	1,013.1	679.9	647.1	32.86	20.690	
11,700.0	11,671.5	11,773.4	11,671.5	15.8	17.7	89.45	223.3	1,013.1	679.9	646.9	33.01	20.599	
11,800.0	11,771.5	11,873.4	11,771.5	15.9	17.8	89.45	223.3	1,013.1	679.9	646.8	33.15	20.508	
11,900.0	11,871.5	11,973.4	11,871.5	16.0	17.9	89.45	223.3	1,013.1	679.9	646.6	33.30	20.419	
11,947.0	11,918.5	12,020.4	11,918.5	16.0	17.9	89.45	223.3	1,013.1	679.9	646.6	33.35	20.389	
11,950.0	11,921.5	12,023.4	11,921.5	16.0	17.9	-90.18	223.3	1,013.1	679.9	646.6	33.35	20.388	
11,975.0	11,946.5	12,048.5	11,946.6	16.0	17.9	-90.21	222.9	1,013.1	679.9	646.6	33.37	20.378	
12,000.0	11,971.4	12,073.6	11,971.7	16.0	17.9	-90.24	221.2	1,013.1	679.9	646.6	33.37	20.375	
12,025.0	11,996.2	12,098.8	11,996.6	16.0	17.9	-90.28	218.1	1,013.1	679.9	646.6	33.37	20.374	
12,050.0	12,020.7	12,123.9	12,021.4	16.0	17.9	-90.31	213.8	1,013.2	679.9	646.6	33.38	20.372	
12,075.0	12,045.0	12,149.1	12,046.0	16.1	17.9	-90.34	208.1	1,013.2	679.9	646.6	33.38	20.371	
12,100.0	12,068.9	12,174.4	12,070.2	16.1	17.9	-90.37	201.2	1,013.2	679.9	646.6	33.38	20.371	
12,125.0	12,092.4	12,199.6	12,094.1	16.1	18.0	-90.40	192.9	1,013.3	679.9	646.6	33.38	20.371	
12,150.0	12,115.4	12,224.9	12,117.5	16.1	18.0	-90.43	183.4	1,013.4	679.9	646.6	33.38	20.371	
12,175.0	12,137.9	12,250.1	12,140.4	16.1	18.0	-90.46	172.7	1,013.4	680.0	646.6	33.38	20.370	
12,200.0	12,159.8	12,275.4	12,162.7	16.1	18.0	-90.49	160.8	1,013.5	680.0	646.6	33.38	20.370	
12,225.0	12,181.1	12,300.7	12,184.4	16.1	18.0	-90.51	147.7	1,013.6	680.0	646.6	33.38	20.368	
12,250.0	12,201.6	12,326.1	12,205.3	16.1	18.0	-90.54	133.5	1,013.7	680.0	646.6	33.39	20.366	
12,275.0	12,221.3	12,351.4	12,225.5	16.2	18.0	-90.56	118.1	1,013.8	680.0	646.6	33.39	20.363	
12,300.0	12,240.2	12,376.8	12,244.8	16.2	18.0	-90.58	101.7	1,013.9	680.0	646.6	33.40	20.358	
12,325.0	12,258.2	12,402.2	12,263.3	16.2	18.1	-90.60	84.3	1,014.0	680.0	646.6	33.41	20.352	
12,350.0	12,275.3	12,427.5	12,280.8	16.2	18.1	-90.62	66.0	1,014.1	680.0	646.5	33.42	20.343	
12,375.0	12,291.5	12,452.9	12,297.3	16.2	18.1	-90.63	46.7	1,014.3	680.0	646.5	33.44	20.333	
12,400.0	12,306.5	12,478.3	12,312.8	16.3	18.1	-90.65	26.5	1,014.4	680.0	646.5	33.46	20.320	
12,425.0	12,320.6	12,503.7	12,327.2	16.3	18.2	-90.66	5.6	1,014.5	680.0	646.5	33.49	20.304	
12,450.0	12,333.5	12,529.2	12,340.4	16.3	18.2	-90.67	-16.1	1,014.7	680.0	646.5	33.52	20.285	
12,475.0	12,345.3	12,554.6	12,352.5	16.3	18.2	-90.68	-38.5	1,014.8	680.0	646.4	33.56	20.263	
12,500.0	12,355.9	12,580.0	12,363.4	16.3	18.3	-90.69	-61.4	1,015.0	680.0	646.4	33.60	20.238	
12,525.0	12,365.3	12,605.5	12,373.0	16.4	18.3	-90.69	-85.0	1,015.1	680.0	646.3	33.65	20.210	
12,550.0	12,373.5	12,630.9	12,381.4	16.4	18.3	-90.70	-109.0	1,015.3	680.0	646.3	33.70	20.178	
12,575.0	12,380.5	12,656.3	12,388.5	16.4	18.4	-90.70	-133.4	1,015.4	680.0	646.2	33.76	20.143	
12,600.0	12,386.2	12,681.8	12,394.3	16.4	18.4	-90.70	-158.2	1,015.6	680.0	646.2	33.82	20.105	
12,625.0	12,390.6	12,707.2	12,398.7	16.5	18.5	-90.69	-183.2	1,015.8	680.0	646.1	33.89	20.064	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,650.0	12,393.7	12,732.7	12,401.8	16.5	18.5	-90.69	-208.5	1,015.9	680.0	646.0	33.97	20.019	
12,675.0	12,395.5	12,758.1	12,403.6	16.5	18.6	-90.68	-233.9	1,016.1	680.0	645.9	34.05	19.972	
12,696.7	12,396.0	12,780.2	12,404.0	16.6	18.6	-90.67	-255.9	1,016.2	680.0	645.9	34.12	19.930	
12,697.0	12,396.0	12,780.5	12,404.0	16.6	18.6	-90.67	-256.2	1,016.2	680.0	645.9	34.12	19.929	
12,700.0	12,396.0	12,783.4	12,404.0	16.6	18.6	-90.67	-259.2	1,016.2	680.0	645.8	34.13	19.923	
12,800.0	12,396.0	12,883.4	12,404.0	16.7	18.8	-90.67	-359.2	1,016.9	680.0	645.4	34.55	19.678	
12,900.0	12,396.0	12,983.4	12,404.0	16.9	19.1	-90.67	-459.2	1,017.5	680.0	644.9	35.06	19.396	
13,000.0	12,396.0	13,083.4	12,404.0	17.2	19.3	-90.67	-559.2	1,018.2	680.0	644.3	35.64	19.081	
13,100.0	12,396.0	13,183.4	12,404.0	17.4	19.6	-90.67	-659.2	1,018.9	680.0	643.7	36.29	18.739	
13,200.0	12,396.0	13,283.4	12,404.0	17.8	20.0	-90.67	-759.2	1,019.5	680.0	643.0	37.00	18.376	
13,300.0	12,396.0	13,383.4	12,404.0	18.2	20.3	-90.67	-859.2	1,020.2	680.0	642.2	37.79	17.996	
13,400.0	12,396.0	13,483.4	12,404.0	18.6	20.7	-90.67	-959.2	1,020.8	680.0	641.4	38.63	17.604	
13,500.0	12,396.0	13,583.4	12,404.0	19.1	21.2	-90.67	-1,059.2	1,021.5	680.0	640.5	39.52	17.204	
13,600.0	12,396.0	13,683.4	12,404.0	19.5	21.6	-90.67	-1,159.2	1,022.1	680.0	639.5	40.47	16.801	
13,700.0	12,396.0	13,783.4	12,404.0	20.1	22.1	-90.67	-1,259.2	1,022.8	680.0	638.5	41.47	16.396	
13,800.0	12,396.0	13,883.4	12,404.0	20.6	22.6	-90.67	-1,359.2	1,023.4	680.0	637.5	42.51	15.994	
13,900.0	12,396.0	13,983.4	12,404.0	21.2	23.1	-90.67	-1,459.2	1,024.1	680.0	636.4	43.60	15.596	
14,000.0	12,396.0	14,083.4	12,404.0	21.7	23.6	-90.67	-1,559.2	1,024.7	680.0	635.3	44.72	15.204	
14,100.0	12,396.0	14,183.4	12,404.0	22.3	24.2	-90.67	-1,659.2	1,025.4	680.0	634.1	45.88	14.820	
14,200.0	12,396.0	14,283.4	12,404.0	23.0	24.7	-90.67	-1,759.2	1,026.0	680.0	632.9	47.08	14.444	
14,300.0	12,396.0	14,383.4	12,404.0	23.6	25.3	-90.67	-1,859.2	1,026.7	680.0	631.7	48.30	14.078	
14,400.0	12,396.0	14,483.4	12,404.0	24.2	25.9	-90.67	-1,959.2	1,027.3	680.0	630.4	49.55	13.722	
14,500.0	12,396.0	14,583.4	12,404.0	24.9	26.5	-90.67	-2,059.2	1,028.0	680.0	629.2	50.83	13.377	
14,600.0	12,396.0	14,683.4	12,404.0	25.6	27.2	-90.67	-2,159.1	1,028.6	680.0	627.9	52.14	13.043	
14,700.0	12,396.0	14,783.4	12,404.0	26.3	27.8	-90.67	-2,259.1	1,029.3	680.0	626.5	53.46	12.720	
14,800.0	12,396.0	14,883.4	12,404.0	27.0	28.5	-90.67	-2,359.1	1,029.9	680.0	625.2	54.81	12.407	
14,900.0	12,396.0	14,983.4	12,404.0	27.7	29.1	-90.67	-2,459.1	1,030.6	680.0	623.8	56.17	12.105	
15,000.0	12,396.0	15,083.4	12,404.0	28.4	29.8	-90.67	-2,559.1	1,031.2	680.0	622.4	57.56	11.814	
15,100.0	12,396.0	15,183.4	12,404.0	29.1	30.5	-90.67	-2,659.1	1,031.9	680.0	621.0	58.96	11.534	
15,200.0	12,396.0	15,283.4	12,404.0	29.8	31.2	-90.67	-2,759.1	1,032.5	680.0	619.6	60.37	11.263	
15,300.0	12,396.0	15,383.4	12,404.0	30.6	31.9	-90.67	-2,859.1	1,033.2	680.0	618.2	61.80	11.002	
15,400.0	12,396.0	15,483.4	12,404.0	31.3	32.6	-90.67	-2,959.1	1,033.8	680.0	616.8	63.25	10.751	
15,500.0	12,396.0	15,583.4	12,404.0	32.1	33.3	-90.67	-3,059.1	1,034.5	680.0	615.3	64.71	10.509	
15,600.0	12,396.0	15,683.4	12,404.0	32.8	34.1	-90.67	-3,159.1	1,035.2	680.0	613.8	66.17	10.276	
15,700.0	12,396.0	15,783.4	12,404.0	33.6	34.8	-90.67	-3,259.1	1,035.8	680.0	612.3	67.65	10.051	
15,800.0	12,396.0	15,883.4	12,404.0	34.3	35.5	-90.67	-3,359.1	1,036.5	680.0	610.9	69.14	9.835	
15,900.0	12,396.0	15,983.4	12,404.0	35.1	36.3	-90.67	-3,459.1	1,037.1	680.0	609.4	70.64	9.626	
16,000.0	12,396.0	16,083.4	12,404.0	35.9	37.0	-90.67	-3,559.1	1,037.8	680.0	607.9	72.15	9.425	
16,100.0	12,396.0	16,183.4	12,404.0	36.7	37.8	-90.67	-3,659.1	1,038.4	680.0	606.3	73.67	9.231	
16,200.0	12,396.0	16,283.4	12,404.0	37.4	38.5	-90.67	-3,759.1	1,039.1	680.0	604.8	75.19	9.044	
16,300.0	12,396.0	16,383.4	12,404.0	38.2	39.3	-90.67	-3,859.1	1,039.7	680.0	603.3	76.72	8.863	
16,400.0	12,396.0	16,483.4	12,404.0	39.0	40.1	-90.67	-3,959.1	1,040.4	680.0	601.7	78.26	8.689	
16,500.0	12,396.0	16,583.4	12,404.0	39.8	40.8	-90.67	-4,059.1	1,041.0	680.0	600.2	79.81	8.520	
16,600.0	12,396.0	16,683.4	12,404.0	40.6	41.6	-90.67	-4,159.1	1,041.7	680.0	598.6	81.36	8.358	
16,700.0	12,396.0	16,783.4	12,404.0	41.4	42.4	-90.67	-4,259.1	1,042.3	680.0	597.1	82.92	8.201	
16,800.0	12,396.0	16,883.4	12,404.0	42.2	43.2	-90.67	-4,359.1	1,043.0	680.0	595.5	84.48	8.049	
16,900.0	12,396.0	16,983.4	12,404.0	43.0	44.0	-90.67	-4,459.1	1,043.6	680.0	594.0	86.05	7.902	
17,000.0	12,396.0	17,083.4	12,404.0	43.8	44.7	-90.67	-4,559.1	1,044.3	680.0	592.4	87.63	7.760	
17,100.0	12,396.0	17,183.4	12,404.0	44.6	45.5	-90.67	-4,659.1	1,044.9	680.0	590.8	89.20	7.623	
17,200.0	12,396.0	17,283.4	12,404.0	45.4	46.3	-90.67	-4,759.1	1,045.6	680.0	589.2	90.79	7.490	
17,300.0	12,396.0	17,383.4	12,404.0	46.2	47.1	-90.67	-4,859.1	1,046.2	680.0	587.6	92.37	7.362	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,400.0	12,396.0	17,483.4	12,404.0	47.0	47.9	-90.67	-4,959.1	1,046.9	680.0	586.1	93.96	7.237	
17,500.0	12,396.0	17,583.4	12,404.0	47.9	48.7	-90.67	-5,059.1	1,047.5	680.0	584.5	95.56	7.116	
17,600.0	12,396.0	17,683.4	12,404.0	48.7	49.5	-90.67	-5,159.1	1,048.2	680.0	582.9	97.15	6.999	
17,700.0	12,396.0	17,783.4	12,404.0	49.5	50.3	-90.67	-5,259.1	1,048.8	680.0	581.3	98.76	6.886	
17,800.0	12,396.0	17,883.4	12,404.0	50.3	51.1	-90.67	-5,359.1	1,049.5	680.0	579.7	100.36	6.776	
17,900.0	12,396.0	17,983.4	12,404.0	51.1	51.9	-90.67	-5,459.1	1,050.1	680.0	578.0	101.97	6.669	
18,000.0	12,396.0	18,083.4	12,404.0	52.0	52.7	-90.67	-5,559.1	1,050.8	680.0	576.4	103.58	6.565	
18,100.0	12,396.0	18,183.4	12,404.0	52.8	53.5	-90.67	-5,659.1	1,051.5	680.0	574.8	105.19	6.464	
18,200.0	12,396.0	18,283.4	12,404.0	53.6	54.4	-90.67	-5,759.1	1,052.1	680.0	573.2	106.81	6.367	
18,300.0	12,396.0	18,383.4	12,404.0	54.4	55.2	-90.67	-5,859.1	1,052.8	680.0	571.6	108.43	6.271	
18,400.0	12,396.0	18,483.4	12,404.0	55.2	56.0	-90.67	-5,959.1	1,053.4	680.0	570.0	110.05	6.179	
18,500.0	12,396.0	18,583.4	12,404.0	56.1	56.8	-90.67	-6,059.1	1,054.1	680.0	568.3	111.68	6.089	
18,600.0	12,396.0	18,683.4	12,404.0	56.9	57.6	-90.67	-6,159.1	1,054.7	680.0	566.7	113.30	6.002	
18,700.0	12,396.0	18,783.4	12,404.0	57.7	58.4	-90.67	-6,259.1	1,055.4	680.0	565.1	114.93	5.917	
18,800.0	12,396.0	18,883.4	12,404.0	58.6	59.3	-90.67	-6,359.1	1,056.0	680.0	563.5	116.56	5.834	
18,900.0	12,396.0	18,983.4	12,404.0	59.4	60.1	-90.67	-6,459.1	1,056.7	680.0	561.8	118.20	5.753	
19,000.0	12,396.0	19,083.4	12,404.0	60.2	60.9	-90.67	-6,559.1	1,057.3	680.0	560.2	119.83	5.675	
19,100.0	12,396.0	19,183.4	12,404.0	61.1	61.7	-90.67	-6,659.1	1,058.0	680.0	558.6	121.47	5.598	
19,200.0	12,396.0	19,283.4	12,404.0	61.9	62.6	-90.67	-6,759.1	1,058.6	680.0	556.9	123.11	5.524	
19,300.0	12,396.0	19,383.4	12,404.0	62.7	63.4	-90.67	-6,859.0	1,059.3	680.0	555.3	124.75	5.451	
19,400.0	12,396.0	19,483.4	12,404.0	63.6	64.2	-90.67	-6,959.0	1,059.9	680.0	553.6	126.39	5.381	
19,500.0	12,396.0	19,583.4	12,404.0	64.4	65.0	-90.67	-7,059.0	1,060.6	680.0	552.0	128.03	5.311	
19,600.0	12,396.0	19,683.4	12,404.0	65.2	65.9	-90.67	-7,159.0	1,061.2	680.0	550.4	129.67	5.244	
19,700.0	12,396.0	19,783.4	12,404.0	66.1	66.7	-90.67	-7,259.0	1,061.9	680.0	548.7	131.32	5.178	
19,800.0	12,396.0	19,883.4	12,404.0	66.9	67.5	-90.67	-7,359.0	1,062.5	680.0	547.1	132.97	5.114	
19,900.0	12,396.0	19,983.4	12,404.0	67.8	68.4	-90.67	-7,459.0	1,063.2	680.0	545.4	134.62	5.052	
20,000.0	12,396.0	20,083.4	12,404.0	68.6	69.2	-90.67	-7,559.0	1,063.8	680.0	543.8	136.27	4.990	
20,100.0	12,396.0	20,183.4	12,404.0	69.4	70.0	-90.67	-7,659.0	1,064.5	680.0	542.1	137.92	4.931	
20,200.0	12,396.0	20,283.4	12,404.0	70.3	70.9	-90.67	-7,759.0	1,065.1	680.0	540.5	139.57	4.872	
20,300.0	12,396.0	20,383.4	12,404.0	71.1	71.7	-90.67	-7,859.0	1,065.8	680.0	538.8	141.22	4.815	
20,400.0	12,396.0	20,483.4	12,404.0	72.0	72.5	-90.67	-7,959.0	1,066.4	680.0	537.2	142.88	4.760	
20,500.0	12,396.0	20,583.4	12,404.0	72.8	73.4	-90.67	-8,059.0	1,067.1	680.0	535.5	144.54	4.705	
20,600.0	12,396.0	20,683.4	12,404.0	73.6	74.2	-90.67	-8,159.0	1,067.8	680.0	533.8	146.19	4.652	
20,700.0	12,396.0	20,783.4	12,404.0	74.5	75.0	-90.67	-8,259.0	1,068.4	680.0	532.2	147.85	4.600	
20,800.0	12,396.0	20,883.4	12,404.0	75.3	75.9	-90.67	-8,359.0	1,069.1	680.0	530.5	149.51	4.548	
20,900.0	12,396.0	20,983.4	12,404.0	76.2	76.7	-90.67	-8,459.0	1,069.7	680.0	528.9	151.17	4.499	
21,000.0	12,396.0	21,083.4	12,404.0	77.0	77.5	-90.67	-8,559.0	1,070.4	680.0	527.2	152.83	4.450	
21,100.0	12,396.0	21,183.4	12,404.0	77.9	78.4	-90.67	-8,659.0	1,071.0	680.0	525.6	154.49	4.402	
21,200.0	12,396.0	21,283.4	12,404.0	78.7	79.2	-90.67	-8,759.0	1,071.7	680.0	523.9	156.15	4.355	
21,300.0	12,396.0	21,383.4	12,404.0	79.5	80.1	-90.67	-8,859.0	1,072.3	680.0	522.2	157.82	4.309	
21,400.0	12,396.0	21,483.4	12,404.0	80.4	80.9	-90.67	-8,959.0	1,073.0	680.0	520.6	159.48	4.264	
21,500.0	12,396.0	21,583.4	12,404.0	81.2	81.7	-90.67	-9,059.0	1,073.6	680.0	518.9	161.15	4.220	
21,600.0	12,396.0	21,683.4	12,404.0	82.1	82.6	-90.67	-9,159.0	1,074.3	680.0	517.2	162.81	4.177	
21,700.0	12,396.0	21,783.4	12,404.0	82.9	83.4	-90.67	-9,259.0	1,074.9	680.0	515.6	164.48	4.135	
21,800.0	12,396.0	21,883.4	12,404.0	83.8	84.3	-90.67	-9,359.0	1,075.6	680.0	513.9	166.14	4.093	
21,900.0	12,396.0	21,983.4	12,404.0	84.6	85.1	-90.67	-9,459.0	1,076.2	680.1	512.2	167.81	4.052	
22,000.0	12,396.0	22,083.4	12,404.0	85.5	86.0	-90.67	-9,559.0	1,076.9	680.1	510.6	169.48	4.013	
22,100.0	12,396.0	22,183.4	12,404.0	86.3	86.8	-90.67	-9,659.0	1,077.5	680.1	508.9	171.15	3.973	
22,200.0	12,396.0	22,283.4	12,404.0	87.2	87.6	-90.67	-9,759.0	1,078.2	680.1	507.2	172.82	3.935	
22,300.0	12,396.0	22,383.4	12,404.0	88.0	88.5	-90.67	-9,859.0	1,078.8	680.1	505.6	174.49	3.897	
22,400.0	12,396.0	22,483.4	12,404.0	88.9	89.3	-90.67	-9,959.0	1,079.5	680.1	503.9	176.16	3.860	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 701H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 12028-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
22,500.0	12,396.0	22,583.4	12,404.0	89.7	90.2	-90.67	-10,059.0	1,080.1	680.1	502.2	177.83	3.824	
22,600.0	12,396.0	22,683.4	12,404.0	90.6	91.0	-90.67	-10,159.0	1,080.8	680.1	500.6	179.50	3.789	
22,631.5	12,396.0	22,714.9	12,404.0	90.8	91.3	-90.67	-10,190.5	1,081.0	680.1	500.0	180.03	3.778	
22,636.4	12,396.0	22,719.9	12,404.0	90.9	91.3	-90.67	-10,195.4	1,081.0	680.1	500.0	180.11	3.776	
22,681.5	12,396.0	22,763.3	12,404.0	91.3	91.7	-90.67	-10,238.8	1,081.3	680.1	499.2	180.86	3.760 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.43	-0.3	-40.1	40.1				
100.0	100.0	99.0	99.0	0.6	0.6	-90.43	-0.3	-40.1	40.1	38.2	1.91	21.044	
200.0	200.0	199.0	199.0	1.1	1.0	-90.43	-0.3	-40.1	40.1	37.3	2.84	14.107	
300.0	300.0	299.0	299.0	1.4	1.4	-90.43	-0.3	-40.1	40.1	36.6	3.47	11.558	
400.0	400.0	399.0	399.0	1.7	1.7	-90.43	-0.3	-40.1	40.1	36.1	3.97	10.089	
500.0	500.0	499.0	499.0	1.9	1.9	-90.43	-0.3	-40.1	40.1	35.7	4.41	9.094	
600.0	600.0	599.0	599.0	2.1	2.1	-90.43	-0.3	-40.1	40.1	35.3	4.80	8.359	
700.0	700.0	699.0	699.0	2.3	2.3	-90.43	-0.3	-40.1	40.1	35.0	5.15	7.786	
800.0	800.0	799.0	799.0	2.5	2.5	-90.43	-0.3	-40.1	40.1	34.6	5.48	7.322	
900.0	900.0	899.0	899.0	2.7	2.7	-90.43	-0.3	-40.1	40.1	34.3	5.78	6.935	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.43	-0.3	-40.1	40.1	34.0	6.07	6.607	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.43	-0.3	-40.1	40.1	33.8	6.34	6.323	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.43	-0.3	-40.1	40.1	33.5	6.60	6.074	CC, ES
1,300.0	1,300.0	1,299.0	1,299.0	3.5	3.4	-132.26	-0.3	-40.1	41.3	34.3	6.92	5.961	
1,400.0	1,399.8	1,398.8	1,398.8	3.8	3.5	-137.15	-0.3	-40.1	44.9	37.6	7.37	6.097	
1,500.0	1,499.5	1,498.5	1,498.5	4.1	3.7	-143.64	-0.3	-40.1	51.7	43.8	7.85	6.581	
1,600.0	1,598.7	1,597.7	1,597.7	4.4	3.8	-150.23	-0.3	-40.1	61.9	53.7	8.20	7.553	
1,700.0	1,697.7	1,696.7	1,696.7	4.6	4.0	-155.55	-0.3	-40.1	74.4	65.8	8.59	8.652	
1,800.0	1,796.7	1,795.7	1,795.7	4.8	4.1	-171.82	-0.3	-40.1	88.1	79.2	8.95	9.845	
1,851.5	1,847.6	1,846.6	1,846.6	4.8	4.2	-178.38	-0.3	-40.1	95.9	86.9	9.07	10.580	
1,900.0	1,895.5	1,894.5	1,894.5	4.9	4.3	-178.50	-0.3	-40.1	103.5	94.3	9.17	11.286	
2,000.0	1,994.3	1,993.3	1,993.3	5.1	4.4	-178.70	-0.3	-40.1	119.2	109.7	9.48	12.566	
2,100.0	2,093.0	2,092.0	2,092.0	5.3	4.6	-178.85	-0.3	-40.1	134.8	124.9	9.86	13.666	
2,200.0	2,191.8	2,190.8	2,190.8	5.5	4.8	-178.97	-0.3	-40.1	150.5	140.2	10.23	14.706	
2,300.0	2,290.6	2,287.6	2,287.6	5.6	4.9	-178.63	0.5	-41.2	166.6	156.0	10.59	15.727	
2,400.0	2,389.3	2,383.7	2,383.6	5.8	5.1	-177.42	3.3	-44.7	184.1	173.2	10.93	16.841	
2,500.0	2,488.1	2,479.0	2,478.5	6.0	5.3	-175.59	8.1	-50.8	203.1	191.8	11.26	18.031	
2,600.0	2,586.9	2,574.1	2,573.1	6.2	5.4	-173.35	14.7	-59.2	223.7	212.1	11.52	19.418	
2,700.0	2,685.6	2,671.5	2,669.7	6.4	5.6	-171.26	22.0	-68.5	245.0	233.2	11.82	20.728	
2,800.0	2,784.4	2,768.8	2,766.3	6.6	5.7	-169.50	29.4	-77.9	266.6	254.4	12.14	21.951	
2,900.0	2,883.2	2,866.1	2,862.9	6.8	5.9	-168.01	36.7	-87.2	288.4	275.9	12.47	23.122	
3,000.0	2,981.9	2,963.5	2,959.5	7.0	6.0	-166.72	44.0	-96.5	310.3	297.5	12.80	24.242	
3,100.0	3,080.7	3,060.8	3,056.1	7.2	6.2	-165.61	51.4	-105.9	332.4	319.3	13.13	25.313	
3,200.0	3,179.5	3,158.1	3,152.7	7.4	6.3	-164.63	58.7	-115.2	354.6	341.2	13.47	26.337	
3,300.0	3,278.2	3,255.5	3,249.4	7.6	6.5	-163.77	66.0	-124.5	376.9	363.1	13.80	27.316	
3,400.0	3,377.0	3,352.8	3,346.0	7.8	6.6	-163.01	73.3	-133.9	399.3	385.1	14.13	28.252	
3,500.0	3,475.8	3,450.2	3,442.6	8.0	6.8	-162.32	80.7	-143.2	421.7	407.2	14.47	29.149	
3,547.2	3,522.4	3,496.1	3,488.2	8.0	6.9	-162.02	84.1	-147.6	432.3	417.7	14.60	29.615	
3,600.0	3,574.6	3,547.5	3,539.2	8.1	6.9	-161.73	88.0	-152.5	443.9	429.2	14.75	30.107	
3,700.0	3,673.6	3,645.2	3,636.2	8.3	7.1	-161.17	95.4	-161.9	464.8	449.7	15.08	30.828	
3,800.0	3,772.9	3,743.2	3,733.4	8.5	7.3	-160.59	102.7	-171.3	484.1	468.7	15.41	31.423	
3,900.0	3,872.3	3,841.5	3,831.0	8.7	7.4	-159.99	110.1	-180.7	501.8	486.1	15.73	31.902	
4,000.0	3,972.0	3,940.0	3,928.7	8.9	7.6	-159.36	117.6	-190.1	518.0	501.9	16.05	32.274	
4,100.0	4,071.7	4,038.7	4,026.7	9.0	7.8	-158.70	125.0	-199.6	532.6	516.3	16.36	32.548	
4,200.0	4,171.6	4,137.6	4,124.8	9.2	7.9	-158.00	132.4	-209.1	545.8	529.1	16.67	32.733	
4,300.0	4,271.5	4,236.6	4,223.1	9.4	8.1	-157.27	139.9	-218.6	557.4	540.4	16.97	32.839	
4,400.0	4,371.5	4,335.8	4,321.6	9.5	8.3	-156.49	147.4	-228.1	567.5	550.2	17.26	32.878	
4,447.5	4,419.0	4,382.9	4,368.3	9.6	8.4	-96.64	150.9	-232.6	571.8	554.4	17.36	32.943	
4,500.0	4,471.5	4,435.0	4,420.1	9.6	8.5	-96.20	154.8	-237.6	576.4	558.9	17.45	33.024	
4,600.0	4,571.5	4,534.3	4,518.6	9.7	8.6	-95.37	162.3	-247.1	585.2	567.5	17.69	33.085	
4,700.0	4,671.5	4,633.5	4,617.1	9.8	8.8	-94.56	169.8	-256.6	594.1	576.2	17.92	33.148	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,771.5	4,732.8	4,715.6	9.8	9.0	-93.78	177.2	-266.1	603.2	585.0	18.16	33.208	
4,900.0	4,871.5	4,834.4	4,816.5	9.9	9.2	-93.00	184.9	-275.8	612.3	593.8	18.41	33.252	
5,000.0	4,971.5	4,942.6	4,924.1	10.0	9.3	-92.29	192.0	-285.0	620.4	601.7	18.67	33.224	
5,100.0	5,071.5	5,051.3	5,032.3	10.1	9.5	-91.72	198.0	-292.6	627.2	608.3	18.94	33.123	
5,200.0	5,171.5	5,160.3	5,141.1	10.2	9.7	-91.28	202.7	-298.5	632.6	613.4	19.19	32.959	
5,300.0	5,271.5	5,269.5	5,250.2	10.3	9.9	-90.96	206.1	-302.9	636.5	617.1	19.44	32.736	
5,400.0	5,371.5	5,378.9	5,359.5	10.4	10.1	-90.77	208.2	-305.6	639.0	619.3	19.69	32.459	
5,500.0	5,471.5	5,488.5	5,469.0	10.5	10.2	-90.69	209.1	-306.7	639.9	620.0	19.91	32.145	
5,600.0	5,571.5	5,589.9	5,570.5	10.6	10.3	-90.69	209.1	-306.7	639.9	619.9	20.09	31.859	
5,700.0	5,671.5	5,689.9	5,670.5	10.6	10.4	-90.69	209.1	-306.7	639.9	619.7	20.26	31.580	
5,800.0	5,771.5	5,789.9	5,770.5	10.7	10.5	-90.69	209.1	-306.7	639.9	619.5	20.44	31.305	
5,900.0	5,871.5	5,889.9	5,870.5	10.8	10.5	-90.69	209.1	-306.7	639.9	619.3	20.62	31.036	
6,000.0	5,971.5	5,989.9	5,970.5	10.9	10.6	-90.69	209.1	-306.7	639.9	619.1	20.80	30.771	
6,100.0	6,071.5	6,089.9	6,070.5	11.0	10.7	-90.69	209.1	-306.7	639.9	619.0	20.97	30.512	
6,200.0	6,171.5	6,189.9	6,170.5	11.1	10.8	-90.69	209.1	-306.7	639.9	618.8	21.15	30.257	
6,300.0	6,271.5	6,289.9	6,270.5	11.2	10.9	-90.69	209.1	-306.7	639.9	618.6	21.33	30.006	
6,400.0	6,371.5	6,389.9	6,370.5	11.3	11.0	-90.69	209.1	-306.7	639.9	618.4	21.50	29.761	
6,500.0	6,471.5	6,489.9	6,470.5	11.3	11.1	-90.69	209.1	-306.7	639.9	618.3	21.68	29.519	
6,600.0	6,571.5	6,589.9	6,570.5	11.4	11.1	-90.69	209.1	-306.7	639.9	618.1	21.85	29.282	
6,700.0	6,671.5	6,689.9	6,670.5	11.5	11.2	-90.69	209.1	-306.7	639.9	617.9	22.03	29.049	
6,800.0	6,771.5	6,789.9	6,770.5	11.6	11.3	-90.69	209.1	-306.7	639.9	617.7	22.21	28.819	
6,900.0	6,871.5	6,889.9	6,870.5	11.7	11.4	-90.69	209.1	-306.7	639.9	617.6	22.38	28.594	
7,000.0	6,971.5	6,989.9	6,970.5	11.8	11.5	-90.69	209.1	-306.7	639.9	617.4	22.56	28.372	
7,100.0	7,071.5	7,089.9	7,070.5	11.9	11.6	-90.69	209.1	-306.7	639.9	617.2	22.73	28.155	
7,200.0	7,171.5	7,189.9	7,170.5	12.0	11.7	-90.69	209.1	-306.7	639.9	617.0	22.90	27.940	
7,300.0	7,271.5	7,289.9	7,270.5	12.0	11.7	-90.69	209.1	-306.7	639.9	616.9	23.08	27.729	
7,400.0	7,371.5	7,389.9	7,370.5	12.1	11.8	-90.69	209.1	-306.7	639.9	616.7	23.25	27.522	
7,500.0	7,471.5	7,489.9	7,470.5	12.2	11.9	-90.69	209.1	-306.7	639.9	616.5	23.43	27.318	
7,600.0	7,571.5	7,589.9	7,570.5	12.3	12.0	-90.69	209.1	-306.7	639.9	616.3	23.60	27.117	
7,700.0	7,671.5	7,689.9	7,670.5	12.4	12.1	-90.69	209.1	-306.7	639.9	616.2	23.77	26.919	
7,800.0	7,771.5	7,789.9	7,770.5	12.5	12.2	-90.69	209.1	-306.7	639.9	616.0	23.95	26.724	
7,900.0	7,871.5	7,889.9	7,870.5	12.6	12.3	-90.69	209.1	-306.7	639.9	615.8	24.12	26.533	
8,000.0	7,971.5	7,989.9	7,970.5	12.6	12.3	-90.69	209.1	-306.7	639.9	615.7	24.29	26.344	
8,100.0	8,071.5	8,089.9	8,070.5	12.7	12.4	-90.69	209.1	-306.7	639.9	615.5	24.46	26.158	
8,200.0	8,171.5	8,189.9	8,170.5	12.8	12.5	-90.69	209.1	-306.7	639.9	615.3	24.64	25.975	
8,300.0	8,271.5	8,289.9	8,270.5	12.9	12.6	-90.69	209.1	-306.7	639.9	615.1	24.81	25.794	
8,400.0	8,371.5	8,389.9	8,370.5	13.0	12.7	-90.69	209.1	-306.7	639.9	615.0	24.98	25.616	
8,500.0	8,471.5	8,489.9	8,470.5	13.1	12.8	-90.69	209.1	-306.7	639.9	614.8	25.15	25.441	
8,600.0	8,571.5	8,589.9	8,570.5	13.2	12.9	-90.69	209.1	-306.7	639.9	614.6	25.33	25.268	
8,700.0	8,671.5	8,689.9	8,670.5	13.2	12.9	-90.69	209.1	-306.7	639.9	614.4	25.50	25.098	
8,800.0	8,771.5	8,789.9	8,770.5	13.3	13.0	-90.69	209.1	-306.7	639.9	614.3	25.67	24.930	
8,900.0	8,871.5	8,889.9	8,870.5	13.4	13.1	-90.69	209.1	-306.7	639.9	614.1	25.84	24.765	
9,000.0	8,971.5	8,989.9	8,970.5	13.5	13.2	-90.69	209.1	-306.7	639.9	613.9	26.01	24.602	
9,100.0	9,071.5	9,089.9	9,070.5	13.6	13.3	-90.69	209.1	-306.7	639.9	613.8	26.18	24.441	
9,200.0	9,171.5	9,189.9	9,170.5	13.7	13.4	-90.69	209.1	-306.7	639.9	613.6	26.35	24.282	
9,300.0	9,271.5	9,289.9	9,270.5	13.8	13.4	-90.69	209.1	-306.7	639.9	613.4	26.53	24.126	
9,400.0	9,371.5	9,389.9	9,370.5	13.8	13.5	-90.69	209.1	-306.7	639.9	613.2	26.70	23.971	
9,500.0	9,471.5	9,489.9	9,470.5	13.9	13.6	-90.69	209.1	-306.7	639.9	613.1	26.87	23.819	
9,600.0	9,571.5	9,589.9	9,570.5	14.0	13.7	-90.69	209.1	-306.7	639.9	612.9	27.04	23.669	
9,700.0	9,671.5	9,689.9	9,670.5	14.1	13.8	-90.69	209.1	-306.7	639.9	612.7	27.21	23.520	
9,800.0	9,771.5	9,789.9	9,770.5	14.2	13.9	-90.69	209.1	-306.7	639.9	612.6	27.38	23.374	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,900.0	9,871.5	9,889.9	9,870.5	14.3	14.0	-90.69	209.1	-306.7	639.9	612.4	27.55	23.230	
10,000.0	9,971.5	9,989.9	9,970.5	14.4	14.0	-90.69	209.1	-306.7	639.9	612.2	27.72	23.087	
10,100.0	10,071.5	10,089.9	10,070.5	14.4	14.1	-90.69	209.1	-306.7	639.9	612.1	27.89	22.946	
10,200.0	10,171.5	10,189.9	10,170.5	14.5	14.2	-90.69	209.1	-306.7	639.9	611.9	28.06	22.807	
10,300.0	10,271.5	10,289.9	10,270.5	14.6	14.3	-90.69	209.1	-306.7	639.9	611.7	28.23	22.670	
10,400.0	10,371.5	10,389.9	10,370.5	14.7	14.4	-90.69	209.1	-306.7	639.9	611.5	28.40	22.535	
10,500.0	10,471.5	10,489.9	10,470.5	14.8	14.5	-90.69	209.1	-306.7	639.9	611.4	28.57	22.401	
10,600.0	10,571.5	10,589.9	10,570.5	14.9	14.5	-90.69	209.1	-306.7	639.9	611.2	28.74	22.269	
10,700.0	10,671.5	10,689.9	10,670.5	15.0	14.6	-90.69	209.1	-306.7	639.9	611.0	28.91	22.138	
10,800.0	10,771.5	10,789.9	10,770.5	15.0	14.7	-90.69	209.1	-306.7	639.9	610.9	29.08	22.009	
10,900.0	10,871.5	10,889.9	10,870.5	15.1	14.8	-90.69	209.1	-306.7	639.9	610.7	29.25	21.882	
11,000.0	10,971.5	10,989.9	10,970.5	15.2	14.9	-90.69	209.1	-306.7	639.9	610.5	29.41	21.756	
11,100.0	11,071.5	11,089.9	11,070.5	15.3	15.0	-90.69	209.1	-306.7	639.9	610.4	29.58	21.632	
11,200.0	11,171.5	11,189.9	11,170.5	15.4	15.1	-90.69	209.1	-306.7	639.9	610.2	29.75	21.509	
11,300.0	11,271.5	11,289.9	11,270.5	15.5	15.1	-90.69	209.1	-306.7	639.9	610.0	29.92	21.388	
11,400.0	11,371.5	11,389.9	11,370.5	15.6	15.2	-90.69	209.1	-306.7	639.9	609.9	30.09	21.268	
11,500.0	11,471.5	11,489.9	11,470.5	15.6	15.3	-90.69	209.1	-306.7	639.9	609.7	30.26	21.149	
11,600.0	11,571.5	11,589.9	11,570.5	15.7	15.4	-90.69	209.1	-306.7	639.9	609.5	30.43	21.032	
11,700.0	11,671.5	11,689.9	11,670.5	15.8	15.5	-90.69	209.1	-306.7	639.9	609.4	30.60	20.917	
11,800.0	11,771.5	11,789.9	11,770.5	15.9	15.6	-90.69	209.1	-306.7	639.9	609.2	30.76	20.802	
11,900.0	11,871.5	11,889.9	11,870.5	16.0	15.6	-90.69	209.1	-306.7	639.9	609.0	30.93	20.689	
11,903.2	11,874.7	11,893.1	11,873.7	16.0	15.6	-90.69	209.1	-306.7	639.9	609.0	30.94	20.686	
11,947.0	11,918.5	11,936.9	11,917.5	16.0	15.7	-90.70	209.0	-306.7	639.9	609.1	30.80	20.775	
11,950.0	11,921.5	11,939.8	11,920.4	16.0	15.7	89.67	208.9	-306.7	639.9	609.1	30.80	20.775	
11,975.0	11,946.5	11,964.6	11,945.1	16.0	15.7	89.62	207.5	-306.7	640.0	609.1	30.82	20.767	
12,000.0	11,971.4	11,989.4	11,969.8	16.0	15.7	89.57	204.9	-306.7	640.0	609.1	30.82	20.765	
12,025.0	11,996.2	12,014.1	11,994.2	16.0	15.7	89.52	201.0	-306.6	640.0	609.1	30.82	20.763	
12,050.0	12,020.7	12,038.8	12,018.3	16.0	15.7	89.47	195.8	-306.6	640.0	609.1	30.82	20.763	
12,075.0	12,045.0	12,063.5	12,042.2	16.1	15.7	89.43	189.4	-306.6	640.0	609.1	30.82	20.762	
12,100.0	12,068.9	12,088.1	12,065.6	16.1	15.7	89.38	181.8	-306.5	640.0	609.2	30.82	20.762	
12,125.0	12,092.4	12,112.8	12,088.6	16.1	15.7	89.34	173.0	-306.5	640.0	609.2	30.82	20.762	
12,150.0	12,115.4	12,137.4	12,111.1	16.1	15.7	89.30	163.1	-306.4	640.0	609.2	30.82	20.762	
12,175.0	12,137.9	12,161.9	12,133.0	16.1	15.7	89.26	152.0	-306.3	640.0	609.2	30.83	20.762	
12,200.0	12,159.8	12,186.5	12,154.3	16.1	15.8	89.22	139.8	-306.2	640.0	609.2	30.83	20.761	
12,225.0	12,181.1	12,211.0	12,175.0	16.1	15.8	89.19	126.5	-306.2	640.0	609.2	30.83	20.759	
12,250.0	12,201.6	12,235.6	12,194.9	16.1	15.8	89.16	112.2	-306.1	640.0	609.2	30.83	20.756	
12,275.0	12,221.3	12,260.1	12,214.0	16.2	15.8	89.13	96.9	-306.0	640.0	609.2	30.84	20.752	
12,300.0	12,240.2	12,284.6	12,232.4	16.2	15.8	89.10	80.7	-305.9	640.0	609.2	30.85	20.745	
12,325.0	12,258.2	12,309.0	12,249.8	16.2	15.8	89.07	63.5	-305.8	640.0	609.2	30.86	20.737	
12,350.0	12,275.3	12,333.5	12,266.4	16.2	15.9	89.05	45.5	-305.6	640.0	609.1	30.88	20.726	
12,375.0	12,291.5	12,357.9	12,281.9	16.2	15.9	89.03	26.7	-305.5	640.0	609.1	30.90	20.712	
12,400.0	12,306.5	12,382.4	12,296.6	16.3	15.9	89.01	7.1	-305.4	640.0	609.1	30.93	20.696	
12,425.0	12,320.6	12,406.8	12,310.1	16.3	15.9	89.00	-13.2	-305.3	640.0	609.1	30.96	20.676	
12,450.0	12,333.5	12,431.2	12,322.6	16.3	15.9	88.99	-34.2	-305.1	640.0	609.0	30.99	20.653	
12,475.0	12,345.3	12,455.7	12,334.1	16.3	16.0	88.98	-55.8	-305.0	640.0	609.0	31.03	20.626	
12,500.0	12,355.9	12,480.1	12,344.4	16.3	16.0	88.97	-77.9	-304.8	640.0	609.0	31.08	20.595	
12,525.0	12,365.3	12,504.5	12,353.5	16.4	16.0	88.97	-100.5	-304.7	640.0	608.9	31.13	20.561	
12,550.0	12,373.5	12,528.9	12,361.5	16.4	16.0	88.97	-123.6	-304.5	640.0	608.9	31.19	20.523	
12,575.0	12,380.5	12,553.3	12,368.3	16.4	16.0	88.97	-147.0	-304.4	640.0	608.8	31.25	20.481	
12,600.0	12,386.2	12,577.7	12,373.9	16.4	16.1	88.97	-170.8	-304.2	640.0	608.7	31.32	20.436	
12,625.0	12,390.6	12,602.1	12,378.3	16.5	16.1	88.98	-194.8	-304.1	640.0	608.6	31.40	20.387	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,650.0	12,393.7	12,626.6	12,381.4	16.5	16.1	88.99	-219.0	-303.9	640.0	608.6	31.48	20.334	
12,675.0	12,395.5	12,651.0	12,383.3	16.5	16.1	89.00	-243.4	-303.8	640.0	608.5	31.56	20.279	
12,697.0	12,396.0	12,672.5	12,384.0	16.6	16.2	89.01	-264.9	-303.6	640.0	608.4	31.64	20.228	
12,700.0	12,396.0	12,675.4	12,384.0	16.6	16.2	89.02	-267.8	-303.6	640.0	608.4	31.65	20.221	
12,704.4	12,396.0	12,679.8	12,384.0	16.6	16.2	89.02	-272.2	-303.6	640.0	608.4	31.67	20.209	
12,800.0	12,396.0	12,775.4	12,384.0	16.7	16.3	89.02	-367.8	-302.9	640.0	607.9	32.11	19.934	
12,900.0	12,396.0	12,875.4	12,384.0	16.9	16.5	89.02	-467.8	-302.3	640.0	607.4	32.65	19.605	
13,000.0	12,396.0	12,975.4	12,384.0	17.2	16.7	89.02	-567.8	-301.6	640.0	606.8	33.27	19.240	
13,100.0	12,396.0	13,075.4	12,384.0	17.4	17.0	89.02	-667.8	-301.0	640.0	606.1	33.96	18.847	
13,200.0	12,396.0	13,175.4	12,384.0	17.8	17.4	89.02	-767.8	-300.3	640.0	605.3	34.72	18.432	
13,300.0	12,396.0	13,275.4	12,384.0	18.2	17.8	89.02	-867.8	-299.7	640.0	604.5	35.56	18.001	
13,400.0	12,396.0	13,375.4	12,384.0	18.6	18.2	89.02	-967.8	-299.0	640.0	603.6	36.45	17.561	
13,500.0	12,396.0	13,475.4	12,384.0	19.1	18.7	89.02	-1,067.8	-298.4	640.0	602.6	37.40	17.115	
13,600.0	12,396.0	13,575.4	12,384.0	19.5	19.2	89.02	-1,167.8	-297.7	640.0	601.6	38.40	16.669	
13,700.0	12,396.0	13,675.4	12,384.0	20.1	19.7	89.02	-1,267.8	-297.1	640.0	600.6	39.45	16.226	
13,800.0	12,396.0	13,775.4	12,384.0	20.6	20.2	89.02	-1,367.8	-296.4	640.0	599.5	40.54	15.787	
13,900.0	12,396.0	13,875.4	12,384.0	21.2	20.8	89.02	-1,467.8	-295.8	640.0	598.4	41.68	15.357	
14,000.0	12,396.0	13,975.4	12,384.0	21.7	21.4	89.02	-1,567.8	-295.1	640.0	597.2	42.85	14.937	
14,100.0	12,396.0	14,075.4	12,384.0	22.3	22.0	89.02	-1,667.8	-294.5	640.0	596.0	44.06	14.527	
14,200.0	12,396.0	14,175.4	12,384.0	23.0	22.6	89.02	-1,767.8	-293.8	640.0	594.7	45.30	14.129	
14,300.0	12,396.0	14,275.4	12,384.0	23.6	23.3	89.02	-1,867.8	-293.2	640.0	593.5	46.57	13.744	
14,400.0	12,396.0	14,375.4	12,384.0	24.2	23.9	89.02	-1,967.7	-292.5	640.0	592.2	47.87	13.372	
14,500.0	12,396.0	14,475.4	12,384.0	24.9	24.6	89.02	-2,067.7	-291.9	640.1	590.9	49.19	13.012	
14,600.0	12,396.0	14,575.4	12,384.0	25.6	25.3	89.02	-2,167.7	-291.2	640.1	589.5	50.53	12.666	
14,700.0	12,396.0	14,675.4	12,384.0	26.3	26.0	89.02	-2,267.7	-290.6	640.1	588.2	51.90	12.333	
14,800.0	12,396.0	14,775.4	12,384.0	27.0	26.7	89.02	-2,367.7	-289.9	640.1	586.8	53.28	12.012	
14,900.0	12,396.0	14,875.4	12,384.0	27.7	27.4	89.02	-2,467.7	-289.3	640.1	585.4	54.69	11.704	
15,000.0	12,396.0	14,975.4	12,384.0	28.4	28.1	89.02	-2,567.7	-288.6	640.1	583.9	56.11	11.408	
15,100.0	12,396.0	15,075.4	12,384.0	29.1	28.8	89.02	-2,667.7	-288.0	640.1	582.5	57.54	11.124	
15,200.0	12,396.0	15,175.4	12,384.0	29.8	29.6	89.02	-2,767.7	-287.3	640.1	581.1	58.99	10.850	
15,300.0	12,396.0	15,275.4	12,384.0	30.6	30.3	89.02	-2,867.7	-286.7	640.1	579.6	60.45	10.588	
15,400.0	12,396.0	15,375.4	12,384.0	31.3	31.1	89.02	-2,967.7	-286.0	640.1	578.1	61.93	10.336	
15,500.0	12,396.0	15,475.4	12,384.0	32.1	31.8	89.02	-3,067.7	-285.4	640.1	576.6	63.41	10.093	
15,600.0	12,396.0	15,575.4	12,384.0	32.8	32.6	89.02	-3,167.7	-284.7	640.1	575.1	64.91	9.861	
15,700.0	12,396.0	15,675.4	12,384.0	33.6	33.3	89.02	-3,267.7	-284.1	640.1	573.6	66.42	9.637	
15,800.0	12,396.0	15,775.4	12,384.0	34.3	34.1	89.02	-3,367.7	-283.4	640.1	572.1	67.93	9.422	
15,900.0	12,396.0	15,875.4	12,384.0	35.1	34.9	89.02	-3,467.7	-282.8	640.1	570.6	69.46	9.215	
16,000.0	12,396.0	15,975.4	12,384.0	35.9	35.7	89.02	-3,567.7	-282.1	640.1	569.1	70.99	9.016	
16,100.0	12,396.0	16,075.4	12,384.0	36.7	36.4	89.02	-3,667.7	-281.5	640.1	567.5	72.53	8.825	
16,200.0	12,396.0	16,175.4	12,384.0	37.4	37.2	89.02	-3,767.7	-280.8	640.1	566.0	74.08	8.640	
16,300.0	12,396.0	16,275.4	12,384.0	38.2	38.0	89.02	-3,867.7	-280.2	640.1	564.4	75.63	8.463	
16,400.0	12,396.0	16,375.4	12,384.0	39.0	38.8	89.02	-3,967.7	-279.5	640.1	562.9	77.19	8.292	
16,500.0	12,396.0	16,475.4	12,384.0	39.8	39.6	89.02	-4,067.7	-278.9	640.1	561.3	78.76	8.127	
16,600.0	12,396.0	16,575.4	12,384.0	40.6	40.4	89.02	-4,167.7	-278.2	640.1	559.7	80.33	7.968	
16,700.0	12,396.0	16,675.4	12,384.0	41.4	41.2	89.02	-4,267.7	-277.6	640.1	558.2	81.91	7.815	
16,800.0	12,396.0	16,775.4	12,384.0	42.2	42.0	89.02	-4,367.7	-276.9	640.1	556.6	83.49	7.667	
16,900.0	12,396.0	16,875.4	12,384.0	43.0	42.8	89.02	-4,467.7	-276.3	640.1	555.0	85.07	7.524	
17,000.0	12,396.0	16,975.4	12,384.0	43.8	43.6	89.02	-4,567.7	-275.6	640.1	553.4	86.67	7.386	
17,100.0	12,396.0	17,075.4	12,384.0	44.6	44.4	89.02	-4,667.7	-275.0	640.1	551.8	88.26	7.252	
17,200.0	12,396.0	17,175.4	12,384.0	45.4	45.2	89.02	-4,767.7	-274.3	640.1	550.2	89.86	7.123	
17,300.0	12,396.0	17,275.4	12,384.0	46.2	46.1	89.02	-4,867.7	-273.7	640.1	548.6	91.46	6.998	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,400.0	12,396.0	17,375.4	12,384.0	47.0	46.9	89.02	-4,967.7	-273.0	640.1	547.0	93.07	6.878	
17,500.0	12,396.0	17,475.4	12,384.0	47.9	47.7	89.02	-5,067.7	-272.4	640.1	545.4	94.68	6.761	
17,600.0	12,396.0	17,575.4	12,384.0	48.7	48.5	89.02	-5,167.7	-271.7	640.1	543.8	96.29	6.647	
17,700.0	12,396.0	17,675.4	12,384.0	49.5	49.3	89.02	-5,267.7	-271.1	640.1	542.2	97.90	6.538	
17,800.0	12,396.0	17,775.4	12,384.0	50.3	50.1	89.02	-5,367.7	-270.4	640.1	540.6	99.52	6.432	
17,900.0	12,396.0	17,875.4	12,384.0	51.1	51.0	89.02	-5,467.7	-269.8	640.1	538.9	101.14	6.328	
18,000.0	12,396.0	17,975.4	12,384.0	52.0	51.8	89.02	-5,567.7	-269.1	640.1	537.3	102.77	6.228	
18,100.0	12,396.0	18,075.4	12,384.0	52.8	52.6	89.02	-5,667.7	-268.5	640.1	535.7	104.39	6.131	
18,200.0	12,396.0	18,175.4	12,384.0	53.6	53.4	89.02	-5,767.7	-267.8	640.1	534.1	106.02	6.037	
18,300.0	12,396.0	18,275.4	12,384.0	54.4	54.3	89.02	-5,867.7	-267.2	640.1	532.4	107.65	5.946	
18,400.0	12,396.0	18,375.4	12,384.0	55.2	55.1	89.02	-5,967.7	-266.5	640.1	530.8	109.29	5.857	
18,500.0	12,396.0	18,475.4	12,384.0	56.1	55.9	89.02	-6,067.7	-265.9	640.1	529.2	110.92	5.771	
18,600.0	12,396.0	18,575.4	12,384.0	56.9	56.8	89.02	-6,167.7	-265.2	640.1	527.5	112.56	5.687	
18,700.0	12,396.0	18,675.4	12,384.0	57.7	57.6	89.02	-6,267.7	-264.6	640.1	525.9	114.20	5.605	
18,800.0	12,396.0	18,775.4	12,384.0	58.6	58.4	89.02	-6,367.7	-263.9	640.1	524.3	115.84	5.526	
18,900.0	12,396.0	18,875.4	12,384.0	59.4	59.3	89.02	-6,467.7	-263.3	640.1	522.6	117.48	5.449	
19,000.0	12,396.0	18,975.4	12,384.0	60.2	60.1	89.02	-6,567.7	-262.6	640.1	521.0	119.12	5.373	
19,100.0	12,396.0	19,075.4	12,384.0	61.1	60.9	89.02	-6,667.6	-262.0	640.1	519.3	120.77	5.300	
19,200.0	12,396.0	19,175.4	12,384.0	61.9	61.8	89.02	-6,767.6	-261.3	640.1	517.7	122.41	5.229	
19,300.0	12,396.0	19,275.4	12,384.0	62.7	62.6	89.02	-6,867.6	-260.7	640.1	516.0	124.06	5.159	
19,400.0	12,396.0	19,375.4	12,384.0	63.6	63.4	89.02	-6,967.6	-260.0	640.1	514.4	125.71	5.092	
19,500.0	12,396.0	19,475.4	12,384.0	64.4	64.3	89.02	-7,067.6	-259.4	640.1	512.7	127.36	5.026	
19,600.0	12,396.0	19,575.4	12,384.0	65.2	65.1	89.02	-7,167.6	-258.7	640.1	511.1	129.02	4.961	
19,700.0	12,396.0	19,675.4	12,384.0	66.1	65.9	89.02	-7,267.6	-258.1	640.1	509.4	130.67	4.899	
19,800.0	12,396.0	19,775.4	12,384.0	66.9	66.8	89.02	-7,367.6	-257.4	640.1	507.8	132.33	4.837	
19,900.0	12,396.0	19,875.4	12,384.0	67.8	67.6	89.02	-7,467.6	-256.8	640.1	506.1	133.98	4.778	
20,000.0	12,396.0	19,975.4	12,384.0	68.6	68.5	89.02	-7,567.6	-256.1	640.1	504.5	135.64	4.719	
20,100.0	12,396.0	20,075.4	12,384.0	69.4	69.3	89.02	-7,667.6	-255.5	640.1	502.8	137.30	4.662	
20,200.0	12,396.0	20,175.4	12,384.0	70.3	70.2	89.02	-7,767.6	-254.8	640.1	501.1	138.96	4.606	
20,300.0	12,396.0	20,275.4	12,384.0	71.1	71.0	89.02	-7,867.6	-254.2	640.1	499.5	140.62	4.552	
20,400.0	12,396.0	20,375.4	12,384.0	72.0	71.8	89.02	-7,967.6	-253.5	640.1	497.8	142.28	4.499	
20,500.0	12,396.0	20,475.4	12,384.0	72.8	72.7	89.02	-8,067.6	-252.9	640.1	496.2	143.94	4.447	
20,600.0	12,396.0	20,575.4	12,384.0	73.6	73.5	89.02	-8,167.6	-252.2	640.1	494.5	145.60	4.396	
20,700.0	12,396.0	20,675.4	12,384.0	74.5	74.4	89.02	-8,267.6	-251.6	640.1	492.8	147.27	4.347	
20,800.0	12,396.0	20,775.4	12,384.0	75.3	75.2	89.02	-8,367.6	-250.9	640.1	491.2	148.93	4.298	
20,900.0	12,396.0	20,875.4	12,384.0	76.2	76.1	89.02	-8,467.6	-250.3	640.1	489.5	150.60	4.250	
21,000.0	12,396.0	20,975.4	12,384.0	77.0	76.9	89.02	-8,567.6	-249.6	640.1	487.8	152.26	4.204	
21,100.0	12,396.0	21,075.4	12,384.0	77.9	77.7	89.02	-8,667.6	-249.0	640.1	486.2	153.93	4.158	
21,200.0	12,396.0	21,175.4	12,384.0	78.7	78.6	89.02	-8,767.6	-248.3	640.1	484.5	155.60	4.114	
21,300.0	12,396.0	21,275.4	12,384.0	79.5	79.4	89.02	-8,867.6	-247.7	640.1	482.8	157.27	4.070	
21,400.0	12,396.0	21,375.4	12,384.0	80.4	80.3	89.02	-8,967.6	-247.0	640.1	481.2	158.94	4.027	
21,500.0	12,396.0	21,475.4	12,384.0	81.2	81.1	89.02	-9,067.6	-246.4	640.1	479.5	160.61	3.986	
21,600.0	12,396.0	21,575.4	12,384.0	82.1	82.0	89.02	-9,167.6	-245.7	640.1	477.8	162.28	3.945	
21,700.0	12,396.0	21,675.4	12,384.0	82.9	82.8	89.02	-9,267.6	-245.1	640.1	476.2	163.95	3.904	
21,800.0	12,396.0	21,775.4	12,384.0	83.8	83.7	89.02	-9,367.6	-244.4	640.1	474.5	165.62	3.865	
21,900.0	12,396.0	21,875.4	12,384.0	84.6	84.5	89.02	-9,467.6	-243.8	640.1	472.8	167.29	3.826	
22,000.0	12,396.0	21,975.4	12,384.0	85.5	85.4	89.02	-9,567.6	-243.1	640.1	471.2	168.97	3.788	
22,100.0	12,396.0	22,075.4	12,384.0	86.3	86.2	89.02	-9,667.6	-242.5	640.1	469.5	170.64	3.751	
22,200.0	12,396.0	22,175.4	12,384.0	87.2	87.1	89.02	-9,767.6	-241.8	640.1	467.8	172.31	3.715	
22,300.0	12,396.0	22,275.4	12,384.0	88.0	87.9	89.02	-9,867.6	-241.2	640.1	466.1	173.99	3.679	
22,400.0	12,396.0	22,375.4	12,384.0	88.9	88.8	89.02	-9,967.6	-240.5	640.1	464.5	175.66	3.644	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 703H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR, 11926-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
22,500.0	12,396.0	22,475.4	12,384.0	89.7	89.6	89.02	-10,067.6	-239.9	640.1	462.8	177.34	3.610	
22,600.0	12,396.0	22,575.4	12,384.0	90.6	90.5	89.02	-10,167.6	-239.2	640.1	461.1	179.01	3.576	
22,631.5	12,396.0	22,606.9	12,384.0	90.8	90.7	89.02	-10,199.1	-239.0	640.1	460.6	179.54	3.565	
22,681.5	12,396.0	22,656.9	12,384.0	91.3	91.2	89.02	-10,249.1	-238.7	640.1	459.7	180.38	3.549 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - AVION FEDERAL COM 704H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11999-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.50	-0.7	-80.0	80.0				
100.0	100.0	99.0	99.0	0.6	0.6	-90.50	-0.7	-80.0	80.0	78.4	1.58	50.717	
200.0	200.0	199.0	199.0	1.1	1.0	-90.50	-0.7	-80.0	80.0	77.5	2.51	31.817	
300.0	300.0	299.0	299.0	1.4	1.4	-90.50	-0.7	-80.0	80.0	76.9	3.14	25.466	
400.0	400.0	399.0	399.0	1.7	1.7	-90.50	-0.7	-80.0	80.0	76.4	3.65	21.939	
500.0	500.0	499.0	499.0	1.9	1.9	-90.50	-0.7	-80.0	80.0	75.9	4.08	19.602	
600.0	600.0	599.0	599.0	2.1	2.1	-90.50	-0.7	-80.0	80.0	75.5	4.47	17.901	
700.0	700.0	699.0	699.0	2.3	2.3	-90.50	-0.7	-80.0	80.0	75.2	4.82	16.590	
800.0	800.0	799.0	799.0	2.5	2.5	-90.50	-0.7	-80.0	80.0	74.9	5.15	15.538	
900.0	900.0	899.0	899.0	2.7	2.7	-90.50	-0.7	-80.0	80.0	74.5	5.45	14.669	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.50	-0.7	-80.0	80.0	74.3	5.74	13.934	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.50	-0.7	-80.0	80.0	74.0	6.01	13.302	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.50	-0.7	-80.0	80.0	73.7	6.27	12.752	CC, ES
1,300.0	1,300.0	1,296.3	1,296.3	3.5	3.4	-131.09	-0.3	-81.6	82.8	76.0	6.73	12.301	SF
1,400.0	1,399.8	1,393.1	1,392.9	3.8	3.6	-132.63	0.8	-86.3	91.1	83.9	7.27	12.539	
1,500.0	1,499.5	1,488.9	1,488.4	4.1	3.8	-134.61	2.6	-94.2	105.2	97.4	7.78	13.523	
1,600.0	1,598.7	1,583.2	1,582.1	4.4	4.0	-136.58	5.1	-104.9	124.9	116.7	8.25	15.141	
1,700.0	1,697.7	1,676.1	1,673.9	4.6	4.3	-138.21	8.2	-118.5	149.0	140.3	8.68	17.169	
1,800.0	1,796.7	1,767.2	1,763.5	4.8	4.6	-152.25	11.9	-134.5	177.4	168.2	9.12	19.440	
1,851.5	1,847.6	1,813.1	1,808.4	4.8	4.7	-158.27	14.0	-143.7	194.0	184.8	9.29	20.885	
1,900.0	1,895.5	1,855.8	1,850.1	4.9	4.8	-157.95	16.1	-152.8	210.7	201.3	9.44	22.319	
2,000.0	1,994.3	1,945.9	1,937.6	5.1	5.0	-157.25	21.0	-173.7	246.8	237.0	9.81	25.154	
2,100.0	2,093.0	2,039.0	2,027.9	5.3	5.2	-156.68	26.0	-195.7	283.3	273.1	10.16	27.879	
2,200.0	2,191.8	2,132.1	2,118.3	5.5	5.3	-156.24	31.1	-217.6	319.7	309.2	10.51	30.416	
2,300.0	2,290.6	2,225.2	2,208.6	5.6	5.5	-155.89	36.2	-239.6	356.2	345.3	10.87	32.784	
2,400.0	2,389.3	2,318.3	2,298.9	5.8	5.7	-155.61	41.3	-261.5	392.7	381.5	11.22	34.997	
2,500.0	2,488.1	2,411.4	2,389.2	6.0	5.8	-155.38	46.3	-283.5	429.2	417.6	11.58	37.068	
2,600.0	2,586.9	2,504.5	2,479.5	6.2	6.0	-155.18	51.4	-305.4	465.7	453.8	11.94	39.009	
2,700.0	2,685.6	2,597.5	2,569.9	6.4	6.2	-155.01	56.5	-327.4	502.2	489.9	12.30	40.831	
2,800.0	2,784.4	2,690.6	2,660.2	6.6	6.4	-154.86	61.6	-349.3	538.7	526.0	12.66	42.543	
2,900.0	2,883.2	2,783.7	2,750.5	6.8	6.6	-154.73	66.6	-371.2	575.2	562.2	13.03	44.156	
3,000.0	2,981.9	2,876.8	2,840.8	7.0	6.7	-154.62	71.7	-393.2	611.7	598.3	13.39	45.676	
3,100.0	3,080.7	2,969.9	2,931.2	7.2	6.9	-154.52	76.8	-415.1	648.3	634.5	13.76	47.111	
3,200.0	3,179.5	3,063.0	3,021.5	7.4	7.1	-154.43	81.9	-437.1	684.8	670.6	14.13	48.467	
3,300.0	3,278.2	3,156.1	3,111.8	7.6	7.3	-154.35	86.9	-459.0	721.3	706.8	14.50	49.751	
3,400.0	3,377.0	3,249.2	3,202.1	7.8	7.5	-154.28	92.0	-481.0	757.8	742.9	14.87	50.968	
3,500.0	3,475.8	3,342.3	3,292.5	8.0	7.7	-154.21	97.1	-502.9	794.3	779.1	15.24	52.122	
3,547.2	3,522.4	3,386.2	3,335.1	8.0	7.8	-154.18	99.5	-513.3	811.6	796.2	15.39	52.728	
3,600.0	3,574.6	3,435.4	3,382.9	8.1	7.9	-154.23	102.2	-524.9	830.6	815.1	15.56	53.371	
3,700.0	3,673.6	3,529.1	3,473.7	8.3	8.1	-154.28	107.3	-547.0	865.7	849.7	15.93	54.325	
3,800.0	3,772.9	3,623.3	3,565.1	8.5	8.3	-154.29	112.4	-569.2	899.2	882.9	16.30	55.151	
3,900.0	3,872.3	3,717.9	3,657.0	8.7	8.5	-154.24	117.6	-591.5	931.3	914.6	16.67	55.854	
4,000.0	3,972.0	3,813.1	3,749.3	8.9	8.7	-154.16	122.8	-613.9	961.8	944.8	17.04	56.447	
4,100.0	4,071.7	3,908.7	3,842.0	9.0	8.9	-154.03	128.0	-636.4	990.9	973.5	17.40	56.939	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - GRUMPY CAT 15 FEDERAL 213H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 72-MWD - OWSG R1 **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
10,300.0	10,271.5	15,671.0	10,705.0	14.6	93.5	-81.43	349.2	-545.2	999.7	880.3	119.38	8.374	
10,400.0	10,371.5	15,671.0	10,705.0	14.7	93.5	-81.43	349.2	-545.2	957.9	834.5	123.41	7.762	
10,500.0	10,471.5	15,671.0	10,705.0	14.8	93.5	-81.43	349.2	-545.2	925.2	798.2	127.00	7.285	
10,600.0	10,571.5	15,671.0	10,705.0	14.9	93.5	-81.43	349.2	-545.2	902.4	772.5	129.86	6.949	
10,700.0	10,671.5	15,671.0	10,705.0	15.0	93.5	-81.43	349.2	-545.2	890.2	758.5	131.75	6.757	
10,758.5	10,730.0	15,671.0	10,705.0	15.0	93.5	-81.43	349.2	-545.2	888.3	756.0	132.33	6.713	CC, ES
10,800.0	10,771.5	15,671.0	10,705.0	15.0	93.5	-81.43	349.2	-545.2	889.3	756.8	132.50	6.712	SF
10,900.0	10,871.5	15,671.0	10,705.0	15.1	93.5	-81.43	349.2	-545.2	899.5	767.4	132.06	6.811	
11,000.0	10,971.5	15,671.0	10,705.0	15.2	93.5	-81.43	349.2	-545.2	920.6	790.0	130.56	7.051	
11,100.0	11,071.5	15,671.0	10,705.0	15.3	93.5	-81.43	349.2	-545.2	951.7	823.5	128.19	7.424	
11,200.0	11,171.5	15,671.0	10,705.0	15.4	93.5	-81.43	349.2	-545.2	992.0	866.8	125.22	7.922	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: AVION FEDERAL COM PROJECT - GRUMPY CAT 15 FEDERAL 214H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 72-MWD - OWSG R1 **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
10,000.0	9,971.5	15,725.0	10,699.2	14.4	92.8	76.64	363.7	951.9	961.3	863.1	98.14	9.795	
10,100.0	10,071.5	15,725.0	10,699.2	14.4	92.8	76.64	363.7	951.9	888.7	786.0	102.74	8.651	
10,200.0	10,171.5	15,725.0	10,699.2	14.5	92.8	76.64	363.7	951.9	822.0	714.1	107.88	7.619	
10,300.0	10,271.5	15,725.0	10,699.2	14.6	92.8	76.64	363.7	951.9	762.6	649.1	113.44	6.722	
10,400.0	10,371.5	15,725.0	10,699.2	14.7	92.8	76.64	363.7	951.9	712.3	593.2	119.09	5.981	
10,500.0	10,471.5	15,725.0	10,699.2	14.8	92.8	76.64	363.7	951.9	673.2	548.8	124.31	5.415	
10,600.0	10,571.5	15,725.0	10,699.2	14.9	92.8	76.64	363.7	951.9	647.3	518.9	128.38	5.042	
10,700.0	10,671.5	15,725.0	10,699.2	15.0	92.8	76.64	363.7	951.9	636.2	505.6	130.61	4.871	
10,720.9	10,692.4	15,725.0	10,699.2	15.0	92.8	76.64	363.7	951.9	635.9	505.1	130.80	4.862	CC, ES, SF
10,800.0	10,771.5	15,725.0	10,699.2	15.0	92.8	76.64	363.7	951.9	640.8	510.2	130.61	4.906	
10,900.0	10,871.5	15,725.0	10,699.2	15.1	92.8	76.64	363.7	951.9	660.6	532.1	128.49	5.142	
11,000.0	10,971.5	15,725.0	10,699.2	15.2	92.8	76.64	363.7	951.9	694.4	569.7	124.78	5.566	
11,100.0	11,071.5	15,725.0	10,699.2	15.3	92.8	76.64	363.7	951.9	740.3	620.1	120.18	6.160	
11,200.0	11,171.5	15,725.0	10,699.2	15.4	92.8	76.64	363.7	951.9	796.2	680.9	115.32	6.904	
11,300.0	11,271.5	15,725.0	10,699.2	15.5	92.8	76.64	363.7	951.9	860.1	749.5	110.62	7.775	
11,400.0	11,371.5	15,725.0	10,699.2	15.6	92.8	76.64	363.7	951.9	930.3	824.0	106.32	8.751	

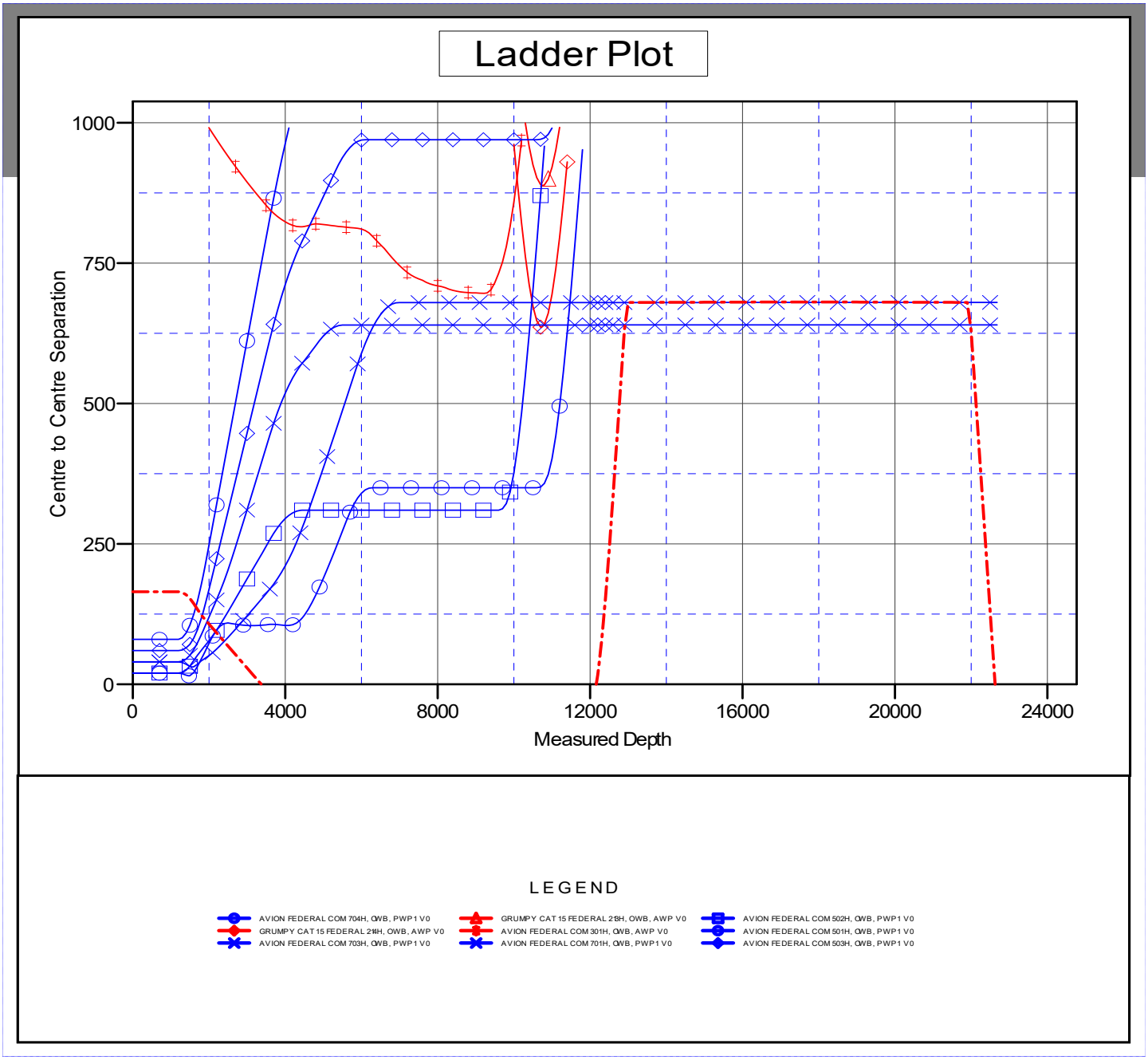
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=27ft @ 3729.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: AVION FEDERAL COM 702H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



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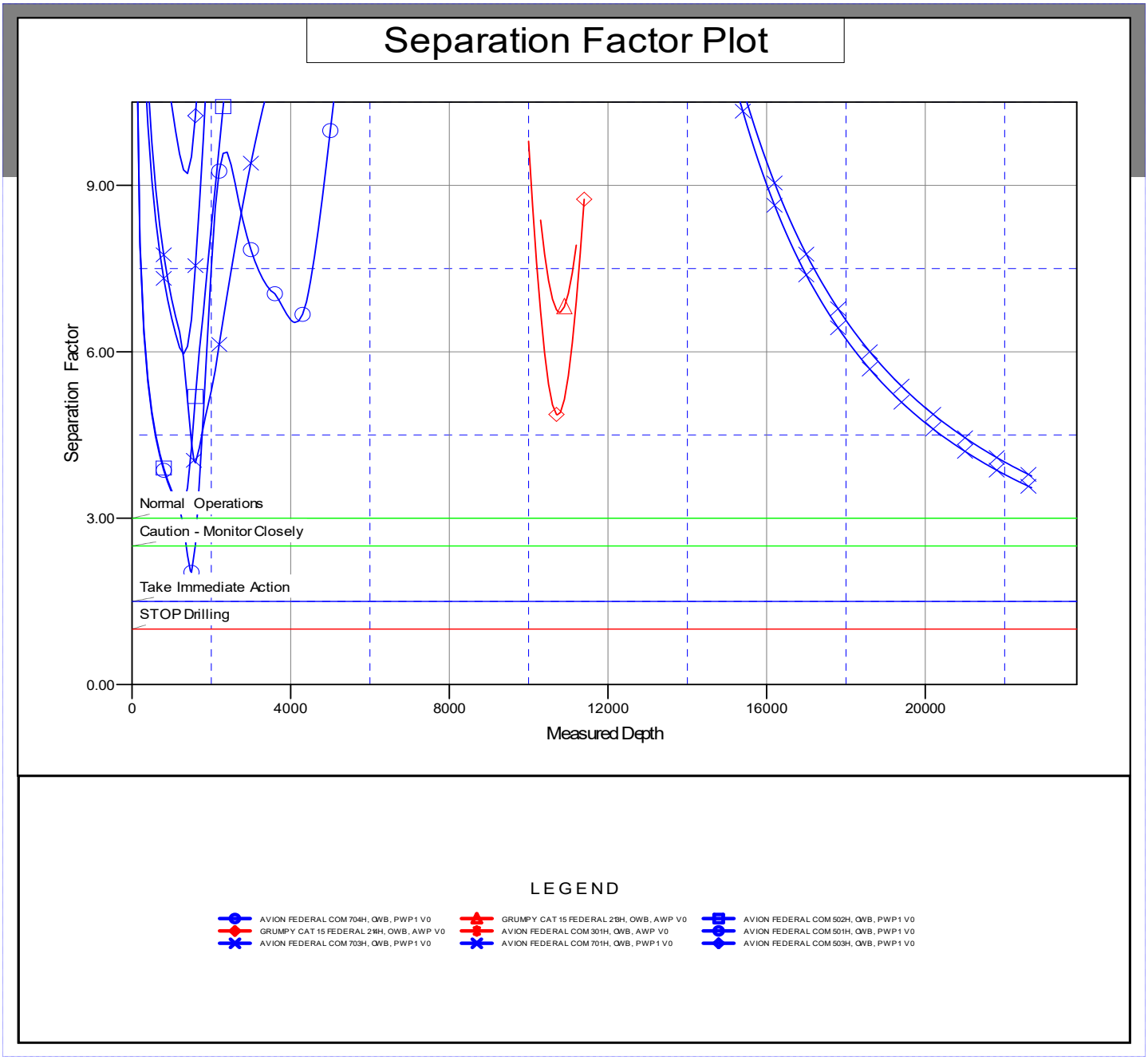
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Reference Site:	AVION FEDERAL COM PROJECT	**MD Reference:**	RKB=27ft @ 3729.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	AVION FEDERAL COM 702H	**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:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=27ft @ 3729.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: AVION FEDERAL COM 702H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST
AVION FEDERAL COM PROJECT
AVION FEDERAL COM 702H

OWB

Plan: PWP1

Standard Planning Report

12 January, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Project LEA COUNTY SOUTHEAST

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site AVION FEDERAL COM PROJECT

Site Position:		**Northing:**	467,238.17 usft	**Latitude:**	32° 16' 57.890 N
From:	Map	**Easting:**	708,776.75 usft	**Longitude:**	103° 39' 27.986 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well AVION FEDERAL COM 702H

Well Position	**+N/-S**	0.0 usft	**Northing:**	472,260.20 usft	**Latitude:**	32° 17' 47.589 N
	+E/-W	0.0 usft	**Easting:**	708,727.30 usft	**Longitude:**	103° 39' 28.194 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,702.0 usft
Grid Convergence:		0.36 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	7/1/2025	6.28	59.87	47,291.70637733

Design PWP1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.76

Plan Survey Tool Program **Date** 1/12/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,200.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp	
2	1,200.0	11,947.0	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG ·	
3	11,947.0	22,681.5	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG ·	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	8.00	40.00	1,598.7	21.4	17.9	2.00	2.00	0.00	40.00	
1,700.0	8.00	40.00	1,697.7	32.0	26.9	0.00	0.00	0.00	0.00	
1,851.5	9.00	59.46	1,847.6	46.1	43.9	2.00	0.66	12.85	80.59	
3,547.2	9.00	59.46	3,522.4	180.9	272.4	0.00	0.00	0.00	0.00	
4,447.5	0.00	0.00	4,419.0	216.8	333.2	1.00	-1.00	0.00	180.00	
11,947.0	0.00	0.00	11,918.5	216.8	333.2	0.00	0.00	0.00	0.00	
12,697.0	90.00	179.63	12,396.0	-260.7	336.3	12.00	12.00	23.95	179.63	
22,631.5	90.00	179.63	12,396.0	-10,194.9	401.0	0.00	0.00	0.00	0.00	
22,681.5	90.00	179.63	12,396.0	-10,244.9	401.3	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	40.00	1,300.0	1.3	1.1	-1.3	2.00	2.00	0.00
1,400.0	4.00	40.00	1,399.8	5.3	4.5	-5.2	2.00	2.00	0.00
1,500.0	6.00	40.00	1,499.5	12.0	10.1	-11.6	2.00	2.00	0.00
1,600.0	8.00	40.00	1,598.7	21.4	17.9	-20.6	2.00	2.00	0.00
1,700.0	8.00	40.00	1,697.7	32.0	26.9	-30.9	0.00	0.00	0.00
1,800.0	8.56	53.38	1,796.7	41.8	37.3	-40.3	2.00	0.56	13.38
1,851.5	9.00	59.46	1,847.6	46.1	43.9	-44.4	2.00	0.87	11.82
1,900.0	9.00	59.46	1,895.5	50.0	50.4	-48.0	0.00	0.00	0.00
2,000.0	9.00	59.46	1,994.3	57.9	63.9	-55.4	0.00	0.00	0.00
2,100.0	9.00	59.46	2,093.0	65.9	77.3	-62.8	0.00	0.00	0.00
2,200.0	9.00	59.46	2,191.8	73.8	90.8	-70.2	0.00	0.00	0.00
2,300.0	9.00	59.46	2,290.6	81.8	104.3	-77.6	0.00	0.00	0.00
2,400.0	9.00	59.46	2,389.3	89.7	117.8	-85.0	0.00	0.00	0.00
2,500.0	9.00	59.46	2,488.1	97.7	131.3	-92.5	0.00	0.00	0.00
2,600.0	9.00	59.46	2,586.9	105.6	144.7	-99.9	0.00	0.00	0.00
2,700.0	9.00	59.46	2,685.6	113.6	158.2	-107.3	0.00	0.00	0.00
2,800.0	9.00	59.46	2,784.4	121.5	171.7	-114.7	0.00	0.00	0.00
2,900.0	9.00	59.46	2,883.2	129.5	185.2	-122.1	0.00	0.00	0.00
3,000.0	9.00	59.46	2,981.9	137.4	198.7	-129.6	0.00	0.00	0.00
3,100.0	9.00	59.46	3,080.7	145.4	212.1	-137.0	0.00	0.00	0.00
3,200.0	9.00	59.46	3,179.5	153.3	225.6	-144.4	0.00	0.00	0.00
3,300.0	9.00	59.46	3,278.2	161.3	239.1	-151.8	0.00	0.00	0.00
3,400.0	9.00	59.46	3,377.0	169.2	252.6	-159.2	0.00	0.00	0.00
3,500.0	9.00	59.46	3,475.8	177.2	266.0	-166.6	0.00	0.00	0.00
3,547.2	9.00	59.46	3,522.4	180.9	272.4	-170.1	0.00	0.00	0.00
3,600.0	8.47	59.46	3,574.6	185.0	279.3	-173.9	1.00	-1.00	0.00
3,700.0	7.47	59.46	3,673.6	192.1	291.3	-180.5	1.00	-1.00	0.00
3,800.0	6.47	59.46	3,772.9	198.2	301.7	-186.3	1.00	-1.00	0.00
3,900.0	5.47	59.46	3,872.3	203.5	310.7	-191.2	1.00	-1.00	0.00
4,000.0	4.47	59.46	3,972.0	207.9	318.2	-195.3	1.00	-1.00	0.00
4,100.0	3.47	59.46	4,071.7	211.4	324.1	-198.6	1.00	-1.00	0.00
4,200.0	2.47	59.46	4,171.6	214.1	328.6	-201.1	1.00	-1.00	0.00
4,300.0	1.47	59.46	4,271.5	215.8	331.6	-202.7	1.00	-1.00	0.00
4,400.0	0.47	59.46	4,371.5	216.7	333.0	-203.5	1.00	-1.00	0.00
4,447.5	0.00	0.00	4,419.0	216.8	333.2	-203.6	1.00	-1.00	0.00
4,500.0	0.00	0.00	4,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
4,900.0	0.00	0.00	4,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,971.5	216.8	333.2	-203.6	0.00	0.00	0.00

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Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.00	0.00	5,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,100.0	0.00	0.00	6,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,371.5	216.8	333.2	-203.6	0.00	0.00	0.00

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10,500.0	0.00	0.00	10,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,971.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,100.0	0.00	0.00	11,071.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,171.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,271.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,371.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,471.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,571.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,671.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,771.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,871.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,947.0	0.00	0.00	11,918.5	216.8	333.2	-203.6	0.00	0.00	0.00
11,950.0	0.36	179.63	11,921.5	216.8	333.2	-203.6	12.00	12.00	0.00
11,975.0	3.36	179.63	11,946.5	216.0	333.2	-202.8	12.00	12.00	0.00
12,000.0	6.36	179.63	11,971.4	213.9	333.2	-200.7	12.00	12.00	0.00
12,025.0	9.36	179.63	11,996.2	210.4	333.2	-197.2	12.00	12.00	0.00
12,050.0	12.36	179.63	12,020.7	205.7	333.3	-192.5	12.00	12.00	0.00
12,075.0	15.36	179.63	12,045.0	199.8	333.3	-186.6	12.00	12.00	0.00
12,100.0	18.36	179.63	12,068.9	192.5	333.4	-179.3	12.00	12.00	0.00
12,125.0	21.36	179.63	12,092.4	184.0	333.4	-170.8	12.00	12.00	0.00
12,150.0	24.36	179.63	12,115.4	174.3	333.5	-161.1	12.00	12.00	0.00
12,175.0	27.36	179.63	12,137.9	163.4	333.5	-150.2	12.00	12.00	0.00
12,200.0	30.36	179.63	12,159.8	151.3	333.6	-138.2	12.00	12.00	0.00
12,225.0	33.36	179.63	12,181.1	138.1	333.7	-125.0	12.00	12.00	0.00
12,250.0	36.36	179.63	12,201.6	123.9	333.8	-110.7	12.00	12.00	0.00
12,275.0	39.36	179.63	12,221.3	108.5	333.9	-95.4	12.00	12.00	0.00
12,300.0	42.36	179.63	12,240.2	92.2	334.0	-79.0	12.00	12.00	0.00
12,325.0	45.36	179.63	12,258.2	74.9	334.1	-61.7	12.00	12.00	0.00
12,350.0	48.36	179.63	12,275.3	56.6	334.2	-43.5	12.00	12.00	0.00
12,375.0	51.36	179.63	12,291.5	37.5	334.4	-24.4	12.00	12.00	0.00
12,400.0	54.36	179.63	12,306.5	17.6	334.5	-4.5	12.00	12.00	0.00
12,425.0	57.36	179.63	12,320.6	-3.1	334.6	16.2	12.00	12.00	0.00
12,450.0	60.36	179.63	12,333.5	-24.5	334.8	37.6	12.00	12.00	0.00
12,475.0	63.36	179.63	12,345.3	-46.5	334.9	59.6	12.00	12.00	0.00
12,500.0	66.36	179.63	12,355.9	-69.2	335.1	82.2	12.00	12.00	0.00
12,525.0	69.36	179.63	12,365.3	-92.3	335.2	105.4	12.00	12.00	0.00
12,550.0	72.36	179.63	12,373.5	-115.9	335.4	129.0	12.00	12.00	0.00
12,575.0	75.36	179.63	12,380.5	-139.9	335.5	153.0	12.00	12.00	0.00
12,600.0	78.36	179.63	12,386.2	-164.3	335.7	177.3	12.00	12.00	0.00
12,625.0	81.36	179.63	12,390.6	-188.9	335.8	201.9	12.00	12.00	0.00
12,650.0	84.36	179.63	12,393.7	-213.7	336.0	226.7	12.00	12.00	0.00
12,675.0	87.36	179.63	12,395.5	-238.6	336.2	251.6	12.00	12.00	0.00
12,697.0	90.00	179.63	12,396.0	-260.7	336.3	273.6	12.00	12.00	0.00
12,700.0	90.00	179.63	12,396.0	-263.6	336.3	276.6	0.00	0.00	0.00
12,800.0	90.00	179.63	12,396.0	-363.6	337.0	376.5	0.00	0.00	0.00
12,900.0	90.00	179.63	12,396.0	-463.6	337.6	476.5	0.00	0.00	0.00
13,000.0	90.00	179.63	12,396.0	-563.6	338.3	576.4	0.00	0.00	0.00
13,100.0	90.00	179.63	12,396.0	-663.6	338.9	676.4	0.00	0.00	0.00
13,200.0	90.00	179.63	12,396.0	-763.6	339.6	776.3	0.00	0.00	0.00
13,300.0	90.00	179.63	12,396.0	-863.6	340.2	876.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.63	12,396.0	-963.6	340.9	976.2	0.00	0.00	0.00
13,500.0	90.00	179.63	12,396.0	-1,063.6	341.5	1,076.2	0.00	0.00	0.00
13,600.0	90.00	179.63	12,396.0	-1,163.6	342.2	1,176.1	0.00	0.00	0.00
13,700.0	90.00	179.63	12,396.0	-1,263.6	342.8	1,276.1	0.00	0.00	0.00
13,800.0	90.00	179.63	12,396.0	-1,363.6	343.5	1,376.0	0.00	0.00	0.00
13,900.0	90.00	179.63	12,396.0	-1,463.6	344.1	1,475.9	0.00	0.00	0.00
14,000.0	90.00	179.63	12,396.0	-1,563.6	344.8	1,575.9	0.00	0.00	0.00
14,100.0	90.00	179.63	12,396.0	-1,663.6	345.4	1,675.8	0.00	0.00	0.00
14,200.0	90.00	179.63	12,396.0	-1,763.6	346.1	1,775.8	0.00	0.00	0.00
14,300.0	90.00	179.63	12,396.0	-1,863.6	346.7	1,875.7	0.00	0.00	0.00
14,400.0	90.00	179.63	12,396.0	-1,963.6	347.4	1,975.7	0.00	0.00	0.00
14,500.0	90.00	179.63	12,396.0	-2,063.6	348.0	2,075.6	0.00	0.00	0.00
14,600.0	90.00	179.63	12,396.0	-2,163.6	348.7	2,175.6	0.00	0.00	0.00
14,700.0	90.00	179.63	12,396.0	-2,263.6	349.4	2,275.5	0.00	0.00	0.00
14,800.0	90.00	179.63	12,396.0	-2,363.6	350.0	2,375.5	0.00	0.00	0.00
14,900.0	90.00	179.63	12,396.0	-2,463.6	350.7	2,475.4	0.00	0.00	0.00
15,000.0	90.00	179.63	12,396.0	-2,563.6	351.3	2,575.4	0.00	0.00	0.00
15,100.0	90.00	179.63	12,396.0	-2,663.6	352.0	2,675.3	0.00	0.00	0.00
15,200.0	90.00	179.63	12,396.0	-2,763.6	352.6	2,775.3	0.00	0.00	0.00
15,300.0	90.00	179.63	12,396.0	-2,863.6	353.3	2,875.2	0.00	0.00	0.00
15,400.0	90.00	179.63	12,396.0	-2,963.6	353.9	2,975.1	0.00	0.00	0.00
15,500.0	90.00	179.63	12,396.0	-3,063.6	354.6	3,075.1	0.00	0.00	0.00
15,600.0	90.00	179.63	12,396.0	-3,163.6	355.2	3,175.0	0.00	0.00	0.00
15,700.0	90.00	179.63	12,396.0	-3,263.6	355.9	3,275.0	0.00	0.00	0.00
15,800.0	90.00	179.63	12,396.0	-3,363.6	356.5	3,374.9	0.00	0.00	0.00
15,900.0	90.00	179.63	12,396.0	-3,463.6	357.2	3,474.9	0.00	0.00	0.00
16,000.0	90.00	179.63	12,396.0	-3,563.6	357.8	3,574.8	0.00	0.00	0.00
16,100.0	90.00	179.63	12,396.0	-3,663.6	358.5	3,674.8	0.00	0.00	0.00
16,200.0	90.00	179.63	12,396.0	-3,763.5	359.1	3,774.7	0.00	0.00	0.00
16,300.0	90.00	179.63	12,396.0	-3,863.5	359.8	3,874.7	0.00	0.00	0.00
16,400.0	90.00	179.63	12,396.0	-3,963.5	360.4	3,974.6	0.00	0.00	0.00
16,500.0	90.00	179.63	12,396.0	-4,063.5	361.1	4,074.6	0.00	0.00	0.00
16,600.0	90.00	179.63	12,396.0	-4,163.5	361.7	4,174.5	0.00	0.00	0.00
16,700.0	90.00	179.63	12,396.0	-4,263.5	362.4	4,274.5	0.00	0.00	0.00
16,800.0	90.00	179.63	12,396.0	-4,363.5	363.0	4,374.4	0.00	0.00	0.00
16,900.0	90.00	179.63	12,396.0	-4,463.5	363.7	4,474.3	0.00	0.00	0.00
17,000.0	90.00	179.63	12,396.0	-4,563.5	364.3	4,574.3	0.00	0.00	0.00
17,100.0	90.00	179.63	12,396.0	-4,663.5	365.0	4,674.2	0.00	0.00	0.00
17,200.0	90.00	179.63	12,396.0	-4,763.5	365.6	4,774.2	0.00	0.00	0.00
17,300.0	90.00	179.63	12,396.0	-4,863.5	366.3	4,874.1	0.00	0.00	0.00
17,400.0	90.00	179.63	12,396.0	-4,963.5	366.9	4,974.1	0.00	0.00	0.00
17,500.0	90.00	179.63	12,396.0	-5,063.5	367.6	5,074.0	0.00	0.00	0.00
17,600.0	90.00	179.63	12,396.0	-5,163.5	368.2	5,174.0	0.00	0.00	0.00
17,700.0	90.00	179.63	12,396.0	-5,263.5	368.9	5,273.9	0.00	0.00	0.00
17,800.0	90.00	179.63	12,396.0	-5,363.5	369.5	5,373.9	0.00	0.00	0.00
17,900.0	90.00	179.63	12,396.0	-5,463.5	370.2	5,473.8	0.00	0.00	0.00
18,000.0	90.00	179.63	12,396.0	-5,563.5	370.8	5,573.8	0.00	0.00	0.00
18,100.0	90.00	179.63	12,396.0	-5,663.5	371.5	5,673.7	0.00	0.00	0.00
18,200.0	90.00	179.63	12,396.0	-5,763.5	372.1	5,773.7	0.00	0.00	0.00
18,300.0	90.00	179.63	12,396.0	-5,863.5	372.8	5,873.6	0.00	0.00	0.00
18,400.0	90.00	179.63	12,396.0	-5,963.5	373.4	5,973.5	0.00	0.00	0.00
18,500.0	90.00	179.63	12,396.0	-6,063.5	374.1	6,073.5	0.00	0.00	0.00
18,600.0	90.00	179.63	12,396.0	-6,163.5	374.7	6,173.4	0.00	0.00	0.00
18,700.0	90.00	179.63	12,396.0	-6,263.5	375.4	6,273.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,800.0	90.00	179.63	12,396.0	-6,363.5	376.1	6,373.3	0.00	0.00	0.00
18,900.0	90.00	179.63	12,396.0	-6,463.5	376.7	6,473.3	0.00	0.00	0.00
19,000.0	90.00	179.63	12,396.0	-6,563.5	377.4	6,573.2	0.00	0.00	0.00
19,100.0	90.00	179.63	12,396.0	-6,663.5	378.0	6,673.2	0.00	0.00	0.00
19,200.0	90.00	179.63	12,396.0	-6,763.5	378.7	6,773.1	0.00	0.00	0.00
19,300.0	90.00	179.63	12,396.0	-6,863.5	379.3	6,873.1	0.00	0.00	0.00
19,400.0	90.00	179.63	12,396.0	-6,963.5	380.0	6,973.0	0.00	0.00	0.00
19,500.0	90.00	179.63	12,396.0	-7,063.5	380.6	7,073.0	0.00	0.00	0.00
19,600.0	90.00	179.63	12,396.0	-7,163.5	381.3	7,172.9	0.00	0.00	0.00
19,700.0	90.00	179.63	12,396.0	-7,263.5	381.9	7,272.9	0.00	0.00	0.00
19,800.0	90.00	179.63	12,396.0	-7,363.5	382.6	7,372.8	0.00	0.00	0.00
19,900.0	90.00	179.63	12,396.0	-7,463.5	383.2	7,472.8	0.00	0.00	0.00
20,000.0	90.00	179.63	12,396.0	-7,563.5	383.9	7,572.7	0.00	0.00	0.00
20,100.0	90.00	179.63	12,396.0	-7,663.5	384.5	7,672.6	0.00	0.00	0.00
20,200.0	90.00	179.63	12,396.0	-7,763.5	385.2	7,772.6	0.00	0.00	0.00
20,300.0	90.00	179.63	12,396.0	-7,863.5	385.8	7,872.5	0.00	0.00	0.00
20,400.0	90.00	179.63	12,396.0	-7,963.5	386.5	7,972.5	0.00	0.00	0.00
20,500.0	90.00	179.63	12,396.0	-8,063.5	387.1	8,072.4	0.00	0.00	0.00
20,600.0	90.00	179.63	12,396.0	-8,163.5	387.8	8,172.4	0.00	0.00	0.00
20,700.0	90.00	179.63	12,396.0	-8,263.5	388.4	8,272.3	0.00	0.00	0.00
20,800.0	90.00	179.63	12,396.0	-8,363.5	389.1	8,372.3	0.00	0.00	0.00
20,900.0	90.00	179.63	12,396.0	-8,463.4	389.7	8,472.2	0.00	0.00	0.00
21,000.0	90.00	179.63	12,396.0	-8,563.4	390.4	8,572.2	0.00	0.00	0.00
21,100.0	90.00	179.63	12,396.0	-8,663.4	391.0	8,672.1	0.00	0.00	0.00
21,200.0	90.00	179.63	12,396.0	-8,763.4	391.7	8,772.1	0.00	0.00	0.00
21,300.0	90.00	179.63	12,396.0	-8,863.4	392.3	8,872.0	0.00	0.00	0.00
21,400.0	90.00	179.63	12,396.0	-8,963.4	393.0	8,972.0	0.00	0.00	0.00
21,500.0	90.00	179.63	12,396.0	-9,063.4	393.6	9,071.9	0.00	0.00	0.00
21,600.0	90.00	179.63	12,396.0	-9,163.4	394.3	9,171.8	0.00	0.00	0.00
21,700.0	90.00	179.63	12,396.0	-9,263.4	394.9	9,271.8	0.00	0.00	0.00
21,800.0	90.00	179.63	12,396.0	-9,363.4	395.6	9,371.7	0.00	0.00	0.00
21,900.0	90.00	179.63	12,396.0	-9,463.4	396.2	9,471.7	0.00	0.00	0.00
22,000.0	90.00	179.63	12,396.0	-9,563.4	396.9	9,571.6	0.00	0.00	0.00
22,100.0	90.00	179.63	12,396.0	-9,663.4	397.5	9,671.6	0.00	0.00	0.00
22,200.0	90.00	179.63	12,396.0	-9,763.4	398.2	9,771.5	0.00	0.00	0.00
22,300.0	90.00	179.63	12,396.0	-9,863.4	398.8	9,871.5	0.00	0.00	0.00
22,400.0	90.00	179.63	12,396.0	-9,963.4	399.5	9,971.4	0.00	0.00	0.00
22,500.0	90.00	179.63	12,396.0	-10,063.4	400.1	10,071.4	0.00	0.00	0.00
22,600.0	90.00	179.63	12,396.0	-10,163.4	400.8	10,171.3	0.00	0.00	0.00
22,631.5	90.00	179.63	12,396.0	-10,194.9	401.0	10,202.8	0.00	0.00	0.00
22,681.5	90.00	179.63	12,396.0	-10,244.9	401.3	10,252.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=27ft @ 3729.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	RKB=27ft @ 3729.0usft
Site:	AVION FEDERAL COM PROJECT	**North Reference:**	Grid
Well:	AVION FEDERAL COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
1ST TNGT WNDW_50'A - plan hits target center - Rectangle (sides W30.0 H50.0 D100.0)	8.00	220.00	1,697.7	32.0	26.9	472,292.22	708,754.16	32° 17' 47.904 N	103° 39' 27.878 W
2ND TNGT WNDW_50'A - plan hits target center - Rectangle (sides W50.0 H50.0 D1,000.0)	9.00	239.46	2,685.6	113.6	158.2	472,373.78	708,885.51	32° 17' 48.703 N	103° 39' 26.342 W
3RD TNGT WNDW_50'A - plan hits target center - Rectangle (sides W70.0 H100.0 D847.2)	9.00	239.46	3,522.4	180.9	272.4	472,441.14	708,999.70	32° 17' 49.363 N	103° 39' 25.007 W
KOP BOX_0'N x 100'S x - plan hits target center - Rectangle (sides W100.0 H100.0 D7,499.5)	0.00	359.63	11,918.5	216.8	333.2	472,477.00	709,060.50	32° 17' 49.714 N	103° 39' 24.296 W
PBHL (AVION FEDERAI - plan hits target center - Rectangle (sides W100.0 H10,413.1 D20.0)	0.00	359.63	12,396.0	-10,244.9	401.3	462,015.30	709,128.60	32° 16' 6.185 N	103° 39' 24.271 W
FTP (AVION FEDERAL - plan misses target center by 164.2usft at 12350.0usft MD (12275.3 TVD, 56.6 N, 334.2 E) - Circle (radius 50.0)	0.00	0.00	12,396.0	168.0	333.5	472,428.20	709,060.80	32° 17' 49.231 N	103° 39' 24.296 W
LTP (AVION FEDERAL - plan hits target center - Circle (radius 50.0)	0.00	0.00	12,396.0	-10,194.9	401.0	462,065.30	709,128.30	32° 16' 6.680 N	103° 39' 24.271 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
0.0	0.0	0.0	0.0	HOLD TO NUDGE KOP
1,200.0	1,200.0	0.0	0.0	NUDGE @ DLS 2.00
1,600.0	1,598.7	21.4	17.9	HOLD SHORT TANGENT
1,700.0	1,697.7	32.0	26.9	START DLS 2.00 TFO 80.59
1,851.5	1,847.6	46.1	43.9	HOLD TANGENT
3,547.2	3,522.4	180.9	272.4	END NUDGE
4,447.5	4,419.0	216.8	333.2	HOLD TO CURVE KOP
11,947.0	11,918.5	216.8	333.2	KOP-START DLS 12.00 TFO 179.63
12,697.0	12,396.0	-260.6	336.3	EOC-HOLD
22,631.5	12,396.0	-10,194.9	401.0	LTP-HOLD
22,681.5	12,396.0	-10,244.9	401.3	TD @ 22681.5 MD / 10252.8 VS

Project:	LEA COUNTY SOUTHEAST
Site:	AVION FEDERAL COM PROJECT
Well:	AVION FEDERAL COM 702H
Wellbore:	OWB
Design:	PWP1
GL:	3702.0
RKB=27ft @ 3729.0usft	

ConocoPhillips

WELL DETAILS: AVION FEDERAL COM 702H

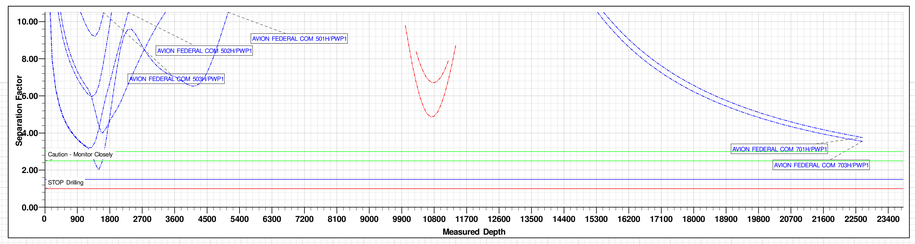
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	472260.20	708727.30	32° 17' 47.589 N	103° 39' 28.194 W

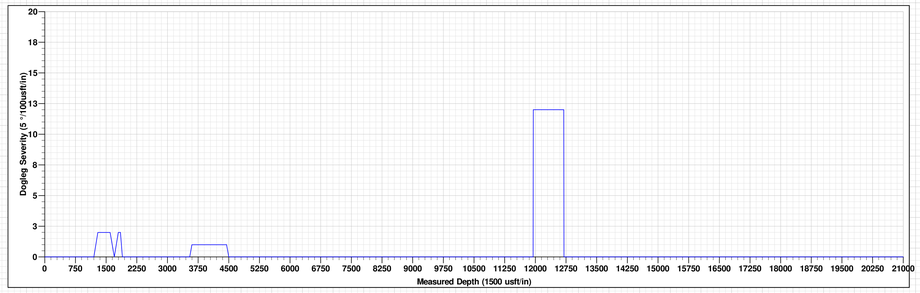
Azimuths to Grid North
True North: -0.36°
Magnetic North: 5.92°

Magnetic Field
Strength: 47291.7nT
Dip Angle: 59.87°
Date: 7/1/2025
Model: BGGM2024

DESIGN TARGET DETAILS

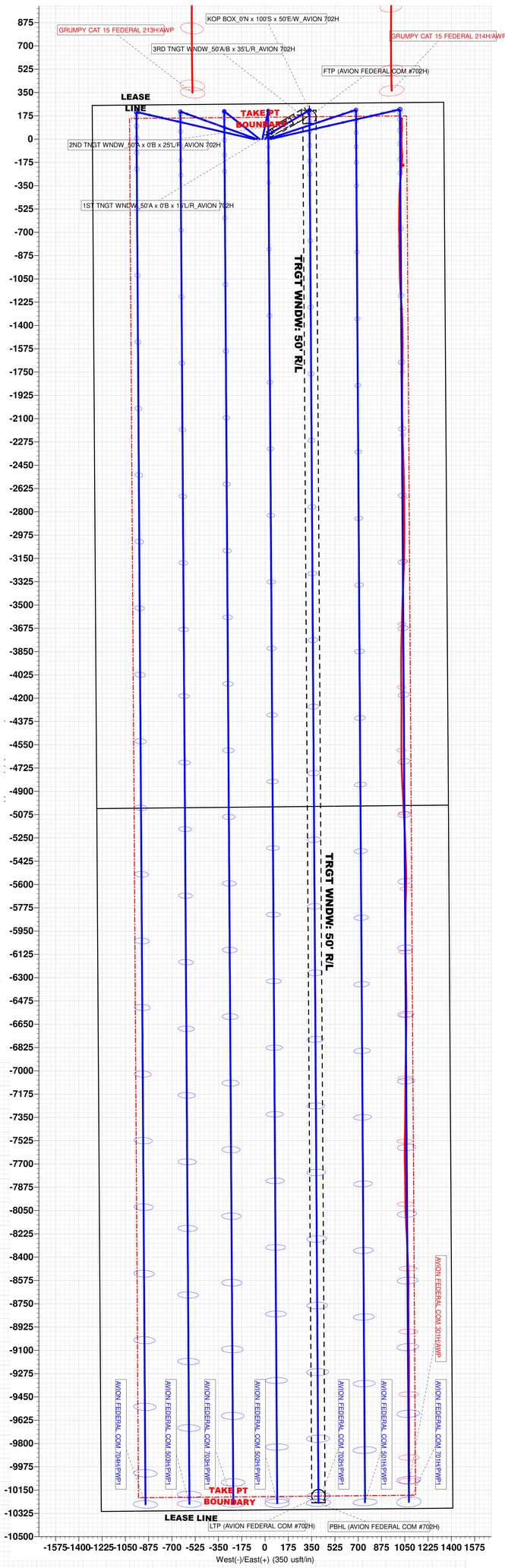
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
1ST TNGT WNDW_50'A x 0'B x 15'L/R_AVION 702H	11697.7	32.0	26.9	472292.22	708754.17	Rectangle (Sides: L50.0 W30.0)
2ND TNGT WNDW_50'A x 0'B x 25'L/R_AVION 702H	11685.6	113.6	158.2	472373.78	708885.52	Rectangle (Sides: L50.0 W50.0)
3RD TNGT WNDW_50'A/B x 35'L/R_AVION 702H	3522.4	180.9	272.4	472441.14	708999.71	Rectangle (Sides: L100.0 W70.0)
KOP BOX_0'N x 100'S x 50'E/W_AVION 702H	11918.5	216.8	333.2	472477.00	709060.50	Rectangle (Sides: L100.0 W100.0)
FTP (AVION FEDERAL COM #702H)	12396.0	168.0	333.5	472428.20	709060.80	Circle (Radius: 50.0)
LTP (AVION FEDERAL COM #702H)	12396.0	-10194.9	401.0	462065.30	709128.30	Circle (Radius: 50.0)
PBHL (AVION FEDERAL COM #702H)	12396.0	-10244.9	401.3	462015.30	709128.60	Rectangle (Sides: L10413.1 W100.0)

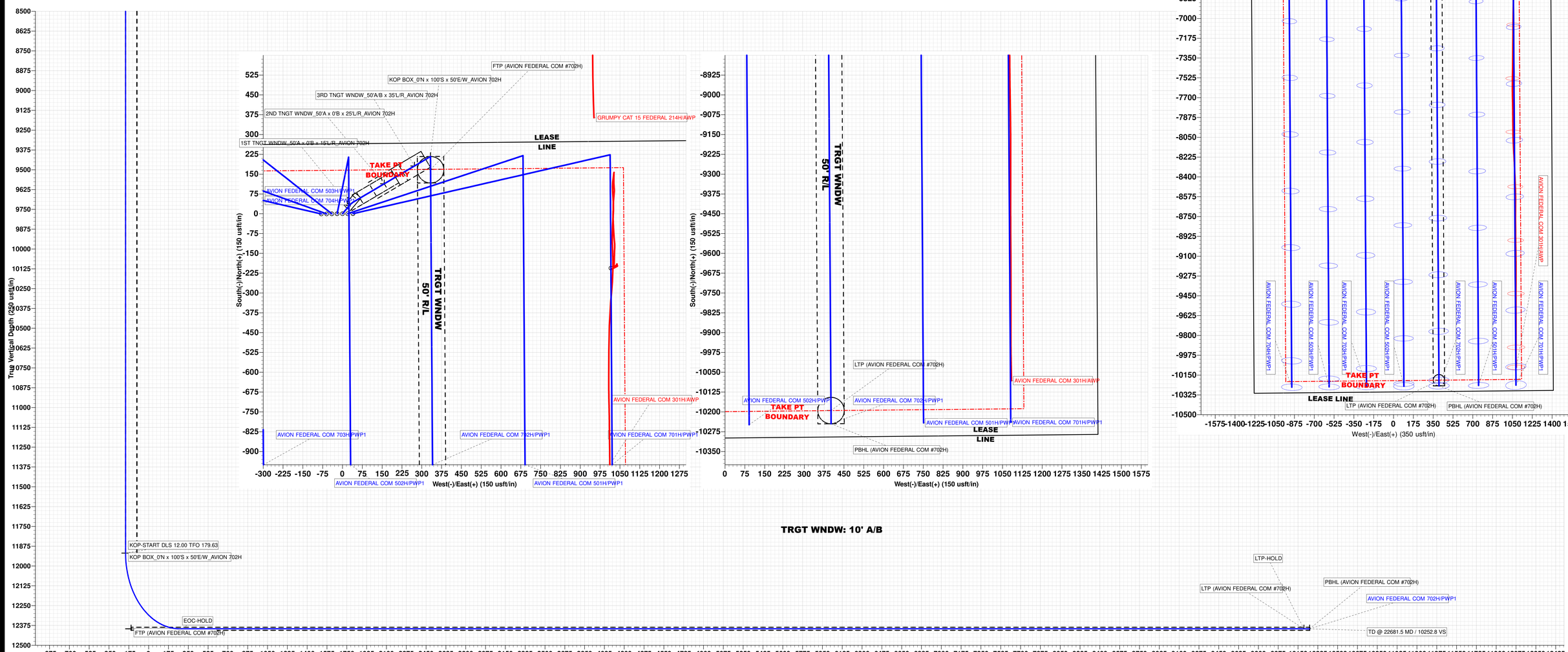




PWP1

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	HOLD TO NUDGE KOP
1200.0	0.00	0.00	1200.0	0.0	0.0	0.0	0.0	NUDGE @ DLS 2.00
1600.0	8.00	40.00	1598.7	21.4	17.9	-20.6	27.9	HOLD SHORT TANGENT
1700.0	8.00	40.00	1697.7	32.0	26.9	-30.9	41.8	START DLS 2.00 TFO 80.59
1851.5	9.00	59.46	1847.6	46.1	43.9	-44.4	64.1	HOLD TANGENT
3547.2	9.00	59.46	3522.4	180.9	272.4	-170.1	329.4	END NUDGE
4447.5	0.00	0.00	4419.0	216.8	333.2	-203.6	400.0	HOLD TO CURVE KOP
11947.0	0.00	0.00	11918.5	216.8	333.2	-203.6	400.0	KOP-START DLS 12.00 TFO 179.63
12697.0	90.00	179.63	12396.0	-260.6	336.3	273.6	877.4	EOC-HOLD
22631.5	90.00	179.63	12396.0	-10194.9	401.0	10202.8	10811.9	LTP-HOLD
22681.5	90.00	179.63	12396.0	-10244.9	401.3	10252.8	10861.9	TD @ 22681.5 MD / 10252.8 VS





Tenaris

TXP® BTC

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.415 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.415 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	23.00 lb/ft	**Plain End Weight**	22.56 lb/ft	**Min. Internal Yield Pressure**	14,530 psi
Drift	4.545 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.670 in.			**Collapse Pressure**	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.200 in.	**Tension Efficiency**	100 %	**Minimum**	12,980 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	14,420 ft-lb
Connection ID	4.658 in.	**Internal Pressure Capacity**	14,530 psi	**Maximum**	15,860 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	92 °/100 ft	**Operating Torque**	24,200 ft-lb
		External Pressure Capacity	14,540 psi	**Yield Torque**	26,900 ft-lb
		Coupling Face Load	302,000 lb		

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.361 (20.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris

TenarisHydril Wedge 441®

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.415 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.415 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	23.00 lb/ft	**Plain End Weight**	22.56 lb/ft	**Min. Internal Yield Pressure**	14,530 psi
Drift	4.545 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.670 in.			**Collapse Pressure**	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	**Tension Efficiency**	90.80 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	662 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.670 in.	**Internal Pressure Capacity**	14,530 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	90.80 %		
Threads per inch	3.40	**Compression Strength**	662 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	83.54 °/100 ft	**Operating Torque**	33,000 ft-lb
		External Pressure Capacity	14,540 psi	**Yield Torque**	39,000 ft-lb
		Coupling Face Load	172,000 lb	**Buck-On**	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 427014
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action will result in review for potential compliance actions.	8/26/2025