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 / 32.296511 / -103.658381

County or Parish/State: LEA / NM

Well Number: 701H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM88163

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553594

Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2833101

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/21/2025

Time Sundry Submitted: 02:31

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: 325' FNL & 1365' FEL Section 22. T23S. R32E. To: 265' FNL & 1305' FEL Section 22. T23S. R32E. C102 Attached. Drilling: Drilling Program, Directional Program, AC Report and Specs Attached.

NOI Attachments

Procedure Description

AVION_FEDERAL_COM_701H_Updated_New_C102_20250121142646.pdf

AVION_FEDERAL_COM_701H_PWP1_DIR_RPT_20250121142643.pdf

Avion_Fed_Com_701H_Updated_Drilling_Program_for_Sundry_20250121142643.pdf

AVION_FEDERAL_COM_701H_PWP1_AC_RPT_20250121142643.pdf

AVION_FEDERAL_COM_701H_PWP1_WPLOT_20250121142643.pdf

5.500_23_P110_CY_WEDGE_441_08192024_20250121142643.pdf

5.500_23_P110_CY_TXP_BTC_08192024_20250121142640.pdf

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Unit or CA Number:

US Well Number: 3002553594

Operator: COG OPERATING LLC

Conditions of Approval

Additional

SEC22_T23S_R32E_AVION_FED_COM_Lea__CONOCOPHILLIPS_COMPANY_45567_JS_20250129105417.pdf

AVION_FED_COM_701H_COAs_20250129105417.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 02:45 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
30-025-53594	98248	WC-025 G-08 S243217P;UPR Wolfcamp

Property Code	Property Name	Well Number
	AVION FEDERAL COM	701H

OGRID No.	Operator Name	Ground Level Elevation
229137	COG OPERATING LLC	3702.1'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	22	23-S	32-E		265 FNL	1305 FEL	32.296676°N	103.658186°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	330 FEL	32.268514°N	103.655024°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640	Infill	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
A	22	23-S	32-E		265 FNL	1305 FEL	32.296676°N	103.658186°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	330 FEL	32.297137°N	103.655032°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	330 FEL	32.268651°N	103.655024°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
COM	☒ Horizontal ☐ Vertical	3702.1'

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

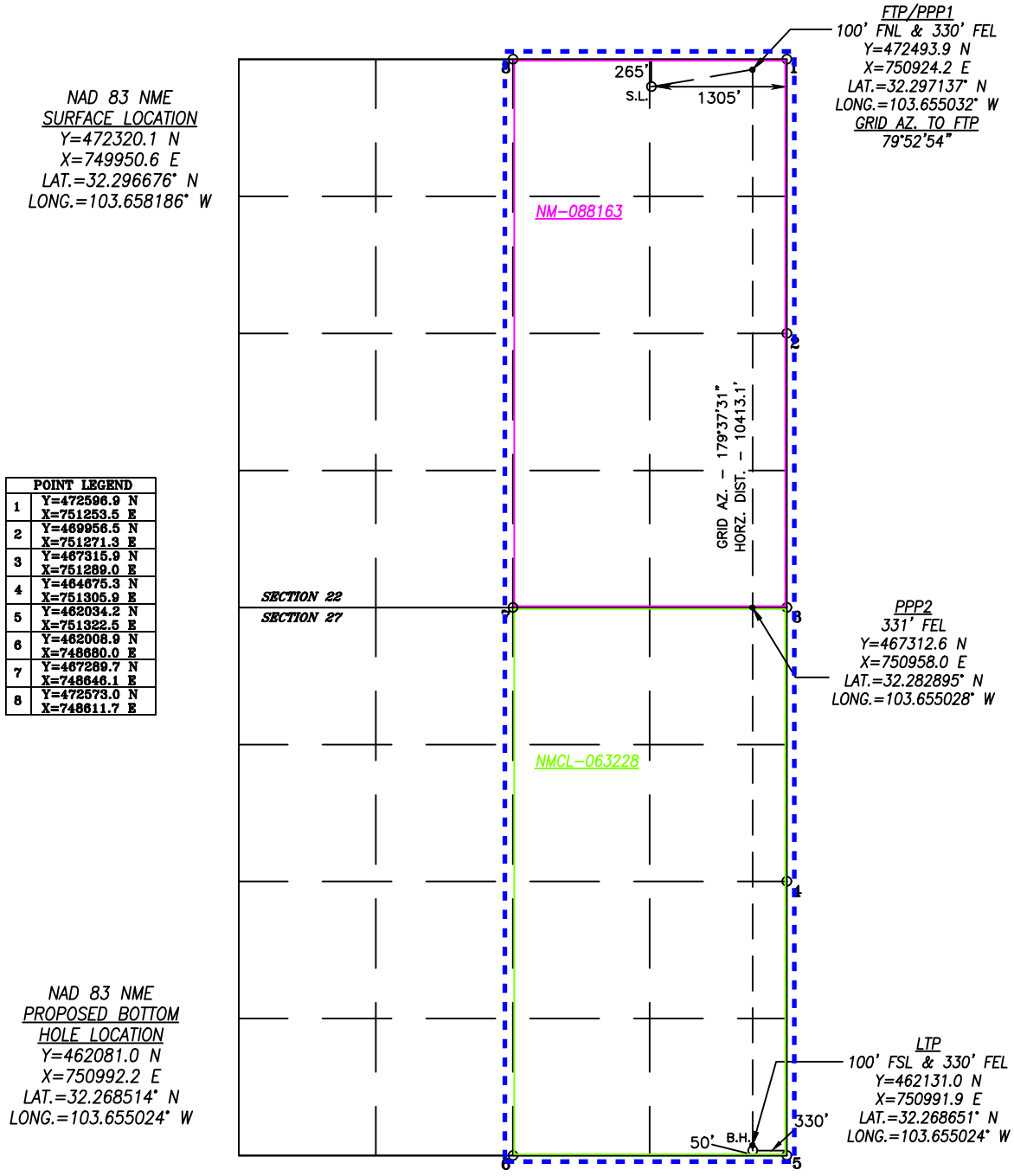
Date of Survey DECEMBER 10, 2024

W.O.#24-1251 | 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.



ConocoPhillips - Avion Fed Com 701H

1. Geologic Formations

TVD of target	12,404' EOL	Pilot hole depth	NA
MD at TD:	22,763'	Deepest expected fresh water:	713'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1227	Water	
Top of Salt	1696	Salt	
Base of Salt	4695	Salt	
Lamar	4943	Salt Water	
Bell Canyon	5000	Salt Water	
Cherry Canyon	5894	Oil/Gas	
Brushy Canyon	7055	Oil/Gas	
Bone Spring	8781	Oil/Gas	
1st Bone Spring Sand	9907	Oil/Gas	
2nd Bone Spring Sand	10516	Oil/Gas	
3rd Bone Spring Sand	11865	Oil/Gas	
Wolfcamp Sand	12304	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	11925	7.625"	29.7	P110-ICY	W513	1.29	1.62	3.02	1.81
6.75"	0	11725	5.5"	23	P110-CY	BTC	1.91	2.13	2.70	2.70
6.75"	11725	22,763	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.

ConocoPhillips - Avion Fed Com 701H

	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?	

ConocoPhillips - Avion Fed Com 701H

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	1202	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	648	12.7	1.68	9.09	72	Lead: Class C
	1055	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	11,425'	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	641	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	648	12.7	1.68	9.09	72	Lead: Class C
	1055	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	11,425'	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	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8065 psi at 12404' 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 701H

OWB
PWP1

Anticollision Report

12 January, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 22,763.3usft	**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	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Con
1,500.0	12,028.4	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr
12,028.4	22,762.9	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	9,077.6	8,995.5	67.9	44.7	2.934	Normal Operations, CC, ES, SF
AVION FEDERAL COM 501H - OWB - PWP1	1,500.0	1,500.0	20.0	13.0	2.860	Normal Operations, CC, ES, SF
AVION FEDERAL COM 502H - OWB - PWP1	1,500.0	1,500.0	60.0	53.0	8.581	CC, ES
AVION FEDERAL COM 502H - OWB - PWP1	1,700.0	1,700.6	65.6	57.7	8.325	SF
AVION FEDERAL COM 503H - OWB - PWP1	1,500.0	1,499.0	99.9	92.9	14.289	CC, ES
AVION FEDERAL COM 503H - OWB - PWP1	1,600.0	1,595.8	103.2	95.7	13.830	SF
AVION FEDERAL COM 702H - OWB - PWP1	1,561.0	1,562.4	30.9	23.3	4.042	CC, ES
AVION FEDERAL COM 702H - OWB - PWP1	22,763.3	22,679.8	680.1	499.2	3.761	SF
AVION FEDERAL COM 703H - OWB - PWP1	1,500.0	1,499.0	80.0	72.7	10.930	CC, ES
AVION FEDERAL COM 703H - OWB - PWP1	1,600.0	1,599.0	81.7	74.2	10.865	SF
AVION FEDERAL COM 704H - OWB - PWP1	1,200.0	1,199.0	119.9	113.6	19.111	CC, ES
AVION FEDERAL COM 704H - OWB - PWP1	1,400.0	1,390.9	126.4	119.3	17.971	SF
CUERVO FEDERAL 23H - OWB - AWP	9,950.0	14,280.0	859.0	750.3	7.900	CC, ES, SF
DIAMONDTAIL 23 FEDERAL 1H - OWB - AWP	6,926.7	6,809.2	950.6	911.6	24.339	CC, ES
DIAMONDTAIL 23 FEDERAL 1H - OWB - AWP	9,400.0	9,239.0	980.2	929.8	19.467	SF
GRUMPY CAT 15 FEDERAL 214H - OWB - AWP	10,794.2	15,725.0	153.2	84.1	2.218	Caution - Monitor Closely, CC, ES
GRUMPY CAT 15 FEDERAL 214H - OWB - AWP	10,800.0	15,725.0	153.3	84.2	2.218	Caution - Monitor Closely, SF
BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)						
BEDLINGTON FED COM 701H - ST01 - ST01	19,111.0	21,154.1	677.9	539.8	4.910	CC, ES
BEDLINGTON FED COM 701H - ST01 - ST01	22,200.0	18,078.2	683.2	541.7	4.829	SF
REDTAIL FED COM PROJECT						
CUERVO FEDERAL 23H - OWB - AWP	9,950.0	14,280.0	859.0	760.1	8.683	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 — **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)	Rule Assigned:	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	3.0	101.94	-206.3	976.1		997.7				
100.0	100.0	97.1	97.1	0.6	3.0	101.95	-206.6	976.0		997.6	992.8	4.77	209.082	
116.8	116.8	112.6	112.6	0.6	3.0	101.96	-206.7	975.9		997.6	992.8	4.80	207.890	

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

ConocoPhillips

Anticollision Report

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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: Distance

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)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
200.0	200.0	193.8	193.8	1.1	3.1	101.99	-207.3	975.9	997.7	992.7	4.97	200.717	
300.0	300.0	293.4	293.4	1.4	3.1	102.03	-208.0	976.0	997.9	992.7	5.16	193.270	
400.0	400.0	394.5	394.5	1.7	3.1	102.07	-208.7	976.0	998.1	992.7	5.35	186.577	
500.0	500.0	495.2	495.2	1.9	3.2	102.10	-209.3	976.1	998.3	992.7	5.53	180.528	
600.0	600.0	595.9	595.8	2.1	3.2	102.14	-209.9	976.0	998.3	992.6	5.70	175.058	
700.0	700.0	696.2	696.2	2.3	3.3	102.17	-210.5	975.9	998.3	992.4	5.87	170.075	
800.0	800.0	796.9	796.9	2.5	3.3	102.19	-210.8	975.6	998.2	992.1	6.03	165.522	
900.0	900.0	897.1	897.1	2.7	3.4	102.20	-210.9	975.5	998.0	991.8	6.19	161.311	
948.7	948.7	944.4	944.4	2.8	3.4	102.20	-210.9	975.4	998.0	991.7	6.26	159.387	
1,000.0	1,000.0	995.9	995.9	2.9	3.4	102.20	-211.0	975.4	998.0	991.7	6.34	157.401	
1,011.7	1,011.7	1,007.4	1,007.4	2.9	3.4	102.20	-211.0	975.4	998.0	991.6	6.36	156.971	
1,100.0	1,100.0	1,094.1	1,094.1	3.1	3.4	102.20	-211.0	975.5	998.1	991.6	6.49	153.773	
1,200.0	1,200.0	1,193.6	1,193.6	3.2	3.5	102.20	-211.0	975.6	998.2	991.6	6.64	150.326	
1,300.0	1,300.0	1,292.1	1,292.1	3.4	3.5	102.20	-210.9	976.0	998.5	991.7	6.79	147.047	
1,400.0	1,400.0	1,391.3	1,391.3	3.5	3.5	102.19	-210.8	976.4	999.0	992.0	6.94	143.886	
1,500.0	1,500.0	1,491.3	1,491.3	3.7	3.5	102.18	-210.9	976.9	999.4	992.3	7.10	140.823	
1,600.0	1,600.0	1,592.6	1,592.6	3.8	3.6	25.13	-210.9	977.3	998.2	990.8	7.37	135.514	
1,700.0	1,699.8	1,693.0	1,693.0	4.0	3.6	25.29	-210.8	977.5	993.7	986.0	7.73	128.618	
1,800.0	1,799.5	1,793.5	1,793.5	4.3	3.6	25.56	-210.6	977.7	986.0	977.9	8.07	122.128	
1,900.0	1,898.7	1,891.6	1,891.6	4.6	3.6	25.94	-210.4	978.0	975.2	966.8	8.41	115.937	
2,000.0	1,997.5	1,990.3	1,990.3	4.8	3.7	26.46	-210.2	978.5	961.5	952.8	8.75	109.906	
2,100.0	2,095.6	2,087.7	2,087.7	5.1	3.7	27.11	-210.0	978.8	944.8	935.7	9.08	104.034	
2,125.0	2,120.0	2,112.1	2,112.1	5.1	3.7	27.29	-210.0	979.0	940.1	931.0	9.11	103.146	
2,200.0	2,193.3	2,186.6	2,186.5	5.2	3.7	27.74	-209.8	979.2	925.9	916.6	9.26	99.974	
2,300.0	2,290.9	2,281.7	2,281.7	5.4	3.8	28.33	-209.5	979.7	907.1	897.6	9.50	95.477	
2,400.0	2,388.5	2,380.0	2,379.9	5.6	3.8	28.97	-209.3	980.2	888.4	878.6	9.75	91.120	
2,500.0	2,486.2	2,477.1	2,477.1	5.8	3.9	29.62	-209.0	980.8	869.9	859.9	10.00	86.988	
2,600.0	2,583.8	2,574.0	2,574.0	6.0	3.9	30.29	-208.5	981.5	851.6	841.4	10.25	83.086	
2,700.0	2,681.4	2,672.1	2,672.1	6.2	4.0	30.99	-208.0	982.3	833.5	823.0	10.50	79.356	
2,800.0	2,779.1	2,769.1	2,769.0	6.4	4.0	31.69	-207.3	983.2	815.5	804.8	10.75	75.838	
2,900.0	2,876.7	2,867.5	2,867.4	6.5	4.1	32.43	-206.5	984.2	797.8	786.8	11.01	72.484	
3,000.0	2,974.3	2,964.0	2,964.0	6.7	4.2	33.18	-205.6	985.1	780.1	768.8	11.26	69.305	
3,100.0	3,071.9	3,061.7	3,061.6	6.9	4.2	33.96	-204.6	986.3	762.7	751.2	11.51	66.280	
3,200.0	3,169.6	3,159.0	3,158.9	7.1	4.3	34.75	-203.3	987.6	745.5	733.7	11.76	63.411	
3,300.0	3,267.2	3,257.5	3,257.4	7.3	4.4	35.59	-202.0	989.0	728.5	716.5	12.00	60.681	
3,400.0	3,364.8	3,354.9	3,354.7	7.5	4.5	36.44	-200.7	990.5	711.7	699.4	12.25	58.080	
3,500.0	3,462.5	3,452.9	3,452.7	7.7	4.5	37.35	-199.4	991.9	695.0	682.5	12.50	55.605	
3,600.0	3,560.1	3,551.8	3,551.6	7.9	4.6	38.30	-198.0	993.4	678.5	665.8	12.74	53.251	
3,700.0	3,657.7	3,649.1	3,648.9	8.2	4.7	39.28	-196.6	994.8	662.2	649.2	12.98	51.007	
3,800.0	3,755.4	3,746.8	3,746.6	8.4	4.8	40.32	-195.1	996.2	646.0	632.8	13.22	48.871	
3,900.0	3,853.0	3,845.7	3,845.5	8.6	4.9	41.42	-193.7	997.6	630.1	616.7	13.45	46.840	
4,000.0	3,950.6	3,947.0	3,946.8	8.8	5.0	42.64	-192.5	998.6	614.2	600.5	13.67	44.919	
4,100.0	4,048.2	4,046.4	4,046.1	9.0	5.0	43.94	-191.4	999.0	598.0	584.1	13.87	43.104	
4,200.0	4,145.9	4,143.7	4,143.5	9.2	5.1	45.32	-190.5	999.1	582.0	568.0	14.07	41.377	
4,300.0	4,243.5	4,239.5	4,239.3	9.4	5.1	46.83	-190.4	999.0	566.6	552.4	14.26	39.750	
4,400.0	4,341.1	4,335.1	4,334.9	9.6	5.0	48.47	-190.9	998.7	552.0	537.5	14.47	38.150	
4,500.0	4,438.8	4,429.8	4,429.5	9.8	5.0	50.19	-191.7	998.8	538.2	523.5	14.70	36.625	
4,600.0	4,536.4	4,522.3	4,522.1	10.0	5.0	51.98	-193.2	999.2	525.8	510.8	14.93	35.215	
4,700.0	4,634.0	4,616.9	4,616.6	10.2	5.1	53.92	-195.5	1,000.1	514.9	499.7	15.16	33.958	
4,800.0	4,731.7	4,721.4	4,721.1	10.4	5.1	56.16	-198.0	1,000.9	504.5	489.1	15.38	32.797	
4,900.0	4,829.3	4,827.6	4,827.2	10.7	5.0	58.53	-198.9	1,000.2	492.7	477.1	15.56	31.656	

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 701H
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 701H	**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
5,000.0	4,926.9	4,924.6	4,924.3	10.9	5.0	60.83	-199.6	999.0	481.2	465.4	15.75	30.554	
5,100.0	5,024.5	5,021.6	5,021.2	11.1	4.9	63.25	-200.3	997.6	470.5	454.5	15.94	29.520	
5,200.0	5,122.2	5,119.6	5,119.2	11.3	4.9	65.80	-201.0	996.3	460.7	444.6	16.13	28.563	
5,300.0	5,219.8	5,217.4	5,217.1	11.5	4.8	68.44	-201.7	995.0	451.9	435.6	16.33	27.674	
5,400.0	5,317.4	5,314.7	5,314.3	11.7	4.8	71.15	-202.2	993.7	443.9	427.4	16.53	26.849	
5,500.0	5,415.1	5,411.2	5,410.8	11.9	4.7	73.93	-202.9	992.4	437.2	420.5	16.75	26.105	
5,600.0	5,512.7	5,507.9	5,507.5	12.1	4.7	76.78	-203.5	991.2	431.6	414.7	16.97	25.431	
5,700.0	5,610.3	5,605.3	5,604.9	12.4	4.6	79.72	-204.3	990.0	427.3	410.1	17.21	24.831	
5,797.0	5,705.0	5,700.0	5,699.6	12.6	4.6	82.62	-205.0	988.8	424.2	406.8	17.44	24.321	
5,800.0	5,708.0	5,703.2	5,702.8	12.6	4.6	82.72	-205.0	988.8	424.2	406.7	17.45	24.309	
5,900.0	5,805.8	5,800.8	5,800.3	12.9	4.6	85.61	-205.8	987.6	422.3	404.5	17.89	23.603	
6,000.0	5,904.0	5,909.1	5,908.6	13.1	4.6	88.46	-205.3	986.9	420.8	402.6	18.14	23.200	
6,100.0	6,002.4	6,027.3	6,026.7	13.3	4.6	90.96	-200.3	987.7	416.7	398.3	18.37	22.677	
6,200.0	6,101.2	6,129.1	6,128.3	13.5	4.6	92.82	-192.8	988.3	410.0	391.4	18.61	22.036	
6,300.0	6,200.2	6,248.2	6,246.7	13.7	4.6	94.73	-180.7	988.6	400.9	382.1	18.86	21.263	
6,400.0	6,299.5	6,359.5	6,356.7	13.9	4.7	96.16	-163.6	989.1	386.7	367.7	19.10	20.251	
6,500.0	6,399.0	6,458.9	6,454.7	14.1	4.7	97.22	-147.5	989.6	371.8	352.5	19.32	19.245	
6,600.0	6,498.6	6,555.8	6,550.4	14.3	4.8	98.05	-131.9	990.2	356.9	337.4	19.53	18.278	
6,700.0	6,598.3	6,656.9	6,650.2	14.4	4.8	98.81	-115.5	990.3	341.8	322.1	19.74	17.317	
6,800.0	6,698.2	6,755.3	6,747.3	14.6	4.9	99.58	-99.3	988.9	326.1	306.2	19.94	16.354	
6,900.0	6,798.2	6,853.7	6,844.3	14.8	5.0	100.10	-83.2	987.6	310.3	290.1	20.13	15.413	
7,000.0	6,898.1	6,951.9	6,941.1	14.9	5.0	100.29	-67.4	986.6	294.4	274.1	20.30	14.501	
7,046.9	6,945.0	6,998.1	6,986.8	14.9	5.1	177.36	-60.0	986.2	286.9	266.6	20.35	14.098	
7,100.0	6,998.1	7,050.6	7,038.6	14.9	5.1	177.37	-51.6	985.8	278.4	258.0	20.41	13.643	
7,200.0	7,098.1	7,146.7	7,133.5	15.0	5.2	177.39	-36.7	985.0	262.9	242.4	20.54	12.802	
7,300.0	7,198.1	7,242.7	7,228.6	15.1	5.3	177.35	-22.9	984.6	248.5	227.8	20.67	12.023	
7,400.0	7,298.1	7,337.6	7,322.7	15.1	5.4	177.28	-10.4	984.3	235.4	214.6	20.79	11.320	
7,500.0	7,398.1	7,434.5	7,418.8	15.2	5.5	177.14	0.9	984.3	223.7	202.8	20.92	10.693	
7,600.0	7,498.1	7,532.1	7,515.9	15.2	5.7	176.89	11.4	984.7	213.0	191.9	21.05	10.116	
7,700.0	7,598.1	7,638.8	7,621.8	15.3	5.8	176.62	23.9	985.0	201.3	180.0	21.24	9.475	
7,800.0	7,698.1	7,737.1	7,719.2	15.3	5.9	176.34	37.6	985.1	187.4	166.0	21.39	8.761	
7,900.0	7,798.1	7,834.8	7,816.0	15.4	6.0	175.78	50.5	985.9	174.3	152.8	21.52	8.101	
8,000.0	7,898.1	7,933.6	7,914.0	15.4	6.2	175.06	63.0	987.0	161.7	140.1	21.65	7.470	
8,100.0	7,998.1	8,030.8	8,010.5	15.5	6.3	174.30	74.6	988.0	150.0	128.2	21.77	6.889	
8,200.0	8,098.1	8,129.1	8,108.3	15.6	6.4	173.49	85.1	988.9	139.4	117.5	21.90	6.367	
8,300.0	8,198.1	8,229.9	8,208.4	15.6	6.6	173.15	96.4	988.4	128.2	106.1	22.07	5.807	
8,400.0	8,298.1	8,328.0	8,306.0	15.7	6.7	172.91	107.1	987.6	117.3	95.1	22.22	5.280	
8,500.0	8,398.1	8,426.1	8,403.6	15.7	6.9	172.52	116.6	987.2	107.7	85.3	22.36	4.815	
8,600.0	8,498.1	8,525.4	8,502.5	15.8	7.0	171.95	125.3	987.0	98.9	76.4	22.51	4.393	
8,700.0	8,598.1	8,624.8	8,601.5	15.9	7.1	171.09	134.2	987.1	90.1	67.5	22.66	3.978	
8,800.0	8,698.1	8,723.5	8,699.8	15.9	7.3	170.09	142.0	987.3	82.3	59.5	22.78	3.614	
8,900.0	8,798.1	8,822.3	8,798.4	16.0	7.4	169.17	148.8	987.4	75.6	52.7	22.91	3.300	
9,000.0	8,898.1	8,921.1	8,897.0	16.0	7.6	168.14	154.3	987.6	70.1	47.1	23.03	3.046	
9,077.6	8,975.7	8,995.5	8,971.4	16.1	7.6	167.48	156.6	987.9	67.9	44.7	23.13	2.934	Normal Operations, CC, ES, SF
9,100.0	8,998.1	9,016.6	8,992.6	16.1	7.6	167.54	156.4	987.9	68.1	44.9	23.18	2.936	Normal Operations
9,200.0	9,098.1	9,110.4	9,086.1	16.2	7.7	169.24	150.9	986.9	73.7	50.1	23.56	3.127	
9,300.0	9,198.1	9,199.9	9,174.3	16.2	7.9	172.22	135.8	985.1	90.0	65.7	24.32	3.702	
9,400.0	9,298.1	9,282.5	9,253.3	16.3	8.1	175.24	112.4	982.4	118.0	92.5	25.51	4.628	
9,500.0	9,398.1	9,358.0	9,322.9	16.3	8.2	176.09	83.0	982.8	157.2	130.4	26.77	5.872	
9,600.0	9,498.1	9,433.0	9,388.9	16.4	8.4	176.11	47.7	985.1	204.6	176.9	27.71	7.383	
9,700.0	9,598.1	9,499.0	9,444.3	16.5	8.5	176.66	11.8	985.5	259.0	230.2	28.78	8.999	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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
9,800.0	9,698.1	9,555.0	9,489.0	16.5	8.7	177.50	-22.0	983.9	319.5	289.5	30.01	10.644	
9,900.0	9,798.1	9,594.0	9,517.8	16.6	8.9	178.05	-48.2	982.4	387.0	355.5	31.50	12.286	
10,000.0	9,898.1	9,641.0	9,549.1	16.6	9.1	178.47	-83.1	981.4	461.0	428.6	32.45	14.207	
10,100.0	9,998.1	9,655.9	9,558.2	16.7	9.1	178.53	-95.0	981.3	539.4	505.6	33.75	15.981	
10,200.0	10,098.1	9,689.0	9,576.5	16.8	9.2	178.56	-122.5	981.9	622.1	587.6	34.55	18.007	
10,300.0	10,198.1	9,689.0	9,576.5	16.8	9.2	178.56	-122.5	981.9	707.4	671.9	35.56	19.892	
10,400.0	10,298.1	9,713.4	9,588.5	16.9	9.3	178.53	-143.8	982.6	795.0	758.8	36.21	21.956	
10,500.0	10,398.1	9,736.0	9,598.3	16.9	9.4	178.52	-164.1	983.2	884.7	847.9	36.81	24.033	
10,600.0	10,498.1	9,736.0	9,598.3	17.0	9.4	178.52	-164.1	983.2	975.6	938.2	37.48	26.029	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	-90.57	-0.2	-20.0	20.0				
100.0	100.0	100.0	100.0	0.6	0.6	-90.57	-0.2	-20.0	20.0	18.4	1.58	12.635	
200.0	200.0	200.0	200.0	1.1	1.1	-90.57	-0.2	-20.0	20.0	17.5	2.52	7.940	
300.0	300.0	300.0	300.0	1.4	1.4	-90.57	-0.2	-20.0	20.0	16.9	3.14	6.360	
400.0	400.0	400.0	400.0	1.7	1.7	-90.57	-0.2	-20.0	20.0	16.4	3.65	5.481	
500.0	500.0	500.0	500.0	1.9	1.9	-90.57	-0.2	-20.0	20.0	15.9	4.08	4.898	
600.0	600.0	600.0	600.0	2.1	2.1	-90.57	-0.2	-20.0	20.0	15.5	4.47	4.473	
700.0	700.0	700.0	700.0	2.3	2.3	-90.57	-0.2	-20.0	20.0	15.2	4.82	4.146	
800.0	800.0	800.0	800.0	2.5	2.5	-90.57	-0.2	-20.0	20.0	14.9	5.15	3.883	
900.0	900.0	900.0	900.0	2.7	2.7	-90.57	-0.2	-20.0	20.0	14.5	5.46	3.666	
1,000.0	1,000.0	1,000.0	1,000.0	2.9	2.9	-90.57	-0.2	-20.0	20.0	14.3	5.74	3.483	
1,100.0	1,100.0	1,100.0	1,100.0	3.1	3.1	-90.57	-0.2	-20.0	20.0	14.0	6.02	3.325	
1,200.0	1,200.0	1,200.0	1,200.0	3.2	3.2	-90.57	-0.2	-20.0	20.0	13.7	6.28	3.187	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-90.57	-0.2	-20.0	20.0	13.5	6.52	3.066	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-90.57	-0.2	-20.0	20.0	13.2	6.76	2.958	Normal Operations
1,500.0	1,500.0	1,500.0	1,500.0	3.7	3.7	-90.57	-0.2	-20.0	20.0	13.0	6.99	2.860	Normal Operations, CC, ES, SF
1,600.0	1,600.0	1,600.0	1,600.0	3.8	3.8	-168.65	-0.2	-20.0	21.7	14.4	7.35	2.953	Normal Operations
1,700.0	1,699.8	1,699.8	1,699.8	4.0	4.0	-170.83	-0.2	-20.0	26.9	19.1	7.80	3.444	
1,800.0	1,799.5	1,799.5	1,799.5	4.3	4.1	-173.05	-0.2	-20.0	35.5	27.3	8.23	4.310	
1,900.0	1,898.7	1,898.7	1,898.7	4.6	4.3	-174.80	-0.2	-20.0	47.6	39.0	8.66	5.501	
2,000.0	1,997.5	1,997.5	1,997.5	4.8	4.4	-176.07	-0.2	-20.0	63.2	54.1	9.06	6.974	
2,100.0	2,095.6	2,098.4	2,098.4	5.1	4.5	-176.80	0.3	-18.4	80.6	71.1	9.56	8.433	
2,125.0	2,120.0	2,123.7	2,123.6	5.1	4.6	-176.90	0.6	-17.5	85.0	75.3	9.65	8.808	
2,200.0	2,193.3	2,200.1	2,200.0	5.2	4.7	-177.06	2.0	-13.4	97.1	87.1	9.96	9.747	
2,300.0	2,290.9	2,303.0	2,302.4	5.4	4.9	-176.97	4.8	-4.8	110.1	99.7	10.41	10.584	
2,400.0	2,388.5	2,406.6	2,405.3	5.6	5.1	-176.64	8.9	7.3	119.7	108.8	10.84	11.035	
2,500.0	2,486.2	2,510.9	2,508.2	5.8	5.3	-176.08	14.1	23.1	125.6	114.4	11.26	11.159	
2,600.0	2,583.8	2,612.5	2,608.0	6.0	5.4	-175.37	20.1	41.3	128.7	117.2	11.54	11.149	
2,700.0	2,681.4	2,712.5	2,706.1	6.2	5.6	-174.68	26.1	59.4	131.5	119.6	11.91	11.048	
2,800.0	2,779.1	2,812.4	2,804.2	6.4	5.8	-174.02	32.1	77.5	134.4	122.1	12.27	10.952	
2,900.0	2,876.7	2,912.3	2,902.3	6.5	5.9	-173.38	38.1	95.6	137.3	124.6	12.64	10.860	
3,000.0	2,974.3	3,012.3	3,000.4	6.7	6.1	-172.78	44.1	113.7	140.2	127.2	13.01	10.772	
3,100.0	3,071.9	3,112.2	3,098.5	6.9	6.3	-172.19	50.1	131.8	143.1	129.7	13.39	10.688	
3,200.0	3,169.6	3,212.2	3,196.6	7.1	6.5	-171.63	56.1	149.9	146.0	132.3	13.77	10.608	
3,300.0	3,267.2	3,312.1	3,294.8	7.3	6.6	-171.10	62.1	168.0	149.0	134.8	14.15	10.531	
3,400.0	3,364.8	3,412.1	3,392.9	7.5	6.8	-170.58	68.1	186.1	151.9	137.4	14.53	10.458	
3,500.0	3,462.5	3,512.0	3,491.0	7.7	7.0	-170.08	74.1	204.2	154.9	140.0	14.91	10.388	
3,600.0	3,560.1	3,612.0	3,589.1	7.9	7.2	-169.61	80.1	222.3	157.9	142.6	15.29	10.322	
3,700.0	3,657.7	3,711.9	3,687.2	8.2	7.4	-169.15	86.1	240.4	160.8	145.2	15.68	10.258	
3,800.0	3,755.4	3,811.9	3,785.3	8.4	7.6	-168.70	92.1	258.5	163.8	147.8	16.07	10.198	
3,900.0	3,853.0	3,911.8	3,883.4	8.6	7.8	-168.28	98.1	276.6	166.8	150.4	16.45	10.141	
4,000.0	3,950.6	4,011.8	3,981.5	8.8	8.0	-167.86	104.1	294.7	169.9	153.0	16.84	10.086	
4,100.0	4,048.2	4,111.7	4,079.6	9.0	8.1	-167.47	110.1	312.8	172.9	155.7	17.23	10.033	
4,200.0	4,145.9	4,211.7	4,177.8	9.2	8.3	-167.08	116.1	330.9	175.9	158.3	17.62	9.983	
4,300.0	4,243.5	4,311.6	4,275.9	9.4	8.5	-166.71	122.1	349.0	179.0	160.9	18.01	9.935	
4,400.0	4,341.1	4,411.6	4,374.0	9.6	8.7	-166.35	128.1	367.1	182.0	163.6	18.40	9.890	
4,500.0	4,438.8	4,511.5	4,472.1	9.8	8.9	-166.00	134.1	385.2	185.1	166.3	18.80	9.846	
4,600.0	4,536.4	4,611.4	4,570.2	10.0	9.1	-165.67	140.1	403.3	188.1	168.9	19.19	9.804	
4,700.0	4,634.0	4,711.4	4,668.3	10.2	9.3	-165.34	146.1	421.4	191.2	171.6	19.58	9.764	
4,800.0	4,731.7	4,811.3	4,766.4	10.4	9.5	-165.03	152.1	439.6	194.3	174.3	19.97	9.726	
4,900.0	4,829.3	4,911.3	4,864.5	10.7	9.7	-164.72	158.1	457.7	197.3	177.0	20.37	9.689	

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 701H
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 701H	**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
5,000.0	4,926.9	5,011.2	4,962.6	10.9	9.9	-164.43	164.1	475.8	200.4	179.7	20.76	9.654	
5,100.0	5,024.5	5,111.2	5,060.8	11.1	10.1	-164.14	170.1	493.9	203.5	182.3	21.15	9.620	
5,200.0	5,122.2	5,211.1	5,158.9	11.3	10.3	-163.86	176.1	512.0	206.6	185.0	21.55	9.588	
5,300.0	5,219.8	5,311.1	5,257.0	11.5	10.5	-163.59	182.1	530.1	209.7	187.8	21.94	9.557	
5,400.0	5,317.4	5,411.0	5,355.1	11.7	10.7	-163.33	188.1	548.2	212.8	190.5	22.34	9.527	
5,500.0	5,415.1	5,511.0	5,453.2	11.9	10.9	-163.08	194.1	566.3	215.9	193.2	22.73	9.499	
5,600.0	5,512.7	5,608.8	5,549.3	12.1	11.1	-162.86	199.9	583.8	219.2	196.1	23.09	9.494	
5,700.0	5,610.3	5,703.6	5,642.7	12.4	11.3	-162.84	205.0	598.9	224.4	200.9	23.49	9.556	
5,797.0	5,705.0	5,795.2	5,733.4	12.6	11.5	-163.04	209.1	611.5	231.7	207.8	23.86	9.708	
5,800.0	5,708.0	5,800.0	5,738.1	12.6	11.5	-163.06	209.3	612.1	232.0	208.1	23.88	9.711	
5,900.0	5,805.8	5,892.3	5,829.7	12.9	11.7	-163.42	212.8	622.5	240.9	216.5	24.40	9.873	
6,000.0	5,904.0	5,986.2	5,923.2	13.1	11.9	-163.86	215.6	631.0	250.4	225.6	24.76	10.113	
6,100.0	6,002.4	6,079.8	6,016.6	13.3	12.0	-164.35	217.7	637.2	260.5	235.4	25.11	10.377	
6,200.0	6,101.2	6,173.1	6,109.8	13.5	12.2	-164.89	219.0	641.3	271.3	245.9	25.43	10.667	
6,300.0	6,200.2	6,266.1	6,202.8	13.7	12.3	-165.46	219.6	643.2	282.7	257.0	25.72	10.993	
6,400.0	6,299.5	6,362.9	6,299.5	13.9	12.4	-166.05	219.7	643.4	294.3	268.3	25.98	11.326	
6,500.0	6,399.0	6,462.3	6,399.0	14.1	12.5	-166.55	219.7	643.4	304.4	278.1	26.25	11.595	
6,600.0	6,498.6	6,561.9	6,498.6	14.3	12.5	-166.94	219.7	643.4	312.8	286.3	26.51	11.800	
6,700.0	6,598.3	6,661.7	6,598.3	14.4	12.6	-167.23	219.7	643.4	319.6	292.8	26.76	11.942	
6,800.0	6,698.2	6,761.6	6,698.2	14.6	12.7	-167.44	219.7	643.4	324.6	297.6	27.00	12.023	
6,900.0	6,798.2	6,861.5	6,798.2	14.8	12.7	-167.58	219.7	643.4	328.0	300.8	27.22	12.047	
7,000.0	6,898.1	6,961.5	6,898.1	14.9	12.8	-167.65	219.7	643.4	329.6	302.2	27.43	12.016	
7,046.9	6,945.0	7,008.3	6,945.0	14.9	12.8	-90.56	219.7	643.4	329.8	302.3	27.49	11.998	
7,100.0	6,998.1	7,061.5	6,998.1	14.9	12.9	-90.56	219.7	643.4	329.8	302.3	27.54	11.977	
7,200.0	7,098.1	7,161.5	7,098.1	15.0	13.0	-90.56	219.7	643.4	329.8	302.2	27.66	11.925	
7,300.0	7,198.1	7,261.5	7,198.1	15.1	13.0	-90.56	219.7	643.4	329.8	302.0	27.78	11.873	
7,400.0	7,298.1	7,361.5	7,298.1	15.1	13.1	-90.56	219.7	643.4	329.8	301.9	27.90	11.822	
7,500.0	7,398.1	7,461.5	7,398.1	15.2	13.2	-90.56	219.7	643.4	329.8	301.8	28.02	11.771	
7,600.0	7,498.1	7,561.5	7,498.1	15.2	13.2	-90.56	219.7	643.4	329.8	301.7	28.14	11.720	
7,700.0	7,598.1	7,661.5	7,598.1	15.3	13.3	-90.56	219.7	643.4	329.8	301.6	28.26	11.669	
7,800.0	7,698.1	7,761.5	7,698.1	15.3	13.4	-90.56	219.7	643.4	329.8	301.4	28.39	11.619	
7,900.0	7,798.1	7,861.5	7,798.1	15.4	13.4	-90.56	219.7	643.4	329.8	301.3	28.51	11.569	
8,000.0	7,898.1	7,961.5	7,898.1	15.4	13.5	-90.56	219.7	643.4	329.8	301.2	28.63	11.519	
8,100.0	7,998.1	8,061.5	7,998.1	15.5	13.6	-90.56	219.7	643.4	329.8	301.1	28.76	11.469	
8,200.0	8,098.1	8,161.5	8,098.1	15.6	13.6	-90.56	219.7	643.4	329.8	300.9	28.88	11.420	
8,300.0	8,198.1	8,261.5	8,198.1	15.6	13.7	-90.56	219.7	643.4	329.8	300.8	29.00	11.371	
8,400.0	8,298.1	8,361.5	8,298.1	15.7	13.8	-90.56	219.7	643.4	329.8	300.7	29.13	11.323	
8,500.0	8,398.1	8,461.5	8,398.1	15.7	13.9	-90.56	219.7	643.4	329.8	300.6	29.25	11.274	
8,600.0	8,498.1	8,561.5	8,498.1	15.8	13.9	-90.56	219.7	643.4	329.8	300.4	29.38	11.226	
8,700.0	8,598.1	8,661.5	8,598.1	15.9	14.0	-90.56	219.7	643.4	329.8	300.3	29.51	11.178	
8,800.0	8,698.1	8,761.5	8,698.1	15.9	14.1	-90.56	219.7	643.4	329.8	300.2	29.63	11.131	
8,900.0	8,798.1	8,861.5	8,798.1	16.0	14.1	-90.56	219.7	643.4	329.8	300.1	29.76	11.083	
9,000.0	8,898.1	8,961.5	8,898.1	16.0	14.2	-90.56	219.7	643.4	329.8	299.9	29.88	11.036	
9,100.0	8,998.1	9,061.5	8,998.1	16.1	14.3	-90.56	219.7	643.4	329.8	299.8	30.01	10.990	
9,200.0	9,098.1	9,161.5	9,098.1	16.2	14.3	-90.56	219.7	643.4	329.8	299.7	30.14	10.943	
9,300.0	9,198.1	9,261.5	9,198.1	16.2	14.4	-90.56	219.7	643.4	329.8	299.5	30.27	10.897	
9,400.0	9,298.1	9,361.5	9,298.1	16.3	14.5	-90.56	219.7	643.4	329.8	299.4	30.39	10.851	
9,500.0	9,398.1	9,461.5	9,398.1	16.3	14.6	-90.56	219.7	643.4	329.8	299.3	30.52	10.805	
9,600.0	9,498.1	9,561.5	9,498.1	16.4	14.6	-90.56	219.7	643.4	329.8	299.2	30.65	10.760	
9,700.0	9,598.1	9,661.5	9,598.1	16.5	14.7	-90.56	219.7	643.4	329.8	299.0	30.78	10.715	
9,800.0	9,698.1	9,761.5	9,698.1	16.5	14.8	-90.56	219.7	643.4	329.8	298.9	30.91	10.670	

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 701H
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 701H	**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
9,900.0	9,798.1	9,861.5	9,798.1	16.6	14.8	-90.56	219.7	643.4	329.8	298.8	31.04	10.626	
10,000.0	9,898.1	9,961.5	9,898.1	16.6	14.9	-90.56	219.7	643.4	329.8	298.6	31.17	10.581	
10,100.0	9,998.1	10,061.5	9,998.1	16.7	15.0	-90.56	219.7	643.4	329.8	298.5	31.30	10.537	
10,200.0	10,098.1	10,161.5	10,098.1	16.8	15.1	-90.56	219.7	643.4	329.8	298.4	31.43	10.494	
10,300.0	10,198.1	10,261.5	10,198.1	16.8	15.1	-90.56	219.7	643.4	329.8	298.3	31.56	10.450	
10,400.0	10,298.1	10,361.5	10,298.1	16.9	15.2	-90.56	219.7	643.4	329.8	298.1	31.69	10.407	
10,500.0	10,398.1	10,461.5	10,398.1	16.9	15.3	-90.56	219.7	643.4	329.8	298.0	31.82	10.364	
10,565.4	10,463.6	10,526.9	10,463.6	17.0	15.3	-90.56	219.7	643.4	329.8	297.9	31.90	10.339	
10,600.0	10,498.1	10,561.5	10,498.1	17.0	15.3	-90.56	219.7	643.4	329.8	297.9	31.93	10.328	
10,604.4	10,502.6	10,565.9	10,502.6	17.0	15.3	-90.57	219.6	643.4	329.8	297.9	31.94	10.327	
10,700.0	10,598.1	10,659.7	10,595.6	17.1	15.4	-92.43	208.9	643.5	330.0	298.0	32.06	10.295	
10,800.0	10,698.1	10,750.0	10,681.5	17.1	15.4	-97.15	181.6	643.6	332.5	300.3	32.26	10.307	
10,900.0	10,798.1	10,827.8	10,750.3	17.2	15.4	-103.24	145.4	643.9	341.7	309.0	32.63	10.471	
11,000.0	10,898.1	10,892.4	10,802.4	17.3	15.5	-109.37	107.2	644.1	361.7	328.3	33.37	10.839	
11,100.0	10,998.1	10,945.1	10,840.7	17.3	15.5	-114.78	71.1	644.4	394.9	360.3	34.57	11.423	
11,200.0	11,098.1	10,987.8	10,868.7	17.4	15.5	-119.25	38.9	644.6	441.0	405.0	36.08	12.223	
11,300.0	11,198.1	11,025.0	10,890.6	17.4	15.6	-123.09	8.9	644.8	498.2	460.6	37.61	13.248	
11,400.0	11,298.1	11,050.0	10,904.0	17.5	15.6	-125.61	-12.2	644.9	564.3	525.1	39.14	14.417	
11,500.0	11,398.1	11,075.0	10,916.3	17.6	15.6	-128.06	-34.0	645.0	637.0	596.6	40.43	15.757	
11,600.0	11,498.1	11,100.0	10,927.5	17.6	15.7	-130.41	-56.4	645.2	715.0	673.5	41.51	17.223	
11,700.0	11,598.1	11,112.5	10,932.6	17.7	15.7	-131.56	-67.8	645.3	796.9	754.3	42.58	18.715	
11,800.0	11,698.1	11,125.0	10,937.4	17.8	15.7	-132.67	-79.3	645.3	881.8	838.3	43.50	20.272	
11,900.0	11,798.1	11,139.9	10,942.8	17.8	15.7	-133.96	-93.2	645.4	969.0	924.8	44.28	21.882	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	-90.38	-0.4	-60.0	60.0				
100.0	100.0	100.0	100.0	0.6	0.6	-90.38	-0.4	-60.0	60.0	58.4	1.58	37.905	
200.0	200.0	200.0	200.0	1.1	1.1	-90.38	-0.4	-60.0	60.0	57.5	2.52	23.818	
300.0	300.0	300.0	300.0	1.4	1.4	-90.38	-0.4	-60.0	60.0	56.9	3.14	19.080	
400.0	400.0	400.0	400.0	1.7	1.7	-90.38	-0.4	-60.0	60.0	56.4	3.65	16.443	
500.0	500.0	500.0	500.0	1.9	1.9	-90.38	-0.4	-60.0	60.0	55.9	4.08	14.693	
600.0	600.0	600.0	600.0	2.1	2.1	-90.38	-0.4	-60.0	60.0	55.5	4.47	13.420	
700.0	700.0	700.0	700.0	2.3	2.3	-90.38	-0.4	-60.0	60.0	55.2	4.82	12.438	
800.0	800.0	800.0	800.0	2.5	2.5	-90.38	-0.4	-60.0	60.0	54.9	5.15	11.650	
900.0	900.0	900.0	900.0	2.7	2.7	-90.38	-0.4	-60.0	60.0	54.5	5.46	10.998	
1,000.0	1,000.0	1,000.0	1,000.0	2.9	2.9	-90.38	-0.4	-60.0	60.0	54.3	5.74	10.448	
1,100.0	1,100.0	1,100.0	1,100.0	3.1	3.1	-90.38	-0.4	-60.0	60.0	54.0	6.02	9.974	
1,200.0	1,200.0	1,200.0	1,200.0	3.2	3.2	-90.38	-0.4	-60.0	60.0	53.7	6.28	9.562	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-90.38	-0.4	-60.0	60.0	53.5	6.52	9.197	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-90.38	-0.4	-60.0	60.0	53.2	6.76	8.873	
1,500.0	1,500.0	1,500.0	1,500.0	3.7	3.7	-90.38	-0.4	-60.0	60.0	53.0	6.99	8.581 CC, ES	
1,600.0	1,600.0	1,600.4	1,600.4	3.8	3.9	-166.22	1.3	-59.7	61.4	54.0	7.35	8.348	
1,700.0	1,699.8	1,700.6	1,700.4	4.0	4.2	-162.77	6.5	-58.6	65.6	57.7	7.88	8.325 SF	
1,800.0	1,799.5	1,800.3	1,799.8	4.3	4.5	-157.94	15.0	-56.9	73.1	64.7	8.37	8.730	
1,900.0	1,898.7	1,899.4	1,898.1	4.6	4.8	-152.67	26.8	-54.5	84.2	75.4	8.84	9.531	
2,000.0	1,997.5	1,997.9	1,995.5	4.8	4.9	-147.90	41.5	-51.5	99.2	90.0	9.19	10.799	
2,100.0	2,095.6	2,096.1	2,092.5	5.1	5.1	-145.07	56.6	-48.5	117.5	107.9	9.61	12.229	
2,125.0	2,120.0	2,120.5	2,116.6	5.1	5.1	-144.63	60.3	-47.7	122.6	112.9	9.67	12.672	
2,200.0	2,193.3	2,193.9	2,189.1	5.2	5.3	-143.73	71.6	-45.4	138.0	128.1	9.90	13.935	
2,300.0	2,290.9	2,291.8	2,285.7	5.4	5.4	-142.80	86.6	-42.4	158.6	148.4	10.25	15.475	
2,400.0	2,388.5	2,389.6	2,382.3	5.6	5.6	-142.09	101.6	-39.4	179.3	168.7	10.60	16.919	
2,500.0	2,486.2	2,487.4	2,478.9	5.8	5.8	-141.52	116.6	-36.3	200.0	189.0	10.94	18.273	
2,600.0	2,583.8	2,585.2	2,575.6	6.0	6.0	-141.06	131.6	-33.3	220.6	209.3	11.29	19.547	
2,700.0	2,681.4	2,683.2	2,672.3	6.2	6.1	-140.68	146.6	-30.3	241.3	229.7	11.58	20.832	
2,800.0	2,779.1	2,782.2	2,770.2	6.4	6.3	-140.59	160.7	-27.4	261.8	249.8	11.92	21.966	
2,900.0	2,876.7	2,881.3	2,868.5	6.5	6.4	-140.86	173.1	-24.9	281.8	269.5	12.26	22.978	
3,000.0	2,974.3	2,980.5	2,967.1	6.7	6.6	-141.42	184.0	-22.7	301.4	288.8	12.61	23.908	
3,100.0	3,071.9	3,079.7	3,065.9	6.9	6.8	-142.21	193.1	-20.8	320.7	307.7	12.95	24.766	
3,200.0	3,169.6	3,179.0	3,164.9	7.1	7.0	-143.20	200.6	-19.3	339.7	326.4	13.29	25.563	
3,300.0	3,267.2	3,278.1	3,263.9	7.3	7.2	-144.36	206.3	-18.2	358.4	344.8	13.62	26.309	
3,400.0	3,364.8	3,377.1	3,362.8	7.5	7.3	-145.66	210.4	-17.3	377.0	363.1	13.96	27.012	
3,500.0	3,462.5	3,476.0	3,461.6	7.7	7.5	-147.08	212.9	-16.9	395.5	381.2	14.29	27.681	
3,600.0	3,560.1	3,574.5	3,560.1	7.9	7.6	-148.61	213.6	-16.7	414.1	399.5	14.59	28.384	
3,700.0	3,657.7	3,672.1	3,657.7	8.2	7.7	-150.09	213.6	-16.7	432.8	417.9	14.90	29.052	
3,800.0	3,755.4	3,769.8	3,755.4	8.4	7.8	-151.45	213.6	-16.7	451.8	436.6	15.23	29.669	
3,900.0	3,853.0	3,867.4	3,853.0	8.6	7.9	-152.70	213.6	-16.7	471.0	455.5	15.56	30.273	
4,000.0	3,950.6	3,965.0	3,950.6	8.8	8.0	-153.86	213.6	-16.7	490.4	474.6	15.89	30.864	
4,100.0	4,048.2	4,062.6	4,048.2	9.0	8.1	-154.92	213.6	-16.7	510.1	493.8	16.22	31.440	
4,200.0	4,145.9	4,160.3	4,145.9	9.2	8.2	-155.91	213.6	-16.7	529.8	513.3	16.56	32.003	
4,300.0	4,243.5	4,257.9	4,243.5	9.4	8.3	-156.83	213.6	-16.7	549.7	532.8	16.89	32.552	
4,400.0	4,341.1	4,355.5	4,341.1	9.6	8.4	-157.68	213.6	-16.7	569.7	552.5	17.22	33.087	
4,500.0	4,438.8	4,453.2	4,438.8	9.8	8.5	-158.48	213.6	-16.7	589.9	572.3	17.55	33.608	
4,600.0	4,536.4	4,550.8	4,536.4	10.0	8.6	-159.22	213.6	-16.7	610.1	592.3	17.88	34.116	
4,700.0	4,634.0	4,648.4	4,634.0	10.2	8.7	-159.92	213.6	-16.7	630.5	612.3	18.22	34.610	
4,800.0	4,731.7	4,746.1	4,731.7	10.4	8.8	-160.57	213.6	-16.7	650.9	632.4	18.55	35.092	
4,900.0	4,829.3	4,843.7	4,829.3	10.7	8.9	-161.18	213.6	-16.7	671.4	652.5	18.88	35.561	

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 701H
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 701H	**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
5,000.0	4,926.9	4,941.3	4,926.9	10.9	9.1	-161.76	213.6	-16.7	692.0	672.8	19.21	36.017	
5,100.0	5,024.5	5,038.9	5,024.5	11.1	9.2	-162.30	213.6	-16.7	712.6	693.1	19.54	36.461	
5,200.0	5,122.2	5,136.6	5,122.2	11.3	9.3	-162.82	213.6	-16.7	733.3	713.4	19.88	36.894	
5,300.0	5,219.8	5,234.2	5,219.8	11.5	9.4	-163.30	213.6	-16.7	754.0	733.8	20.21	37.315	
5,400.0	5,317.4	5,331.8	5,317.4	11.7	9.5	-163.76	213.6	-16.7	774.8	754.3	20.54	37.726	
5,500.0	5,415.1	5,429.5	5,415.1	11.9	9.6	-164.20	213.6	-16.7	795.7	774.8	20.87	38.125	
5,600.0	5,512.7	5,527.1	5,512.7	12.1	9.7	-164.61	213.6	-16.7	816.6	795.4	21.20	38.515	
5,700.0	5,610.3	5,624.7	5,610.3	12.4	9.8	-165.00	213.6	-16.7	837.5	815.9	21.53	38.894	
5,797.0	5,705.0	5,719.4	5,705.0	12.6	9.9	-165.36	213.6	-16.7	857.8	835.9	21.85	39.257	
5,800.0	5,708.0	5,722.4	5,708.0	12.6	9.9	-165.38	213.6	-16.7	858.4	836.6	21.86	39.271	
5,900.0	5,805.8	5,820.2	5,805.8	12.9	10.0	-165.77	213.6	-16.7	878.5	856.2	22.33	39.336	
6,000.0	5,904.0	5,918.4	5,904.0	13.1	10.1	-166.11	213.6	-16.7	897.0	874.4	22.66	39.594	
6,100.0	6,002.4	6,016.8	6,002.4	13.3	10.2	-166.41	213.6	-16.7	913.8	890.9	22.97	39.780	
6,200.0	6,101.2	6,115.6	6,101.2	13.5	10.3	-166.67	213.6	-16.7	929.0	905.7	23.28	39.898	
6,300.0	6,200.2	6,214.6	6,200.2	13.7	10.4	-166.90	213.6	-16.7	942.5	918.9	23.59	39.951	
6,400.0	6,299.5	6,313.9	6,299.5	13.9	10.5	-167.09	213.6	-16.7	954.3	930.5	23.89	39.943	
6,500.0	6,399.0	6,413.4	6,399.0	14.1	10.6	-167.25	213.6	-16.7	964.5	940.3	24.19	39.876	
6,600.0	6,498.6	6,513.0	6,498.6	14.3	10.7	-167.38	213.6	-16.7	972.9	948.5	24.47	39.755	
6,700.0	6,598.3	6,612.7	6,598.3	14.4	10.7	-167.48	213.6	-16.7	979.7	954.9	24.75	39.581	
6,800.0	6,698.2	6,712.6	6,698.2	14.6	10.8	-167.56	213.6	-16.7	984.8	959.7	25.02	39.359	
6,900.0	6,798.2	6,812.6	6,798.2	14.8	10.9	-167.61	213.6	-16.7	988.1	962.8	25.28	39.094	
7,000.0	6,898.1	6,912.5	6,898.1	14.9	11.0	-167.64	213.6	-16.7	989.8	964.2	25.51	38.795	
7,046.9	6,945.0	6,959.4	6,945.0	14.9	11.1	-90.54	213.6	-16.7	989.9	964.4	25.58	38.696	
7,100.0	6,998.1	7,012.5	6,998.1	14.9	11.1	-90.54	213.6	-16.7	989.9	964.3	25.64	38.606	
7,200.0	7,098.1	7,112.5	7,098.1	15.0	11.2	-90.54	213.6	-16.7	989.9	964.2	25.79	38.389	
7,300.0	7,198.1	7,212.5	7,198.1	15.1	11.3	-90.54	213.6	-16.7	989.9	964.0	25.93	38.175	
7,400.0	7,298.1	7,312.5	7,298.1	15.1	11.4	-90.54	213.6	-16.7	989.9	963.9	26.08	37.962	
7,500.0	7,398.1	7,412.5	7,398.1	15.2	11.5	-90.54	213.6	-16.7	989.9	963.7	26.22	37.752	
7,600.0	7,498.1	7,512.5	7,498.1	15.2	11.6	-90.54	213.6	-16.7	989.9	963.6	26.37	37.544	
7,700.0	7,598.1	7,612.5	7,598.1	15.3	11.7	-90.54	213.6	-16.7	989.9	963.4	26.51	37.337	
7,800.0	7,698.1	7,712.5	7,698.1	15.3	11.8	-90.54	213.6	-16.7	989.9	963.3	26.66	37.133	
7,900.0	7,798.1	7,812.5	7,798.1	15.4	11.9	-90.54	213.6	-16.7	989.9	963.1	26.81	36.931	
8,000.0	7,898.1	7,912.5	7,898.1	15.4	12.0	-90.54	213.6	-16.7	989.9	963.0	26.95	36.730	
8,100.0	7,998.1	8,012.5	7,998.1	15.5	12.1	-90.54	213.6	-16.7	989.9	962.8	27.10	36.532	
8,200.0	8,098.1	8,112.5	8,098.1	15.6	12.2	-90.54	213.6	-16.7	989.9	962.7	27.24	36.335	
8,300.0	8,198.1	8,212.5	8,198.1	15.6	12.3	-90.54	213.6	-16.7	989.9	962.6	27.39	36.141	
8,400.0	8,298.1	8,312.5	8,298.1	15.7	12.4	-90.54	213.6	-16.7	989.9	962.4	27.54	35.948	
8,500.0	8,398.1	8,412.5	8,398.1	15.7	12.5	-90.54	213.6	-16.7	989.9	962.3	27.69	35.757	
8,600.0	8,498.1	8,512.5	8,498.1	15.8	12.6	-90.54	213.6	-16.7	989.9	962.1	27.83	35.568	
8,700.0	8,598.1	8,612.5	8,598.1	15.9	12.7	-90.54	213.6	-16.7	989.9	962.0	27.98	35.381	
8,800.0	8,698.1	8,712.5	8,698.1	15.9	12.8	-90.54	213.6	-16.7	989.9	961.8	28.13	35.195	
8,900.0	8,798.1	8,812.5	8,798.1	16.0	12.9	-90.54	213.6	-16.7	989.9	961.7	28.27	35.011	
9,000.0	8,898.1	8,912.5	8,898.1	16.0	13.0	-90.54	213.6	-16.7	989.9	961.5	28.42	34.829	
9,100.0	8,998.1	9,012.5	8,998.1	16.1	13.1	-90.54	213.6	-16.7	989.9	961.4	28.57	34.649	
9,200.0	9,098.1	9,112.5	9,098.1	16.2	13.1	-90.54	213.6	-16.7	989.9	961.2	28.72	34.470	
9,300.0	9,198.1	9,212.5	9,198.1	16.2	13.2	-90.54	213.6	-16.7	989.9	961.1	28.87	34.293	
9,400.0	9,298.1	9,312.5	9,298.1	16.3	13.3	-90.54	213.6	-16.7	989.9	960.9	29.02	34.118	
9,500.0	9,398.1	9,412.5	9,398.1	16.3	13.4	-90.54	213.6	-16.7	989.9	960.8	29.16	33.946	
9,506.6	9,404.8	9,419.2	9,404.8	16.3	13.4	-90.54	213.6	-16.7	989.9	960.8	29.17	33.935	
9,600.0	9,498.1	9,512.4	9,497.9	16.4	13.5	-90.58	212.9	-16.7	989.9	960.7	29.29	33.799	
9,700.0	9,598.1	9,609.1	9,593.3	16.5	13.6	-91.44	198.1	-16.6	990.1	960.7	29.38	33.705	

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 701H
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 701H	**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	9,698.1	9,696.6	9,675.5	16.5	13.6	-93.16	168.3	-16.4	991.4	961.9	29.47	33.636	
9,900.0	9,798.1	9,771.4	9,740.4	16.6	13.7	-95.29	131.4	-16.2	995.3	965.7	29.59	33.637	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	-90.52	-0.9	-99.9	99.9				
100.0	100.0	99.0	99.0	0.6	0.6	-90.52	-0.9	-99.9	99.9	98.3	1.58	63.333	
200.0	200.0	199.0	199.0	1.1	1.0	-90.52	-0.9	-99.9	99.9	97.4	2.51	39.731	
300.0	300.0	299.0	299.0	1.4	1.4	-90.52	-0.9	-99.9	99.9	96.8	3.14	31.801	
400.0	400.0	399.0	399.0	1.7	1.7	-90.52	-0.9	-99.9	99.9	96.3	3.65	27.397	
500.0	500.0	499.0	499.0	1.9	1.9	-90.52	-0.9	-99.9	99.9	95.8	4.08	24.478	
600.0	600.0	599.0	599.0	2.1	2.1	-90.52	-0.9	-99.9	99.9	95.4	4.47	22.355	
700.0	700.0	699.0	699.0	2.3	2.3	-90.52	-0.9	-99.9	99.9	95.1	4.82	20.717	
800.0	800.0	799.0	799.0	2.5	2.5	-90.52	-0.9	-99.9	99.9	94.8	5.15	19.403	
900.0	900.0	899.0	899.0	2.7	2.7	-90.52	-0.9	-99.9	99.9	94.4	5.45	18.317	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.52	-0.9	-99.9	99.9	94.2	5.74	17.400	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.52	-0.9	-99.9	99.9	93.9	6.01	16.611	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.52	-0.9	-99.9	99.9	93.6	6.27	15.924	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.52	-0.9	-99.9	99.9	93.4	6.52	15.317	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.52	-0.9	-99.9	99.9	93.1	6.76	14.776	
1,500.0	1,500.0	1,499.0	1,499.0	3.7	3.7	-90.52	-0.9	-99.9	99.9	92.9	6.99	14.289	CC, ES
1,600.0	1,600.0	1,595.8	1,595.7	3.8	3.8	-167.49	-0.4	-101.4	103.2	95.7	7.46	13.830	SF
1,700.0	1,699.8	1,691.9	1,691.7	4.0	4.0	-167.15	1.3	-105.9	113.0	104.9	8.08	13.975	
1,800.0	1,799.5	1,786.8	1,786.3	4.3	4.3	-166.69	4.0	-113.4	129.3	120.6	8.67	14.916	
1,900.0	1,898.7	1,879.8	1,878.7	4.6	4.5	-166.20	7.6	-123.6	151.9	142.7	9.21	16.497	
2,000.0	1,997.5	1,971.8	1,969.7	4.8	4.7	-165.72	12.2	-136.3	180.7	171.1	9.60	18.830	
2,100.0	2,095.6	2,066.3	2,063.0	5.1	4.8	-165.46	17.2	-150.2	213.6	203.6	10.01	21.339	
2,125.0	2,120.0	2,089.6	2,086.1	5.1	4.9	-165.44	18.5	-153.6	222.3	212.2	10.08	22.058	
2,200.0	2,193.3	2,159.9	2,155.4	5.2	5.0	-165.51	22.2	-164.0	248.7	238.4	10.31	24.128	
2,300.0	2,290.9	2,253.5	2,247.9	5.4	5.2	-165.58	27.2	-177.7	284.0	273.3	10.65	26.656	
2,400.0	2,388.5	2,347.0	2,340.3	5.6	5.3	-165.64	32.1	-191.5	319.2	308.2	11.00	29.019	
2,500.0	2,486.2	2,440.6	2,432.7	5.8	5.5	-165.69	37.1	-205.3	354.5	343.2	11.35	31.230	
2,600.0	2,583.8	2,534.2	2,525.2	6.0	5.7	-165.73	42.1	-219.0	389.8	378.1	11.70	33.303	
2,700.0	2,681.4	2,627.8	2,617.6	6.2	5.9	-165.76	47.0	-232.8	425.0	413.0	12.06	35.247	
2,800.0	2,779.1	2,721.4	2,710.0	6.4	6.0	-165.79	52.0	-246.6	460.3	447.8	12.41	37.074	
2,900.0	2,876.7	2,814.9	2,802.4	6.5	6.2	-165.81	57.0	-260.4	495.5	482.7	12.77	38.794	
3,000.0	2,974.3	2,908.5	2,894.9	6.7	6.4	-165.83	61.9	-274.1	530.8	517.6	13.13	40.415	
3,100.0	3,071.9	3,002.1	2,987.3	6.9	6.6	-165.85	66.9	-287.9	566.0	552.5	13.49	41.944	
3,200.0	3,169.6	3,095.7	3,079.7	7.1	6.7	-165.86	71.9	-301.7	601.3	587.4	13.86	43.388	
3,300.0	3,267.2	3,189.3	3,172.1	7.3	6.9	-165.88	76.8	-315.4	636.5	622.3	14.22	44.755	
3,400.0	3,364.8	3,282.8	3,264.6	7.5	7.1	-165.89	81.8	-329.2	671.8	657.2	14.59	46.049	
3,500.0	3,462.5	3,376.4	3,357.0	7.7	7.3	-165.90	86.8	-343.0	707.0	692.1	14.96	47.276	
3,600.0	3,560.1	3,470.0	3,449.4	7.9	7.5	-165.91	91.7	-356.8	742.3	727.0	15.32	48.440	
3,700.0	3,657.7	3,563.6	3,541.9	8.2	7.7	-165.92	96.7	-370.5	777.5	761.8	15.69	49.547	
3,800.0	3,755.4	3,657.2	3,634.3	8.4	7.8	-165.93	101.7	-384.3	812.8	796.7	16.06	50.599	
3,900.0	3,853.0	3,750.7	3,726.7	8.6	8.0	-165.94	106.6	-398.1	848.0	831.6	16.43	51.601	
4,000.0	3,950.6	3,844.3	3,819.1	8.8	8.2	-165.94	111.6	-411.8	883.3	866.5	16.81	52.556	
4,100.0	4,048.2	3,937.9	3,911.6	9.0	8.4	-165.95	116.6	-425.6	918.6	901.4	17.18	53.467	
4,200.0	4,145.9	4,031.5	4,004.0	9.2	8.6	-165.96	121.5	-439.4	953.8	936.3	17.55	54.337	
4,300.0	4,243.5	4,125.1	4,096.4	9.4	8.8	-165.96	126.5	-453.2	989.1	971.1	17.93	55.168	

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 701H
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 701H	**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 702H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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	-90.57	-0.4	-39.9	39.9				
100.0	100.0	100.0	100.0	0.6	0.6	-90.57	-0.4	-39.9	39.9	38.3	1.58	25.208	
200.0	200.0	200.0	200.0	1.1	1.1	-90.57	-0.4	-39.9	39.9	37.4	2.52	15.839	
300.0	300.0	300.0	300.0	1.4	1.4	-90.57	-0.4	-39.9	39.9	36.8	3.14	12.689	
400.0	400.0	400.0	400.0	1.7	1.7	-90.57	-0.4	-39.9	39.9	36.3	3.65	10.935	
500.0	500.0	500.0	500.0	1.9	1.9	-90.57	-0.4	-39.9	39.9	35.8	4.08	9.771	
600.0	600.0	600.0	600.0	2.1	2.1	-90.57	-0.4	-39.9	39.9	35.4	4.47	8.925	
700.0	700.0	700.0	700.0	2.3	2.3	-90.57	-0.4	-39.9	39.9	35.1	4.82	8.271	
800.0	800.0	800.0	800.0	2.5	2.5	-90.57	-0.4	-39.9	39.9	34.8	5.15	7.747	
900.0	900.0	900.0	900.0	2.7	2.7	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-0.4	-39.9	39.9	33.6	6.28	6.359	
1,300.0	1,300.0	1,300.9	1,300.9	3.4	3.5	-88.58	1.0	-38.8	38.8	32.2	6.59	5.889	
1,400.0	1,400.0	1,401.5	1,401.3	3.5	3.8	-81.91	5.0	-35.3	35.7	28.8	6.97	5.126	
1,500.0	1,500.0	1,501.6	1,501.1	3.7	4.1	-68.41	11.8	-29.7	32.0	24.6	7.34	4.356	
1,561.0	1,561.0	1,562.4	1,561.4	3.8	4.3	-133.76	17.1	-25.2	30.9	23.3	7.65	4.042	CC, ES
1,600.0	1,600.0	1,601.2	1,599.9	3.8	4.4	-125.80	21.1	-21.9	31.4	23.5	7.85	3.997	
1,700.0	1,699.8	1,700.7	1,698.4	4.0	4.6	-110.18	31.7	-13.0	36.1	27.6	8.42	4.282	
1,800.0	1,799.5	1,801.5	1,798.2	4.3	4.8	-101.83	41.5	-2.4	42.0	33.0	9.01	4.659	
1,900.0	1,898.7	1,902.0	1,897.4	4.6	4.9	-97.48	49.7	10.8	46.5	37.2	9.32	4.991	
2,000.0	1,997.5	2,001.8	1,996.1	4.8	5.1	-97.50	57.7	24.2	51.3	41.6	9.67	5.306	
2,100.0	2,095.6	2,101.6	2,094.7	5.1	5.3	-100.99	65.6	37.7	56.7	46.7	9.99	5.676	
2,125.0	2,120.0	2,126.5	2,119.2	5.1	5.3	-102.28	67.6	41.0	58.2	48.1	10.03	5.797	
2,200.0	2,193.3	2,201.3	2,193.1	5.2	5.5	-106.14	73.5	51.1	62.9	52.6	10.23	6.144	
2,300.0	2,290.9	2,301.0	2,291.5	5.4	5.6	-110.45	81.5	64.5	69.5	59.0	10.55	6.587	
2,400.0	2,388.5	2,400.6	2,389.9	5.6	5.8	-113.99	89.4	78.0	76.5	65.6	10.89	7.028	
2,500.0	2,486.2	2,500.3	2,488.4	5.8	6.0	-116.93	97.3	91.4	83.7	72.5	11.22	7.459	
2,600.0	2,583.8	2,599.9	2,586.8	6.0	6.2	-119.40	105.2	104.8	91.1	79.6	11.57	7.877	
2,700.0	2,681.4	2,699.6	2,685.2	6.2	6.4	-121.50	113.1	118.3	98.7	86.8	11.92	8.280	
2,800.0	2,779.1	2,799.2	2,783.6	6.4	6.6	-123.30	121.1	131.7	106.3	94.1	12.27	8.668	
2,900.0	2,876.7	2,898.9	2,882.1	6.5	6.8	-124.85	129.0	145.1	114.1	101.5	12.62	9.040	
3,000.0	2,974.3	2,998.5	2,980.5	6.7	7.0	-126.21	136.9	158.6	121.9	108.9	12.97	9.396	
3,100.0	3,071.9	3,098.2	3,078.9	6.9	7.2	-127.40	144.8	172.0	129.8	116.5	13.33	9.737	
3,200.0	3,169.6	3,197.9	3,177.4	7.1	7.4	-128.45	152.8	185.4	137.7	124.0	13.69	10.063	
3,300.0	3,267.2	3,297.5	3,275.8	7.3	7.6	-129.39	160.7	198.8	145.7	131.7	14.04	10.375	
3,400.0	3,364.8	3,397.2	3,374.2	7.5	7.8	-130.23	168.6	212.3	153.7	139.3	14.40	10.674	
3,500.0	3,462.5	3,496.8	3,472.6	7.7	8.0	-130.99	176.5	225.7	161.7	147.0	14.76	10.959	
3,600.0	3,560.1	3,595.9	3,570.5	7.9	8.1	-131.74	184.3	238.9	169.9	154.8	15.06	11.280	
3,700.0	3,657.7	3,694.2	3,667.8	8.2	8.3	-132.84	191.3	250.7	178.7	163.3	15.42	11.589	
3,800.0	3,755.4	3,792.2	3,765.1	8.4	8.5	-134.30	197.4	261.1	188.3	172.6	15.79	11.931	
3,900.0	3,853.0	3,889.9	3,862.3	8.6	8.7	-136.04	202.6	269.9	198.9	182.8	16.16	12.311	
4,000.0	3,950.6	3,987.3	3,959.3	8.8	8.8	-137.98	207.0	277.4	210.5	194.0	16.53	12.732	
4,100.0	4,048.2	4,084.2	4,055.9	9.0	9.0	-140.08	210.5	283.4	223.2	206.3	16.91	13.198	
4,200.0	4,145.9	4,180.6	4,152.2	9.2	9.2	-142.28	213.2	287.9	237.2	219.9	17.30	13.713	
4,300.0	4,243.5	4,276.6	4,248.1	9.4	9.3	-144.51	215.1	291.1	252.5	234.8	17.68	14.280	
4,400.0	4,341.1	4,371.9	4,343.4	9.6	9.5	-146.75	216.1	292.9	269.1	251.1	18.06	14.903	
4,500.0	4,438.8	4,467.3	4,438.8	9.8	9.6	-148.97	216.4	293.3	287.3	268.9	18.39	15.616	
4,600.0	4,536.4	4,564.9	4,536.4	10.0	9.6	-151.05	216.4	293.3	306.1	287.4	18.74	16.333	
4,700.0	4,634.0	4,662.5	4,634.0	10.2	9.7	-152.89	216.4	293.3	325.3	306.2	19.10	17.035	
4,800.0	4,731.7	4,760.2	4,731.7	10.4	9.8	-154.52	216.4	293.3	344.8	325.4	19.45	17.730	

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 701H
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 701H	**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 702H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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
4,900.0	4,829.3	4,857.8	4,829.3	10.7	9.9	-155.98	216.4	293.3	364.5	344.8	19.79	18.418	
5,000.0	4,926.9	4,955.4	4,926.9	10.9	10.0	-157.29	216.4	293.3	384.5	364.4	20.14	19.096	
5,100.0	5,024.5	5,053.0	5,024.5	11.1	10.1	-158.47	216.4	293.3	404.6	384.1	20.47	19.763	
5,200.0	5,122.2	5,150.7	5,122.2	11.3	10.2	-159.53	216.4	293.3	424.9	404.1	20.81	20.418	
5,300.0	5,219.8	5,248.3	5,219.8	11.5	10.2	-160.50	216.4	293.3	445.3	424.1	21.14	21.062	
5,400.0	5,317.4	5,345.9	5,317.4	11.7	10.3	-161.39	216.4	293.3	465.8	444.3	21.47	21.693	
5,500.0	5,415.1	5,443.6	5,415.1	11.9	10.4	-162.20	216.4	293.3	486.4	464.6	21.80	22.311	
5,600.0	5,512.7	5,541.2	5,512.7	12.1	10.5	-162.95	216.4	293.3	507.1	485.0	22.13	22.916	
5,700.0	5,610.3	5,638.8	5,610.3	12.4	10.6	-163.64	216.4	293.3	527.8	505.4	22.45	23.508	
5,797.0	5,705.0	5,733.5	5,705.0	12.6	10.7	-164.25	216.4	293.3	548.1	525.3	22.77	24.073	
5,800.0	5,708.0	5,736.5	5,708.0	12.6	10.7	-164.27	216.4	293.3	548.7	525.9	22.77	24.092	
5,900.0	5,805.8	5,834.3	5,805.8	12.9	10.8	-164.89	216.4	293.3	568.7	545.5	23.24	24.474	
6,000.0	5,904.0	5,932.4	5,904.0	13.1	10.8	-165.42	216.4	293.3	587.1	563.6	23.55	24.931	
6,100.0	6,002.4	6,030.9	6,002.4	13.3	10.9	-165.88	216.4	293.3	603.9	580.1	23.86	25.313	
6,200.0	6,101.2	6,129.7	6,101.2	13.5	11.0	-166.27	216.4	293.3	619.0	594.9	24.16	25.623	
6,300.0	6,200.2	6,228.7	6,200.2	13.7	11.1	-166.60	216.4	293.3	632.5	608.1	24.46	25.864	
6,400.0	6,299.5	6,328.0	6,299.5	13.9	11.2	-166.87	216.4	293.3	644.3	619.6	24.75	26.038	
6,500.0	6,399.0	6,427.5	6,399.0	14.1	11.3	-167.10	216.4	293.3	654.5	629.5	25.03	26.149	
6,600.0	6,498.6	6,527.1	6,498.6	14.3	11.4	-167.29	216.4	293.3	662.9	637.6	25.30	26.198	
6,700.0	6,598.3	6,626.8	6,598.3	14.4	11.5	-167.43	216.4	293.3	669.7	644.1	25.57	26.190	
6,800.0	6,698.2	6,726.7	6,698.2	14.6	11.5	-167.54	216.4	293.3	674.7	648.9	25.83	26.125	
6,900.0	6,798.2	6,826.6	6,798.2	14.8	11.6	-167.61	216.4	293.3	678.1	652.0	26.07	26.010	
7,000.0	6,898.1	6,926.6	6,898.1	14.9	11.7	-167.64	216.4	293.3	679.7	653.4	26.30	25.850	
7,046.9	6,945.0	6,973.5	6,945.0	14.9	11.8	-90.55	216.4	293.3	679.9	653.6	26.36	25.792	
7,100.0	6,998.1	7,026.6	6,998.1	14.9	11.8	-90.55	216.4	293.3	679.9	653.5	26.42	25.738	
7,200.0	7,098.1	7,126.6	7,098.1	15.0	11.9	-90.55	216.4	293.3	679.9	653.4	26.55	25.606	
7,300.0	7,198.1	7,226.6	7,198.1	15.1	12.0	-90.55	216.4	293.3	679.9	653.2	26.69	25.476	
7,400.0	7,298.1	7,326.6	7,298.1	15.1	12.1	-90.55	216.4	293.3	679.9	653.1	26.83	25.346	
7,500.0	7,398.1	7,426.6	7,398.1	15.2	12.1	-90.55	216.4	293.3	679.9	653.0	26.96	25.218	
7,600.0	7,498.1	7,526.6	7,498.1	15.2	12.2	-90.55	216.4	293.3	679.9	652.8	27.10	25.090	
7,700.0	7,598.1	7,626.6	7,598.1	15.3	12.3	-90.55	216.4	293.3	679.9	652.7	27.24	24.964	
7,800.0	7,698.1	7,726.6	7,698.1	15.3	12.4	-90.55	216.4	293.3	679.9	652.6	27.37	24.839	
7,900.0	7,798.1	7,826.6	7,798.1	15.4	12.5	-90.55	216.4	293.3	679.9	652.4	27.51	24.715	
8,000.0	7,898.1	7,926.6	7,898.1	15.4	12.6	-90.55	216.4	293.3	679.9	652.3	27.65	24.591	
8,100.0	7,998.1	8,026.6	7,998.1	15.5	12.7	-90.55	216.4	293.3	679.9	652.1	27.79	24.469	
8,200.0	8,098.1	8,126.6	8,098.1	15.6	12.8	-90.55	216.4	293.3	679.9	652.0	27.93	24.348	
8,300.0	8,198.1	8,226.6	8,198.1	15.6	12.8	-90.55	216.4	293.3	679.9	651.9	28.06	24.227	
8,400.0	8,298.1	8,326.6	8,298.1	15.7	12.9	-90.55	216.4	293.3	679.9	651.7	28.20	24.108	
8,500.0	8,398.1	8,426.6	8,398.1	15.7	13.0	-90.55	216.4	293.3	679.9	651.6	28.34	23.990	
8,600.0	8,498.1	8,526.6	8,498.1	15.8	13.1	-90.55	216.4	293.3	679.9	651.4	28.48	23.872	
8,700.0	8,598.1	8,626.6	8,598.1	15.9	13.2	-90.55	216.4	293.3	679.9	651.3	28.62	23.756	
8,800.0	8,698.1	8,726.6	8,698.1	15.9	13.3	-90.55	216.4	293.3	679.9	651.2	28.76	23.640	
8,900.0	8,798.1	8,826.6	8,798.1	16.0	13.4	-90.55	216.4	293.3	679.9	651.0	28.90	23.526	
9,000.0	8,898.1	8,926.6	8,898.1	16.0	13.4	-90.55	216.4	293.3	679.9	650.9	29.04	23.412	
9,100.0	8,998.1	9,026.6	8,998.1	16.1	13.5	-90.55	216.4	293.3	679.9	650.7	29.18	23.299	
9,200.0	9,098.1	9,126.6	9,098.1	16.2	13.6	-90.55	216.4	293.3	679.9	650.6	29.32	23.188	
9,300.0	9,198.1	9,226.6	9,198.1	16.2	13.7	-90.55	216.4	293.3	679.9	650.5	29.46	23.077	
9,400.0	9,298.1	9,326.6	9,298.1	16.3	13.8	-90.55	216.4	293.3	679.9	650.3	29.60	22.967	
9,500.0	9,398.1	9,426.6	9,398.1	16.3	13.9	-90.55	216.4	293.3	679.9	650.2	29.75	22.858	
9,600.0	9,498.1	9,526.6	9,498.1	16.4	14.0	-90.55	216.4	293.3	679.9	650.0	29.89	22.749	
9,700.0	9,598.1	9,626.6	9,598.1	16.5	14.0	-90.55	216.4	293.3	679.9	649.9	30.03	22.642	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 702H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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	9,698.1	9,726.6	9,698.1	16.5	14.1	-90.55	216.4	293.3	679.9	649.8	30.17	22.536	
9,900.0	9,798.1	9,826.6	9,798.1	16.6	14.2	-90.55	216.4	293.3	679.9	649.6	30.31	22.430	
10,000.0	9,898.1	9,926.6	9,898.1	16.6	14.3	-90.55	216.4	293.3	679.9	649.5	30.46	22.325	
10,100.0	9,998.1	10,026.6	9,998.1	16.7	14.4	-90.55	216.4	293.3	679.9	649.3	30.60	22.221	
10,200.0	10,098.1	10,126.6	10,098.1	16.8	14.5	-90.55	216.4	293.3	679.9	649.2	30.74	22.118	
10,300.0	10,198.1	10,226.6	10,198.1	16.8	14.6	-90.55	216.4	293.3	679.9	649.0	30.88	22.016	
10,400.0	10,298.1	10,326.6	10,298.1	16.9	14.6	-90.55	216.4	293.3	679.9	648.9	31.03	21.914	
10,500.0	10,398.1	10,426.6	10,398.1	16.9	14.7	-90.55	216.4	293.3	679.9	648.8	31.17	21.814	
10,600.0	10,498.1	10,526.6	10,498.1	17.0	14.8	-90.55	216.4	293.3	679.9	648.6	31.31	21.714	
10,700.0	10,598.1	10,626.6	10,598.1	17.1	14.9	-90.55	216.4	293.3	679.9	648.5	31.46	21.615	
10,800.0	10,698.1	10,726.6	10,698.1	17.1	15.0	-90.55	216.4	293.3	679.9	648.3	31.60	21.516	
10,900.0	10,798.1	10,826.6	10,798.1	17.2	15.1	-90.55	216.4	293.3	679.9	648.2	31.74	21.419	
11,000.0	10,898.1	10,926.6	10,898.1	17.3	15.2	-90.55	216.4	293.3	679.9	648.0	31.89	21.322	
11,100.0	10,998.1	11,026.6	10,998.1	17.3	15.2	-90.55	216.4	293.3	679.9	647.9	32.03	21.226	
11,200.0	11,098.1	11,126.6	11,098.1	17.4	15.3	-90.55	216.4	293.3	679.9	647.8	32.18	21.131	
11,300.0	11,198.1	11,226.6	11,198.1	17.4	15.4	-90.55	216.4	293.3	679.9	647.6	32.32	21.036	
11,400.0	11,298.1	11,326.6	11,298.1	17.5	15.5	-90.55	216.4	293.3	679.9	647.5	32.47	20.942	
11,500.0	11,398.1	11,426.6	11,398.1	17.6	15.6	-90.55	216.4	293.3	679.9	647.3	32.61	20.849	
11,600.0	11,498.1	11,526.6	11,498.1	17.6	15.7	-90.55	216.4	293.3	679.9	647.2	32.76	20.757	
11,700.0	11,598.1	11,626.6	11,598.1	17.7	15.7	-90.55	216.4	293.3	679.9	647.0	32.90	20.666	
11,800.0	11,698.1	11,726.6	11,698.1	17.8	15.8	-90.55	216.4	293.3	679.9	646.9	33.05	20.575	
11,900.0	11,798.1	11,826.6	11,798.1	17.8	15.9	-90.55	216.4	293.3	679.9	646.7	33.19	20.484	
12,000.0	11,898.1	11,926.6	11,898.1	17.9	16.0	-90.55	216.4	293.3	679.9	646.6	33.33	20.399	
12,001.1	11,899.2	11,927.7	11,899.2	17.9	16.0	-90.55	216.4	293.3	679.9	646.6	33.33	20.399	
12,028.4	11,926.5	11,955.0	11,926.5	17.9	16.0	-90.55	216.3	293.3	679.9	646.6	33.35	20.385	
12,050.0	11,948.1	11,976.5	11,948.0	17.9	16.0	89.79	215.5	293.3	679.9	646.6	33.37	20.378	
12,075.0	11,973.1	12,001.3	11,972.7	17.9	16.0	89.76	213.3	293.3	679.9	646.6	33.37	20.375	
12,100.0	11,997.9	12,026.2	11,997.3	17.9	16.0	89.72	209.9	293.3	679.9	646.6	33.37	20.374	
12,125.0	12,022.5	12,051.0	12,021.7	17.9	16.0	89.69	205.1	293.4	679.9	646.6	33.38	20.372	
12,150.0	12,046.8	12,075.8	12,045.7	17.9	16.1	89.66	199.1	293.4	679.9	646.6	33.38	20.371	
12,175.0	12,070.8	12,100.6	12,069.4	17.9	16.1	89.63	191.9	293.5	679.9	646.6	33.38	20.371	
12,200.0	12,094.5	12,125.3	12,092.7	18.0	16.1	89.60	183.5	293.5	679.9	646.6	33.38	20.371	
12,225.0	12,117.6	12,150.0	12,115.4	18.0	16.1	89.57	173.9	293.6	679.9	646.6	33.38	20.371	
12,250.0	12,140.3	12,174.8	12,137.8	18.0	16.1	89.54	163.1	293.6	680.0	646.6	33.38	20.370	
12,275.0	12,162.3	12,199.5	12,159.4	18.0	16.1	89.51	151.2	293.7	680.0	646.6	33.38	20.370	
12,300.0	12,183.7	12,224.2	12,180.4	18.0	16.1	89.49	138.2	293.8	680.0	646.6	33.38	20.368	
12,325.0	12,204.4	12,248.9	12,200.7	18.0	16.1	89.46	124.1	293.9	680.0	646.6	33.39	20.366	
12,350.0	12,224.4	12,273.5	12,220.2	18.0	16.2	89.44	109.1	294.0	680.0	646.6	33.39	20.363	
12,375.0	12,243.5	12,298.2	12,238.9	18.0	16.2	89.42	93.0	294.1	680.0	646.6	33.40	20.359	
12,400.0	12,261.7	12,322.8	12,256.7	18.1	16.2	89.40	76.0	294.2	680.0	646.6	33.41	20.352	
12,425.0	12,279.1	12,347.4	12,273.6	18.1	16.2	89.38	58.1	294.3	680.0	646.5	33.42	20.344	
12,450.0	12,295.4	12,372.1	12,289.6	18.1	16.2	89.37	39.4	294.5	680.0	646.5	33.44	20.334	
12,475.0	12,310.8	12,396.7	12,304.6	18.1	16.3	89.35	19.9	294.6	680.0	646.5	33.46	20.322	
12,500.0	12,325.1	12,421.3	12,318.6	18.2	16.3	89.34	-0.4	294.7	680.0	646.5	33.49	20.306	
12,525.0	12,338.3	12,445.9	12,331.4	18.2	16.3	89.33	-21.3	294.8	680.0	646.5	33.52	20.288	
12,550.0	12,350.4	12,470.4	12,343.2	18.2	16.3	89.32	-42.9	295.0	680.0	646.4	33.55	20.267	
12,575.0	12,361.3	12,495.0	12,353.9	18.3	16.3	89.31	-65.0	295.1	680.0	646.4	33.59	20.243	
12,600.0	12,371.1	12,519.6	12,363.4	18.3	16.4	89.31	-87.7	295.3	680.0	646.3	33.64	20.216	
12,625.0	12,379.6	12,544.2	12,371.7	18.3	16.4	89.31	-110.8	295.4	680.0	646.3	33.69	20.186	
12,650.0	12,386.8	12,568.8	12,378.9	18.4	16.4	89.30	-134.3	295.6	680.0	646.2	33.74	20.152	
12,675.0	12,392.8	12,593.3	12,384.8	18.4	16.4	89.30	-158.2	295.7	680.0	646.2	33.80	20.115	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 702H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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
12,700.0	12,397.6	12,617.9	12,389.5	18.4	16.5	89.31	-182.3	295.9	680.0	646.1	33.87	20.076	
12,725.0	12,401.0	12,642.5	12,392.9	18.5	16.5	89.31	-206.6	296.1	680.0	646.0	33.94	20.033	
12,750.0	12,403.2	12,667.1	12,395.1	18.5	16.5	89.32	-231.1	296.2	680.0	646.0	34.02	19.988	
12,775.0	12,404.0	12,691.7	12,396.0	18.6	16.5	89.32	-255.7	296.4	680.0	645.9	34.10	19.940	
12,778.4	12,404.0	12,695.0	12,396.0	18.6	16.6	89.33	-259.0	296.4	680.0	645.9	34.11	19.933	
12,780.1	12,404.0	12,696.7	12,396.0	18.6	16.6	89.33	-260.7	296.4	680.0	645.9	34.12	19.930	
12,800.0	12,404.0	12,716.6	12,396.0	18.6	16.6	89.33	-280.6	296.5	680.0	645.8	34.19	19.886	
12,900.0	12,404.0	12,816.6	12,396.0	18.9	16.7	89.33	-380.6	297.2	680.0	645.3	34.63	19.634	
13,000.0	12,404.0	12,916.6	12,396.0	19.1	16.9	89.33	-480.6	297.8	680.0	644.8	35.15	19.346	
13,100.0	12,404.0	13,016.6	12,396.0	19.4	17.2	89.33	-580.6	298.5	680.0	644.2	35.74	19.026	
13,200.0	12,404.0	13,116.6	12,396.0	19.7	17.5	89.33	-680.6	299.1	680.0	643.6	36.40	18.681	
13,300.0	12,404.0	13,216.6	12,396.0	20.0	17.9	89.33	-780.6	299.8	680.0	642.9	37.13	18.314	
13,400.0	12,404.0	13,316.6	12,396.0	20.4	18.2	89.33	-880.6	300.4	680.0	642.1	37.92	17.932	
13,500.0	12,404.0	13,416.6	12,396.0	20.8	18.7	89.33	-980.6	301.1	680.0	641.2	38.77	17.538	
13,600.0	12,404.0	13,516.6	12,396.0	21.2	19.1	89.33	-1,080.6	301.7	680.0	640.3	39.68	17.138	
13,700.0	12,404.0	13,616.6	12,396.0	21.7	19.6	89.33	-1,180.6	302.4	680.0	639.4	40.64	16.734	
13,800.0	12,404.0	13,716.6	12,396.0	22.1	20.1	89.33	-1,280.6	303.0	680.0	638.3	41.64	16.330	
13,900.0	12,404.0	13,816.6	12,396.0	22.6	20.7	89.33	-1,380.6	303.7	680.0	637.3	42.69	15.928	
14,000.0	12,404.0	13,916.6	12,396.0	23.2	21.3	89.33	-1,480.6	304.4	680.0	636.2	43.78	15.531	
14,100.0	12,404.0	14,016.6	12,396.0	23.7	21.8	89.33	-1,580.6	305.0	680.0	635.1	44.91	15.140	
14,200.0	12,404.0	14,116.6	12,396.0	24.3	22.4	89.33	-1,680.6	305.7	680.0	633.9	46.08	14.757	
14,300.0	12,404.0	14,216.6	12,396.0	24.8	23.1	89.33	-1,780.6	306.3	680.0	632.7	47.28	14.383	
14,400.0	12,404.0	14,316.6	12,396.0	25.4	23.7	89.33	-1,880.5	307.0	680.0	631.5	48.51	14.019	
14,500.0	12,404.0	14,416.6	12,396.0	26.0	24.4	89.33	-1,980.5	307.6	680.0	630.2	49.76	13.665	
14,600.0	12,404.0	14,516.6	12,396.0	26.6	25.0	89.33	-2,080.5	308.3	680.0	628.9	51.05	13.321	
14,700.0	12,404.0	14,616.6	12,396.0	27.3	25.7	89.33	-2,180.5	308.9	680.0	627.6	52.35	12.989	
14,800.0	12,404.0	14,716.6	12,396.0	27.9	26.4	89.33	-2,280.5	309.6	680.0	626.3	53.68	12.667	
14,900.0	12,404.0	14,816.6	12,396.0	28.6	27.1	89.33	-2,380.5	310.2	680.0	625.0	55.03	12.356	
15,000.0	12,404.0	14,916.6	12,396.0	29.3	27.8	89.33	-2,480.5	310.9	680.0	623.6	56.40	12.056	
15,100.0	12,404.0	15,016.6	12,396.0	29.9	28.5	89.33	-2,580.5	311.5	680.0	622.2	57.79	11.767	
15,200.0	12,404.0	15,116.6	12,396.0	30.6	29.2	89.33	-2,680.5	312.2	680.0	620.8	59.19	11.488	
15,300.0	12,404.0	15,216.6	12,396.0	31.3	30.0	89.33	-2,780.5	312.8	680.0	619.4	60.61	11.219	
15,400.0	12,404.0	15,316.6	12,396.0	32.0	30.7	89.33	-2,880.5	313.5	680.0	618.0	62.04	10.960	
15,500.0	12,404.0	15,416.6	12,396.0	32.7	31.4	89.33	-2,980.5	314.1	680.0	616.5	63.49	10.710	
15,600.0	12,404.0	15,516.6	12,396.0	33.5	32.2	89.33	-3,080.5	314.8	680.0	615.1	64.95	10.470	
15,700.0	12,404.0	15,616.6	12,396.0	34.2	32.9	89.33	-3,180.5	315.4	680.0	613.6	66.42	10.238	
15,800.0	12,404.0	15,716.6	12,396.0	34.9	33.7	89.33	-3,280.5	316.1	680.0	612.1	67.90	10.015	
15,900.0	12,404.0	15,816.6	12,396.0	35.7	34.5	89.33	-3,380.5	316.7	680.0	610.6	69.39	9.800	
16,000.0	12,404.0	15,916.6	12,396.0	36.4	35.2	89.33	-3,480.5	317.4	680.0	609.1	70.89	9.592	
16,100.0	12,404.0	16,016.6	12,396.0	37.2	36.0	89.33	-3,580.5	318.0	680.0	607.6	72.40	9.392	
16,200.0	12,404.0	16,116.6	12,396.0	37.9	36.8	89.33	-3,680.5	318.7	680.0	606.1	73.92	9.199	
16,300.0	12,404.0	16,216.6	12,396.0	38.7	37.6	89.33	-3,780.5	319.3	680.0	604.6	75.45	9.013	
16,400.0	12,404.0	16,316.6	12,396.0	39.4	38.4	89.33	-3,880.5	320.0	680.0	603.0	76.98	8.834	
16,500.0	12,404.0	16,416.6	12,396.0	40.2	39.1	89.33	-3,980.5	320.6	680.0	601.5	78.52	8.660	
16,600.0	12,404.0	16,516.6	12,396.0	41.0	39.9	89.33	-4,080.5	321.3	680.0	599.9	80.07	8.493	
16,700.0	12,404.0	16,616.6	12,396.0	41.7	40.7	89.33	-4,180.5	321.9	680.0	598.4	81.62	8.331	
16,800.0	12,404.0	16,716.6	12,396.0	42.5	41.5	89.33	-4,280.5	322.6	680.0	596.8	83.18	8.175	
16,900.0	12,404.0	16,816.6	12,396.0	43.3	42.3	89.33	-4,380.5	323.2	680.0	595.3	84.74	8.024	
17,000.0	12,404.0	16,916.6	12,396.0	44.1	43.1	89.33	-4,480.5	323.9	680.0	593.7	86.31	7.879	
17,100.0	12,404.0	17,016.6	12,396.0	44.9	43.9	89.33	-4,580.5	324.5	680.0	592.1	87.89	7.737	
17,200.0	12,404.0	17,116.6	12,396.0	45.7	44.7	89.33	-4,680.5	325.2	680.0	590.5	89.47	7.601	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 702H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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
17,300.0	12,404.0	17,216.6	12,396.0	46.5	45.6	89.33	-4,780.5	325.8	680.0	589.0	91.05	7.469	
17,400.0	12,404.0	17,316.6	12,396.0	47.3	46.4	89.33	-4,880.5	326.5	680.0	587.4	92.64	7.341	
17,500.0	12,404.0	17,416.6	12,396.0	48.0	47.2	89.33	-4,980.5	327.1	680.0	585.8	94.23	7.217	
17,531.3	12,404.0	17,447.9	12,396.0	48.3	47.4	89.33	-5,011.8	327.3	680.0	585.3	94.73	7.179	
17,600.0	12,404.0	17,516.6	12,396.0	48.8	48.0	89.33	-5,080.5	327.8	680.0	584.2	95.82	7.097	
17,700.0	12,404.0	17,616.6	12,396.0	49.6	48.8	89.33	-5,180.5	328.4	680.0	582.6	97.42	6.980	
17,800.0	12,404.0	17,716.6	12,396.0	50.4	49.6	89.33	-5,280.5	329.1	680.0	581.0	99.02	6.867	
17,900.0	12,404.0	17,816.6	12,396.0	51.3	50.4	89.33	-5,380.5	329.7	680.0	579.4	100.63	6.758	
18,000.0	12,404.0	17,916.6	12,396.0	52.1	51.3	89.33	-5,480.5	330.4	680.0	577.8	102.24	6.651	
18,100.0	12,404.0	18,016.6	12,396.0	52.9	52.1	89.33	-5,580.5	331.0	680.0	576.2	103.85	6.548	
18,200.0	12,404.0	18,116.6	12,396.0	53.7	52.9	89.33	-5,680.5	331.7	680.0	574.6	105.46	6.448	
18,300.0	12,404.0	18,216.6	12,396.0	54.5	53.7	89.33	-5,780.5	332.4	680.0	572.9	107.08	6.351	
18,400.0	12,404.0	18,316.6	12,396.0	55.3	54.6	89.33	-5,880.5	333.0	680.0	571.3	108.70	6.256	
18,500.0	12,404.0	18,416.6	12,396.0	56.1	55.4	89.33	-5,980.5	333.7	680.0	569.7	110.32	6.164	
18,600.0	12,404.0	18,516.6	12,396.0	56.9	56.2	89.33	-6,080.5	334.3	680.0	568.1	111.95	6.075	
18,700.0	12,404.0	18,616.6	12,396.0	57.8	57.0	89.33	-6,180.5	335.0	680.0	566.5	113.57	5.988	
18,800.0	12,404.0	18,716.6	12,396.0	58.6	57.9	89.33	-6,280.5	335.6	680.0	564.8	115.20	5.903	
18,900.0	12,404.0	18,816.6	12,396.0	59.4	58.7	89.33	-6,380.5	336.3	680.0	563.2	116.83	5.820	
19,000.0	12,404.0	18,916.6	12,396.0	60.2	59.5	89.33	-6,480.5	336.9	680.0	561.6	118.47	5.740	
19,100.0	12,404.0	19,016.6	12,396.0	61.0	60.4	89.33	-6,580.4	337.6	680.0	559.9	120.10	5.662	
19,200.0	12,404.0	19,116.6	12,396.0	61.9	61.2	89.33	-6,680.4	338.2	680.0	558.3	121.74	5.586	
19,300.0	12,404.0	19,216.6	12,396.0	62.7	62.0	89.33	-6,780.4	338.9	680.0	556.7	123.38	5.512	
19,400.0	12,404.0	19,316.6	12,396.0	63.5	62.9	89.33	-6,880.4	339.5	680.0	555.0	125.02	5.439	
19,500.0	12,404.0	19,416.6	12,396.0	64.3	63.7	89.33	-6,980.4	340.2	680.0	553.4	126.66	5.369	
19,600.0	12,404.0	19,516.6	12,396.0	65.2	64.5	89.33	-7,080.4	340.8	680.0	551.7	128.30	5.300	
19,700.0	12,404.0	19,616.6	12,396.0	66.0	65.4	89.33	-7,180.4	341.5	680.0	550.1	129.95	5.233	
19,800.0	12,404.0	19,716.6	12,396.0	66.8	66.2	89.33	-7,280.4	342.1	680.0	548.4	131.59	5.168	
19,900.0	12,404.0	19,816.6	12,396.0	67.7	67.1	89.33	-7,380.4	342.8	680.0	546.8	133.24	5.104	
20,000.0	12,404.0	19,916.6	12,396.0	68.5	67.9	89.33	-7,480.4	343.4	680.0	545.1	134.89	5.041	
20,100.0	12,404.0	20,016.6	12,396.0	69.3	68.7	89.33	-7,580.4	344.1	680.0	543.5	136.54	4.980	
20,200.0	12,404.0	20,116.6	12,396.0	70.2	69.6	89.33	-7,680.4	344.7	680.0	541.8	138.19	4.921	
20,300.0	12,404.0	20,216.6	12,396.0	71.0	70.4	89.33	-7,780.4	345.4	680.0	540.2	139.84	4.863	
20,400.0	12,404.0	20,316.6	12,396.0	71.8	71.3	89.33	-7,880.4	346.0	680.0	538.5	141.50	4.806	
20,500.0	12,404.0	20,416.6	12,396.0	72.7	72.1	89.33	-7,980.4	346.7	680.0	536.9	143.15	4.750	
20,600.0	12,404.0	20,516.6	12,396.0	73.5	72.9	89.33	-8,080.4	347.3	680.0	535.2	144.81	4.696	
20,700.0	12,404.0	20,616.6	12,396.0	74.3	73.8	89.33	-8,180.4	348.0	680.0	533.6	146.47	4.643	
20,800.0	12,404.0	20,716.6	12,396.0	75.2	74.6	89.33	-8,280.4	348.6	680.0	531.9	148.12	4.591	
20,900.0	12,404.0	20,816.6	12,396.0	76.0	75.5	89.33	-8,380.4	349.3	680.0	530.3	149.78	4.540	
21,000.0	12,404.0	20,916.6	12,396.0	76.8	76.3	89.33	-8,480.4	349.9	680.0	528.6	151.44	4.490	
21,100.0	12,404.0	21,016.6	12,396.0	77.7	77.2	89.33	-8,580.4	350.6	680.0	526.9	153.10	4.442	
21,200.0	12,404.0	21,116.6	12,396.0	78.5	78.0	89.33	-8,680.4	351.2	680.0	525.3	154.77	4.394	
21,300.0	12,404.0	21,216.6	12,396.0	79.4	78.8	89.33	-8,780.4	351.9	680.0	523.6	156.43	4.347	
21,400.0	12,404.0	21,316.6	12,396.0	80.2	79.7	89.33	-8,880.4	352.5	680.0	522.0	158.09	4.302	
21,500.0	12,404.0	21,416.6	12,396.0	81.0	80.5	89.33	-8,980.4	353.2	680.0	520.3	159.76	4.257	
21,600.0	12,404.0	21,516.6	12,396.0	81.9	81.4	89.33	-9,080.4	353.8	680.0	518.6	161.42	4.213	
21,700.0	12,404.0	21,616.6	12,396.0	82.7	82.2	89.33	-9,180.4	354.5	680.0	517.0	163.09	4.170	
21,800.0	12,404.0	21,716.6	12,396.0	83.6	83.1	89.33	-9,280.4	355.1	680.0	515.3	164.75	4.128	
21,900.0	12,404.0	21,816.6	12,396.0	84.4	83.9	89.33	-9,380.4	355.8	680.0	513.6	166.42	4.086	
22,000.0	12,404.0	21,916.6	12,396.0	85.3	84.8	89.33	-9,480.4	356.4	680.1	512.0	168.09	4.046	
22,100.0	12,404.0	22,016.6	12,396.0	86.1	85.6	89.33	-9,580.4	357.1	680.1	510.3	169.76	4.006	
22,200.0	12,404.0	22,116.6	12,396.0	86.9	86.5	89.33	-9,680.4	357.7	680.1	508.6	171.43	3.967	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 702H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 11947-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
22,300.0	12,404.0	22,216.6	12,396.0	87.8	87.3	89.33	-9,780.4	358.4	680.1	507.0	173.10	3.929	
22,400.0	12,404.0	22,316.6	12,396.0	88.6	88.2	89.33	-9,880.4	359.0	680.1	505.3	174.77	3.891	
22,500.0	12,404.0	22,416.6	12,396.0	89.5	89.0	89.33	-9,980.4	359.7	680.1	503.6	176.44	3.854	
22,600.0	12,404.0	22,516.6	12,396.0	90.3	89.9	89.33	-10,080.4	360.4	680.1	501.9	178.11	3.818	
22,700.0	12,404.0	22,616.6	12,396.0	91.2	90.7	89.33	-10,180.4	361.0	680.1	500.3	179.78	3.783	
22,712.9	12,404.0	22,629.4	12,396.0	91.3	90.8	89.33	-10,193.2	361.1	680.1	500.1	179.99	3.778	
22,762.9	12,404.0	22,679.4	12,396.0	91.7	91.2	89.33	-10,243.2	361.4	680.1	499.2	180.83	3.761	
22,763.3	12,404.0	22,679.8	12,396.0	91.7	91.2	89.33	-10,243.6	361.4	680.1	499.2	180.83	3.761 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	-90.50	-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	78.1	1.91	41.984	
200.0	200.0	199.0	199.0	1.1	1.0	-90.50	-0.7	-80.0	80.0	77.2	2.84	28.144	
300.0	300.0	299.0	299.0	1.4	1.4	-90.50	-0.7	-80.0	80.0	76.5	3.47	23.058	
400.0	400.0	399.0	399.0	1.7	1.7	-90.50	-0.7	-80.0	80.0	76.0	3.97	20.128	
500.0	500.0	499.0	499.0	1.9	1.9	-90.50	-0.7	-80.0	80.0	75.6	4.41	18.143	
600.0	600.0	599.0	599.0	2.1	2.1	-90.50	-0.7	-80.0	80.0	75.2	4.80	16.677	
700.0	700.0	699.0	699.0	2.3	2.3	-90.50	-0.7	-80.0	80.0	74.9	5.15	15.533	
800.0	800.0	799.0	799.0	2.5	2.5	-90.50	-0.7	-80.0	80.0	74.5	5.48	14.607	
900.0	900.0	899.0	899.0	2.7	2.7	-90.50	-0.7	-80.0	80.0	74.2	5.78	13.836	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.50	-0.7	-80.0	80.0	73.9	6.07	13.181	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.50	-0.7	-80.0	80.0	73.7	6.34	12.614	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.50	-0.7	-80.0	80.0	73.4	6.60	12.118	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.50	-0.7	-80.0	80.0	73.2	6.85	11.678	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.50	-0.7	-80.0	80.0	72.9	7.09	11.285	
1,500.0	1,500.0	1,499.0	1,499.0	3.7	3.7	-90.50	-0.7	-80.0	80.0	72.7	7.32	10.930 CC, ES	
1,600.0	1,600.0	1,599.0	1,599.0	3.8	3.8	-167.86	-0.7	-80.0	81.7	74.2	7.52	10.865 SF	
1,700.0	1,699.8	1,698.8	1,698.8	4.0	4.0	-168.56	-0.7	-80.0	86.8	78.9	7.96	10.904	
1,800.0	1,799.5	1,798.5	1,798.5	4.3	4.1	-169.57	-0.7	-80.0	95.4	87.0	8.39	11.368	
1,900.0	1,898.7	1,897.7	1,897.7	4.6	4.3	-170.71	-0.7	-80.0	107.4	98.6	8.81	12.197	
2,000.0	1,997.5	1,996.5	1,996.5	4.8	4.4	-171.84	-0.7	-80.0	122.9	113.7	9.21	13.342	
2,100.0	2,095.6	2,094.6	2,094.6	5.1	4.6	-172.89	-0.7	-80.0	141.8	132.1	9.69	14.639	
2,125.0	2,120.0	2,119.0	2,119.0	5.1	4.7	-173.13	-0.7	-80.0	147.0	137.3	9.75	15.081	
2,200.0	2,193.3	2,192.3	2,192.3	5.2	4.8	-173.81	-0.7	-80.0	163.2	153.2	9.99	16.343	
2,300.0	2,290.9	2,286.0	2,286.0	5.4	4.9	-174.22	0.1	-81.0	185.7	175.3	10.36	17.914	
2,400.0	2,388.5	2,378.4	2,378.3	5.6	5.1	-173.93	2.7	-84.4	210.4	199.6	10.73	19.605	
2,500.0	2,486.2	2,469.6	2,469.2	5.8	5.3	-173.18	7.1	-90.0	237.3	226.2	11.09	21.401	
2,600.0	2,583.8	2,560.1	2,559.2	6.0	5.4	-172.14	13.3	-97.8	266.4	255.0	11.37	23.436	
2,700.0	2,681.4	2,655.4	2,653.7	6.2	5.5	-171.09	20.4	-106.9	296.5	284.8	11.67	25.406	
2,800.0	2,779.1	2,750.6	2,748.2	6.4	5.7	-170.24	27.6	-116.0	326.6	314.6	12.00	27.207	
2,900.0	2,876.7	2,845.8	2,842.8	6.5	5.8	-169.53	34.8	-125.2	356.8	344.5	12.34	28.910	
3,000.0	2,974.3	2,941.1	2,937.3	6.7	6.0	-168.93	41.9	-134.3	387.1	374.4	12.68	30.521	
3,100.0	3,071.9	3,036.3	3,031.8	6.9	6.1	-168.41	49.1	-143.4	417.3	404.3	13.02	32.046	
3,200.0	3,169.6	3,131.6	3,126.4	7.1	6.3	-167.97	56.3	-152.5	447.6	434.3	13.37	33.492	
3,300.0	3,267.2	3,226.8	3,220.9	7.3	6.4	-167.58	63.5	-161.7	478.0	464.3	13.71	34.863	
3,400.0	3,364.8	3,322.1	3,315.4	7.5	6.6	-167.24	70.6	-170.8	508.3	494.3	14.06	36.165	
3,500.0	3,462.5	3,417.3	3,410.0	7.7	6.7	-166.94	77.8	-179.9	538.7	524.3	14.40	37.402	
3,600.0	3,560.1	3,512.5	3,504.5	7.9	6.9	-166.67	85.0	-189.1	569.1	554.3	14.75	38.579	
3,700.0	3,657.7	3,607.8	3,599.0	8.2	7.0	-166.42	92.1	-198.2	599.4	584.3	15.10	39.700	
3,800.0	3,755.4	3,703.0	3,693.6	8.4	7.2	-166.20	99.3	-207.3	629.8	614.4	15.45	40.768	
3,900.0	3,853.0	3,798.3	3,788.1	8.6	7.4	-166.00	106.5	-216.5	660.2	644.4	15.80	41.786	
4,000.0	3,950.6	3,893.5	3,882.6	8.8	7.5	-165.82	113.7	-225.6	690.6	674.5	16.15	42.758	
4,100.0	4,048.2	3,988.8	3,977.2	9.0	7.7	-165.66	120.8	-234.7	721.1	704.5	16.51	43.687	
4,200.0	4,145.9	4,084.0	4,071.7	9.2	7.8	-165.50	128.0	-243.9	751.5	734.6	16.86	44.575	
4,300.0	4,243.5	4,179.2	4,166.2	9.4	8.0	-165.36	135.2	-253.0	781.9	764.7	17.21	45.424	
4,400.0	4,341.1	4,274.5	4,260.8	9.6	8.2	-165.23	142.3	-262.1	812.3	794.7	17.57	46.238	
4,500.0	4,438.8	4,369.7	4,355.3	9.8	8.3	-165.11	149.5	-271.2	842.7	824.8	17.92	47.017	
4,600.0	4,536.4	4,465.0	4,449.8	10.0	8.5	-165.00	156.7	-280.4	873.2	854.9	18.28	47.765	
4,700.0	4,634.0	4,560.2	4,544.4	10.2	8.7	-164.89	163.9	-289.5	903.6	885.0	18.64	48.483	
4,800.0	4,731.7	4,655.5	4,638.9	10.4	8.8	-164.79	171.0	-298.6	934.1	915.1	19.00	49.172	
4,900.0	4,829.3	4,750.7	4,733.4	10.7	9.0	-164.70	178.2	-307.8	964.5	945.1	19.36	49.826	

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 701H
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 701H	**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
5,000.0	4,926.9	4,852.6	4,834.6	10.9	9.2	-164.62	185.8	-317.4	994.8	975.1	19.74	50.400	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	-90.53	-1.1	-119.9	119.9				
100.0	100.0	99.0	99.0	0.6	0.6	-90.53	-1.1	-119.9	119.9	118.3	1.58	76.013	
200.0	200.0	199.0	199.0	1.1	1.0	-90.53	-1.1	-119.9	119.9	117.4	2.51	47.686	
300.0	300.0	299.0	299.0	1.4	1.4	-90.53	-1.1	-119.9	119.9	116.8	3.14	38.168	
400.0	400.0	399.0	399.0	1.7	1.7	-90.53	-1.1	-119.9	119.9	116.3	3.65	32.882	
500.0	500.0	499.0	499.0	1.9	1.9	-90.53	-1.1	-119.9	119.9	115.8	4.08	29.379	
600.0	600.0	599.0	599.0	2.1	2.1	-90.53	-1.1	-119.9	119.9	115.4	4.47	26.830	
700.0	700.0	699.0	699.0	2.3	2.3	-90.53	-1.1	-119.9	119.9	115.1	4.82	24.865	
800.0	800.0	799.0	799.0	2.5	2.5	-90.53	-1.1	-119.9	119.9	114.8	5.15	23.288	
900.0	900.0	899.0	899.0	2.7	2.7	-90.53	-1.1	-119.9	119.9	114.5	5.45	21.985	
1,000.0	1,000.0	999.0	999.0	2.9	2.9	-90.53	-1.1	-119.9	119.9	114.2	5.74	20.884	
1,100.0	1,100.0	1,099.0	1,099.0	3.1	3.1	-90.53	-1.1	-119.9	119.9	113.9	6.01	19.937	
1,200.0	1,200.0	1,199.0	1,199.0	3.2	3.2	-90.53	-1.1	-119.9	119.9	113.6	6.27	19.111	CC, ES
1,300.0	1,300.0	1,295.1	1,295.1	3.4	3.4	-90.35	-0.7	-121.4	121.5	114.8	6.66	18.242	
1,400.0	1,400.0	1,390.9	1,390.8	3.5	3.6	-89.85	0.3	-126.1	126.4	119.3	7.03	17.971	SF
1,500.0	1,500.0	1,486.4	1,485.9	3.7	3.8	-89.09	2.1	-133.8	134.5	127.1	7.39	18.196	
1,600.0	1,600.0	1,580.9	1,579.8	3.8	4.0	-165.38	4.6	-144.5	147.6	139.7	7.85	18.795	
1,700.0	1,699.8	1,674.0	1,671.8	4.0	4.3	-164.75	7.7	-158.0	167.1	158.7	8.41	19.865	
1,800.0	1,799.5	1,764.9	1,761.3	4.3	4.5	-164.31	11.4	-174.0	193.1	184.1	8.95	21.562	
1,900.0	1,898.7	1,853.3	1,847.6	4.6	4.8	-164.00	15.6	-192.2	225.2	215.7	9.45	23.836	
2,000.0	1,997.5	1,942.1	1,933.9	4.8	5.0	-163.80	20.4	-212.7	262.9	253.0	9.90	26.565	
2,100.0	2,095.6	2,033.2	2,022.3	5.1	5.2	-163.74	25.3	-234.2	304.2	293.9	10.31	29.503	
2,125.0	2,120.0	2,055.7	2,044.1	5.1	5.2	-163.75	26.6	-239.5	314.9	304.6	10.38	30.351	
2,200.0	2,193.3	2,123.2	2,109.6	5.2	5.3	-163.95	30.2	-255.4	347.6	337.0	10.60	32.796	
2,300.0	2,290.9	2,213.2	2,197.0	5.4	5.5	-164.18	35.1	-276.7	391.1	380.2	10.93	35.789	
2,400.0	2,388.5	2,303.3	2,284.3	5.6	5.6	-164.35	40.1	-297.9	434.7	423.4	11.26	38.590	
2,500.0	2,486.2	2,393.3	2,371.7	5.8	5.8	-164.50	45.0	-319.1	478.2	466.6	11.60	41.212	
2,600.0	2,583.8	2,483.3	2,459.0	6.0	6.0	-164.62	49.9	-340.3	521.7	509.8	11.95	43.671	
2,700.0	2,681.4	2,573.3	2,546.4	6.2	6.1	-164.72	54.8	-361.5	565.3	553.0	12.29	45.977	
2,800.0	2,779.1	2,663.3	2,633.7	6.4	6.3	-164.81	59.7	-382.8	608.8	596.2	12.65	48.144	
2,900.0	2,876.7	2,753.4	2,721.1	6.5	6.5	-164.88	64.6	-404.0	652.4	639.4	13.00	50.181	
3,000.0	2,974.3	2,843.4	2,808.4	6.7	6.7	-164.95	69.5	-425.2	695.9	682.6	13.36	52.098	
3,100.0	3,071.9	2,933.4	2,895.7	6.9	6.9	-165.01	74.4	-446.4	739.5	725.7	13.72	53.905	
3,200.0	3,169.6	3,023.4	2,983.1	7.1	7.0	-165.06	79.3	-467.6	783.0	768.9	14.08	55.608	
3,300.0	3,267.2	3,113.4	3,070.4	7.3	7.2	-165.11	84.2	-488.9	826.6	812.1	14.45	57.217	
3,400.0	3,364.8	3,203.5	3,157.8	7.5	7.4	-165.15	89.1	-510.1	870.1	855.3	14.81	58.738	
3,500.0	3,462.5	3,293.5	3,245.1	7.7	7.6	-165.19	94.0	-531.3	913.6	898.5	15.18	60.176	
3,600.0	3,560.1	3,383.5	3,332.5	7.9	7.8	-165.22	98.9	-552.5	957.2	941.6	15.55	61.539	

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 701H
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 701H	**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 - CUERVO FEDERAL 23H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 139-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
9,500.0	9,398.1	14,280.0	9,850.1	16.3	83.9	60.87	641.1	1,723.6	969.7	869.9	99.87	9.710	
9,600.0	9,498.1	14,280.0	9,850.1	16.4	83.9	60.87	641.1	1,723.6	927.6	824.7	102.87	9.017	
9,700.0	9,598.1	14,280.0	9,850.1	16.5	83.9	60.87	641.1	1,723.6	894.7	789.2	105.47	8.483	
9,800.0	9,698.1	14,280.0	9,850.1	16.5	83.9	60.87	641.1	1,723.6	872.0	764.6	107.43	8.117	
9,900.0	9,798.1	14,280.0	9,850.1	16.6	83.9	60.87	641.1	1,723.6	860.5	751.9	108.54	7.928	
9,950.0	9,848.1	14,280.0	9,850.1	16.6	83.9	60.87	641.1	1,723.6	859.0	750.3	108.74	7.900	CC, ES, SF
10,000.0	9,898.1	14,280.0	9,850.1	16.6	83.9	60.87	641.1	1,723.6	860.5	751.8	108.70	7.916	
10,100.0	9,998.1	14,280.0	9,850.1	16.7	83.9	60.87	641.1	1,723.6	872.0	764.2	107.88	8.083	
10,200.0	10,098.1	14,280.0	9,850.1	16.8	83.9	60.87	641.1	1,723.6	894.7	788.4	106.23	8.422	
10,300.0	10,198.1	14,280.0	9,850.1	16.8	83.9	60.87	641.1	1,723.6	927.6	823.7	103.94	8.925	
10,400.0	10,298.1	14,280.0	9,850.1	16.9	83.9	60.87	641.1	1,723.6	969.8	868.5	101.25	9.578	

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 701H
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 701H	**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 - DIAMONDTAIL 23 FEDERAL 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 128-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
6,200.0	6,101.2	6,085.9	6,085.3	13.5	21.3	27.31	-34.4	1,872.7	990.9	955.5	35.31	28.058	
6,300.0	6,200.2	6,183.0	6,182.4	13.7	21.6	27.65	-35.3	1,874.2	980.3	944.5	35.83	27.359	
6,400.0	6,299.5	6,280.6	6,280.0	13.9	21.9	27.98	-36.6	1,875.9	971.6	935.2	36.35	26.730	
6,500.0	6,399.0	6,381.9	6,381.3	14.1	22.3	28.29	-37.9	1,877.7	964.4	927.6	36.87	26.155	
6,600.0	6,498.6	6,479.7	6,479.1	14.3	22.6	28.55	-39.2	1,879.4	958.8	921.5	37.39	25.648	
6,700.0	6,598.3	6,582.7	6,582.0	14.4	23.0	28.78	-40.5	1,881.2	954.8	916.8	37.91	25.184	
6,800.0	6,698.2	6,684.1	6,683.4	14.6	23.3	28.96	-41.5	1,882.7	951.9	913.5	38.43	24.773	
6,900.0	6,798.2	6,782.4	6,781.7	14.8	23.6	29.09	-42.6	1,884.2	950.7	911.8	38.93	24.423	
6,926.7	6,824.9	6,809.2	6,808.5	14.8	23.7	29.11	-42.9	1,884.6	950.6	911.6	39.06	24.339 CC, ES	
7,000.0	6,898.1	6,882.9	6,882.1	14.9	24.0	29.17	-43.7	1,885.8	951.0	911.6	39.42	24.123	
7,046.9	6,945.0	6,930.6	6,929.9	14.9	24.2	106.30	-44.2	1,886.5	951.7	912.1	39.64	24.010	
7,100.0	6,998.1	6,984.2	6,983.4	14.9	24.3	106.32	-44.8	1,887.3	952.6	912.7	39.87	23.893	
7,200.0	7,098.1	7,083.1	7,082.3	15.0	24.7	106.36	-45.8	1,888.7	954.2	913.9	40.32	23.670	
7,300.0	7,198.1	7,181.2	7,180.4	15.1	25.0	106.39	-46.9	1,890.3	956.1	915.4	40.76	23.457	
7,400.0	7,298.1	7,282.7	7,281.9	15.1	25.4	106.44	-48.1	1,892.0	958.1	916.8	41.22	23.242	
7,500.0	7,398.1	7,384.6	7,383.7	15.2	25.7	106.49	-49.4	1,893.3	959.7	918.0	41.68	23.023	
7,600.0	7,498.1	7,485.4	7,484.6	15.2	26.1	106.54	-50.8	1,894.6	961.3	919.2	42.15	22.809	
7,700.0	7,598.1	7,587.7	7,586.9	15.3	26.4	106.61	-52.3	1,895.7	962.7	920.1	42.61	22.591	
7,800.0	7,698.1	7,687.8	7,686.9	15.3	26.8	106.67	-53.6	1,896.5	963.9	920.9	43.08	22.378	
7,900.0	7,798.1	7,786.3	7,785.4	15.4	27.1	106.75	-55.3	1,897.4	965.3	921.7	43.53	22.174	
8,000.0	7,898.1	7,883.8	7,882.9	15.4	27.4	106.82	-56.9	1,898.5	966.8	922.8	43.98	21.981	
8,100.0	7,998.1	7,985.4	7,984.5	15.5	27.8	106.91	-58.8	1,899.7	968.5	924.0	44.46	21.785	
8,200.0	8,098.1	8,088.2	8,087.3	15.6	28.1	107.00	-60.6	1,900.6	969.8	924.9	44.93	21.584	
8,300.0	8,198.1	8,190.0	8,189.0	15.6	28.5	107.10	-62.5	1,901.2	971.0	925.5	45.41	21.384	
8,400.0	8,298.1	8,287.0	8,286.0	15.7	28.8	107.20	-64.5	1,901.8	972.1	926.3	45.86	21.197	
8,500.0	8,398.1	8,388.8	8,387.8	15.7	29.2	107.31	-66.7	1,902.5	973.4	927.1	46.34	21.006	
8,600.0	8,498.1	8,487.7	8,486.7	15.8	29.5	107.43	-69.0	1,903.0	974.6	927.8	46.80	20.824	
8,700.0	8,598.1	8,589.0	8,587.9	15.9	29.9	107.55	-71.3	1,903.6	975.9	928.6	47.28	20.640	
8,800.0	8,698.1	8,692.8	8,691.7	15.9	30.3	107.67	-73.5	1,903.9	976.8	929.1	47.77	20.449	
8,900.0	8,798.1	8,796.7	8,795.5	16.0	30.6	107.78	-75.5	1,903.9	977.4	929.1	48.26	20.253	
9,000.0	8,898.1	8,901.6	8,900.5	16.0	31.0	107.87	-77.1	1,903.6	977.5	928.8	48.75	20.050	
9,100.0	8,998.1	9,004.9	9,003.8	16.1	31.4	107.96	-78.4	1,902.7	977.2	927.9	49.24	19.844	
9,200.0	9,098.1	9,103.3	9,102.2	16.2	31.7	108.03	-79.4	1,901.9	976.7	927.0	49.71	19.646	
9,275.7	9,173.8	9,176.0	9,174.8	16.2	32.0	108.08	-80.2	1,901.5	976.6	926.5	50.06	19.506	
9,300.0	9,198.1	9,176.0	9,174.8	16.2	32.0	108.08	-80.2	1,901.5	976.9	926.8	50.07	19.509	
9,400.0	9,298.1	9,239.0	9,237.6	16.3	32.2	108.35	-85.1	1,901.7	980.2	929.8	50.35	19.467 SF	
9,500.0	9,398.1	9,293.0	9,290.7	16.3	32.4	108.87	-94.8	1,902.8	988.4	937.9	50.52	19.563	

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 701H
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 701H	**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
9,900.0	9,798.1	15,725.0	10,699.2	16.6	92.8	-23.56	363.3	912.0	907.3	838.5	68.77	13.193	
10,000.0	9,898.1	15,725.0	10,699.2	16.6	92.8	-23.56	363.3	912.0	808.9	740.0	68.90	11.740	
10,100.0	9,998.1	15,725.0	10,699.2	16.7	92.8	-23.56	363.3	912.0	711.0	641.9	69.02	10.300	
10,200.0	10,098.1	15,725.0	10,699.2	16.8	92.8	-23.56	363.3	912.0	613.7	544.5	69.13	8.877	
10,300.0	10,198.1	15,725.0	10,699.2	16.8	92.8	-23.56	363.3	912.0	517.4	448.2	69.22	7.475	
10,400.0	10,298.1	15,725.0	10,699.2	16.9	92.8	-23.56	363.3	912.0	423.0	353.7	69.28	6.106	
10,500.0	10,398.1	15,725.0	10,699.2	16.9	92.8	-23.56	363.3	912.0	331.7	262.5	69.25	4.790	
10,600.0	10,498.1	15,725.0	10,699.2	17.0	92.8	-23.56	363.3	912.0	247.4	178.3	69.10	3.580	
10,700.0	10,598.1	15,725.0	10,699.2	17.1	92.8	-23.56	363.3	912.0	179.9	111.1	68.81	2.614	Normal Operations
10,794.2	10,692.4	15,725.0	10,699.2	17.1	92.8	-23.56	363.3	912.0	153.2	84.1	69.07	2.218	Caution - Monitor Closely, CC, ES
10,800.0	10,698.1	15,725.0	10,699.2	17.1	92.8	-23.56	363.3	912.0	153.3	84.2	69.13	2.218	Caution - Monitor Closely, SF
10,900.0	10,798.1	15,725.0	10,699.2	17.2	92.8	-23.56	363.3	912.0	186.1	115.9	70.29	2.648	Normal Operations
11,000.0	10,898.1	15,725.0	10,699.2	17.3	92.8	-23.56	363.3	912.0	256.5	185.5	70.99	3.614	
11,100.0	10,998.1	15,725.0	10,699.2	17.3	92.8	-23.56	363.3	912.0	342.0	270.6	71.34	4.794	
11,200.0	11,098.1	15,725.0	10,699.2	17.4	92.8	-23.56	363.3	912.0	433.7	362.1	71.59	6.058	
11,300.0	11,198.1	15,725.0	10,699.2	17.4	92.8	-23.56	363.3	912.0	528.4	456.6	71.81	7.359	
11,400.0	11,298.1	15,725.0	10,699.2	17.5	92.8	-23.56	363.3	912.0	624.8	552.8	72.02	8.676	
11,500.0	11,398.1	15,725.0	10,699.2	17.6	92.8	-23.56	363.3	912.0	722.2	650.0	72.23	9.998	
11,600.0	11,498.1	15,725.0	10,699.2	17.6	92.8	-23.56	363.3	912.0	820.2	747.7	72.45	11.320	
11,700.0	11,598.1	15,725.0	10,699.2	17.7	92.8	-23.56	363.3	912.0	918.6	845.9	72.68	12.640	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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: BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 701H - ST01 - ST01

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 11808-MWD+IFR1+FDIR

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
16,900.0	12,404.0	22,687.0	12,381.3	43.3	90.6	-93.98	-5,051.3	1,736.4	998.0	892.2	105.78	9.435	
17,000.0	12,404.0	22,687.0	12,381.3	44.1	90.6	-93.98	-5,051.3	1,736.4	932.8	820.4	112.38	8.300	
17,100.0	12,404.0	22,687.0	12,381.3	44.9	90.6	-93.98	-5,051.3	1,736.4	874.1	754.8	119.33	7.325	
17,200.0	12,404.0	22,687.0	12,381.3	45.7	90.6	-93.98	-5,051.3	1,736.4	823.4	697.1	126.31	6.519	
17,300.0	12,404.0	22,687.0	12,381.3	46.5	90.6	-93.98	-5,051.3	1,736.4	782.3	649.5	132.86	5.889	
17,400.0	12,404.0	22,687.0	12,381.3	47.3	90.6	-93.98	-5,051.3	1,736.4	752.4	614.0	138.37	5.437	
17,500.0	12,404.0	22,687.0	12,381.3	48.0	90.6	-93.98	-5,051.3	1,736.4	734.9	592.7	142.22	5.168	
17,531.3	12,404.0	22,687.0	12,381.3	48.3	90.6	-93.98	-5,051.3	1,736.4	732.2	589.2	142.99	5.120	
17,580.0	12,404.0	22,687.0	12,381.3	48.7	90.6	-93.98	-5,051.3	1,736.4	730.5	586.8	143.74	5.082	
17,600.0	12,404.0	22,674.0	12,381.3	48.8	90.5	-93.99	-5,064.3	1,736.6	730.7	587.0	143.74	5.084	
17,700.0	12,404.0	22,574.0	12,381.5	49.6	89.6	-93.99	-5,164.3	1,738.3	731.8	588.5	143.23	5.109	
17,800.0	12,404.0	22,438.2	12,382.5	50.4	88.5	-94.08	-5,300.0	1,738.2	731.4	589.3	142.12	5.146	
17,900.0	12,404.0	22,292.6	12,384.6	51.3	87.2	-94.31	-5,445.2	1,727.1	722.7	582.3	140.41	5.147	
18,000.0	12,404.0	22,224.0	12,384.9	52.1	86.7	-94.38	-5,513.5	1,721.4	714.1	573.3	140.88	5.069	
18,100.0	12,404.0	22,152.0	12,384.3	52.9	86.1	-94.35	-5,585.4	1,718.5	709.6	568.6	141.07	5.030	
18,200.0	12,404.0	22,047.5	12,384.9	53.7	85.2	-94.41	-5,690.0	1,717.8	708.3	567.8	140.57	5.039	
18,300.0	12,404.0	21,952.5	12,389.5	54.5	84.4	-94.79	-5,784.7	1,715.6	705.9	565.6	140.26	5.033	
18,400.0	12,404.0	21,854.1	12,393.2	55.3	83.5	-95.11	-5,883.1	1,714.2	704.1	564.2	139.90	5.033	
18,500.0	12,404.0	21,732.2	12,391.1	56.1	82.5	-94.96	-6,004.9	1,711.0	700.6	561.5	139.10	5.037	
18,600.0	12,404.0	21,631.8	12,389.8	56.9	81.7	-94.90	-6,105.2	1,706.8	695.7	556.9	138.77	5.013	
18,700.0	12,404.0	21,531.1	12,389.0	57.8	80.8	-94.86	-6,205.9	1,702.8	691.0	552.6	138.45	4.991	
18,800.0	12,404.0	21,428.7	12,387.7	58.6	80.0	-94.79	-6,308.1	1,697.8	685.4	547.3	138.11	4.963	
18,900.0	12,404.0	21,343.1	12,388.5	59.4	79.2	-94.88	-6,393.6	1,694.6	681.1	542.9	138.17	4.929	
19,000.0	12,404.0	21,256.3	12,388.8	60.2	78.5	-94.93	-6,480.4	1,693.3	679.0	540.8	138.17	4.914	
19,100.0	12,404.0	21,162.8	12,388.7	61.0	77.7	-94.93	-6,573.9	1,692.9	677.9	539.9	138.05	4.911	
19,111.0	12,404.0	21,154.1	12,388.7	61.1	77.6	-94.93	-6,582.6	1,693.0	677.9	539.8	138.06	4.910	CC, ES
19,200.0	12,404.0	21,082.6	12,389.2	61.9	77.0	-94.96	-6,654.0	1,694.4	679.1	541.0	138.10	4.917	
19,300.0	12,404.0	20,993.0	12,390.5	62.7	76.3	-95.05	-6,743.6	1,697.4	682.0	544.0	138.00	4.942	
19,400.0	12,404.0	20,910.5	12,392.8	63.5	75.6	-95.22	-6,825.9	1,701.7	686.9	549.0	137.91	4.981	
19,500.0	12,404.0	20,790.0	12,397.7	64.3	74.5	-95.57	-6,946.2	1,708.6	692.4	554.8	137.60	5.032	
19,600.0	12,404.0	20,678.5	12,402.2	65.2	73.6	-95.92	-7,057.5	1,712.3	695.5	558.2	137.32	5.065	
19,700.0	12,404.0	20,555.6	12,404.7	66.0	72.5	-96.12	-7,180.3	1,713.1	695.7	558.8	136.87	5.083	
19,800.0	12,404.0	20,458.0	12,403.4	66.8	71.7	-96.03	-7,278.0	1,712.4	694.1	557.3	136.83	5.073	
19,900.0	12,404.0	20,361.3	12,400.2	67.7	70.9	-95.76	-7,374.6	1,712.9	693.7	556.8	136.84	5.069	
19,937.4	12,404.0	20,327.0	12,398.9	68.0	70.6	-95.66	-7,408.9	1,713.1	693.5	556.6	136.88	5.067	
20,000.0	12,404.0	20,281.1	12,396.5	68.5	70.2	-95.45	-7,454.7	1,714.1	694.1	557.0	137.08	5.064	
20,100.0	12,404.0	20,205.7	12,389.4	69.3	69.6	-94.85	-7,529.7	1,718.7	698.7	561.4	137.28	5.089	
20,200.0	12,404.0	20,104.6	12,380.6	70.2	68.8	-94.08	-7,630.1	1,726.4	705.0	567.7	137.33	5.134	
20,300.0	12,404.0	19,968.6	12,373.5	71.0	67.6	-93.47	-7,765.6	1,732.8	708.9	571.8	137.08	5.171	
20,400.0	12,404.0	19,868.3	12,374.2	71.8	66.8	-93.54	-7,865.9	1,733.8	709.2	572.1	137.12	5.172	
20,500.0	12,404.0	19,741.7	12,374.1	72.7	65.7	-93.53	-7,992.5	1,733.2	708.0	571.3	136.76	5.177	
20,600.0	12,404.0	19,639.2	12,372.6	73.5	64.9	-93.43	-8,094.9	1,731.0	705.2	568.4	136.81	5.155	
20,700.0	12,404.0	19,523.2	12,373.5	74.3	63.9	-93.53	-8,210.8	1,726.0	700.2	563.7	136.57	5.127	
20,800.0	12,404.0	19,434.6	12,373.8	75.2	63.2	-93.57	-8,299.4	1,721.9	695.0	558.1	136.95	5.075	
20,900.0	12,404.0	19,348.4	12,375.0	76.0	62.4	-93.69	-8,385.5	1,720.2	692.4	555.1	137.36	5.041	
21,000.0	12,404.0	19,248.0	12,377.5	76.8	61.6	-93.91	-8,485.9	1,718.4	690.2	552.7	137.50	5.019	
21,100.0	12,404.0	19,159.2	12,380.1	77.7	60.9	-94.13	-8,574.6	1,717.4	688.7	550.8	137.86	4.996	
21,116.6	12,404.0	19,145.7	12,380.6	77.8	60.7	-94.17	-8,588.2	1,717.5	688.6	550.7	137.93	4.993	
21,200.0	12,404.0	19,070.6	12,384.2	78.5	60.1	-94.47	-8,663.1	1,718.5	689.4	551.3	138.18	4.989	
21,300.0	12,404.0	18,971.9	12,388.0	79.4	59.3	-94.78	-8,761.7	1,719.6	690.2	551.8	138.40	4.987	
21,400.0	12,404.0	18,886.8	12,390.7	80.2	58.6	-94.98	-8,846.8	1,722.3	693.0	554.3	138.75	4.995	

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 701H
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 701H	**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: BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 701H - ST01 - ST01

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 11808-MWD+IFR1+FDIR

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
21,500.0	12,404.0	18,783.5	12,392.3	81.0	57.7	-95.09	-8,950.0	1,726.2	696.3	557.3	138.98	5.010	
21,600.0	12,404.0	18,648.1	12,391.5	81.9	56.6	-95.01	-9,085.3	1,729.6	698.5	559.7	138.85	5.031	
21,700.0	12,404.0	18,547.5	12,392.1	82.7	55.7	-95.08	-9,185.9	1,727.3	695.6	556.5	139.15	4.999	
21,800.0	12,404.0	18,451.9	12,392.6	83.6	54.9	-95.14	-9,281.4	1,726.0	693.7	554.1	139.54	4.971	
21,900.0	12,404.0	18,324.7	12,392.4	84.4	53.9	-95.15	-9,408.6	1,721.9	689.7	550.3	139.38	4.948	
22,000.0	12,404.0	18,238.7	12,390.9	85.3	53.2	-95.06	-9,494.6	1,718.9	685.4	545.3	140.06	4.893	
22,100.0	12,404.0	18,153.0	12,386.3	86.1	52.5	-94.69	-9,580.1	1,717.6	682.8	542.0	140.73	4.852	
22,140.6	12,404.0	18,120.9	12,383.9	86.4	52.2	-94.49	-9,612.1	1,717.7	682.4	541.4	141.03	4.839	
22,200.0	12,404.0	18,078.2	12,381.1	86.9	51.9	-94.25	-9,654.6	1,718.7	683.2	541.7	141.48	4.829 SF	
22,300.0	12,404.0	18,004.1	12,377.2	87.8	51.3	-93.90	-9,728.6	1,722.7	687.6	545.5	142.05	4.840	
22,400.0	12,404.0	17,914.9	12,376.1	88.6	50.5	-93.78	-9,817.4	1,730.2	695.1	552.6	142.50	4.878	
22,500.0	12,404.0	17,813.4	12,377.2	89.5	49.7	-93.82	-9,918.6	1,738.4	702.6	559.7	142.95	4.915	
22,600.0	12,404.0	17,640.9	12,383.2	90.3	48.3	-94.29	-10,090.6	1,742.9	704.7	561.9	142.84	4.934	
22,700.0	12,404.0	17,546.9	12,385.9	91.2	47.5	-94.52	-10,184.5	1,741.4	702.6	559.2	143.41	4.899	
22,712.9	12,404.0	17,533.9	12,385.8	91.3	47.4	-94.52	-10,197.6	1,741.2	702.4	558.9	143.48	4.895	
22,762.9	12,404.0	17,483.2	12,384.6	91.7	47.0	-94.43	-10,248.3	1,740.7	701.4	557.6	143.74	4.880	
22,763.3	12,404.0	17,482.7	12,384.6	91.7	47.0	-94.42	-10,248.7	1,740.7	701.4	557.6	143.73	4.880	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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: REDTAIL FED COM PROJECT - CUERVO FEDERAL 23H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 139-r.5 MWD

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
9,500.0	9,398.1	14,280.0	9,850.1	16.3	77.2	60.87	641.1	1,723.6	969.7	879.2	90.50	10.715	
9,600.0	9,498.1	14,280.0	9,850.1	16.4	77.2	60.87	641.1	1,723.6	927.6	834.5	93.12	9.961	
9,700.0	9,598.1	14,280.0	9,850.1	16.5	77.2	60.87	641.1	1,723.6	894.7	799.2	95.46	9.372	
9,800.0	9,698.1	14,280.0	9,850.1	16.5	77.2	60.87	641.1	1,723.6	872.0	774.7	97.35	8.958	
9,900.0	9,798.1	14,280.0	9,850.1	16.6	77.2	60.87	641.1	1,723.6	860.5	761.9	98.59	8.728	
9,950.0	9,848.1	14,280.0	9,850.1	16.6	77.2	60.87	641.1	1,723.6	859.0	760.1	98.93	8.683	CC, ES, SF
10,000.0	9,898.1	14,280.0	9,850.1	16.6	77.2	60.87	641.1	1,723.6	860.5	761.4	99.08	8.685	
10,100.0	9,998.1	14,280.0	9,850.1	16.7	77.2	60.87	641.1	1,723.6	872.0	773.2	98.78	8.828	
10,200.0	10,098.1	14,280.0	9,850.1	16.8	77.2	60.87	641.1	1,723.6	894.7	796.9	97.80	9.148	
10,300.0	10,198.1	14,280.0	9,850.1	16.8	77.2	60.87	641.1	1,723.6	927.6	831.3	96.28	9.635	
10,400.0	10,298.1	14,280.0	9,850.1	16.9	77.2	60.87	641.1	1,723.6	969.8	875.4	94.40	10.273	

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

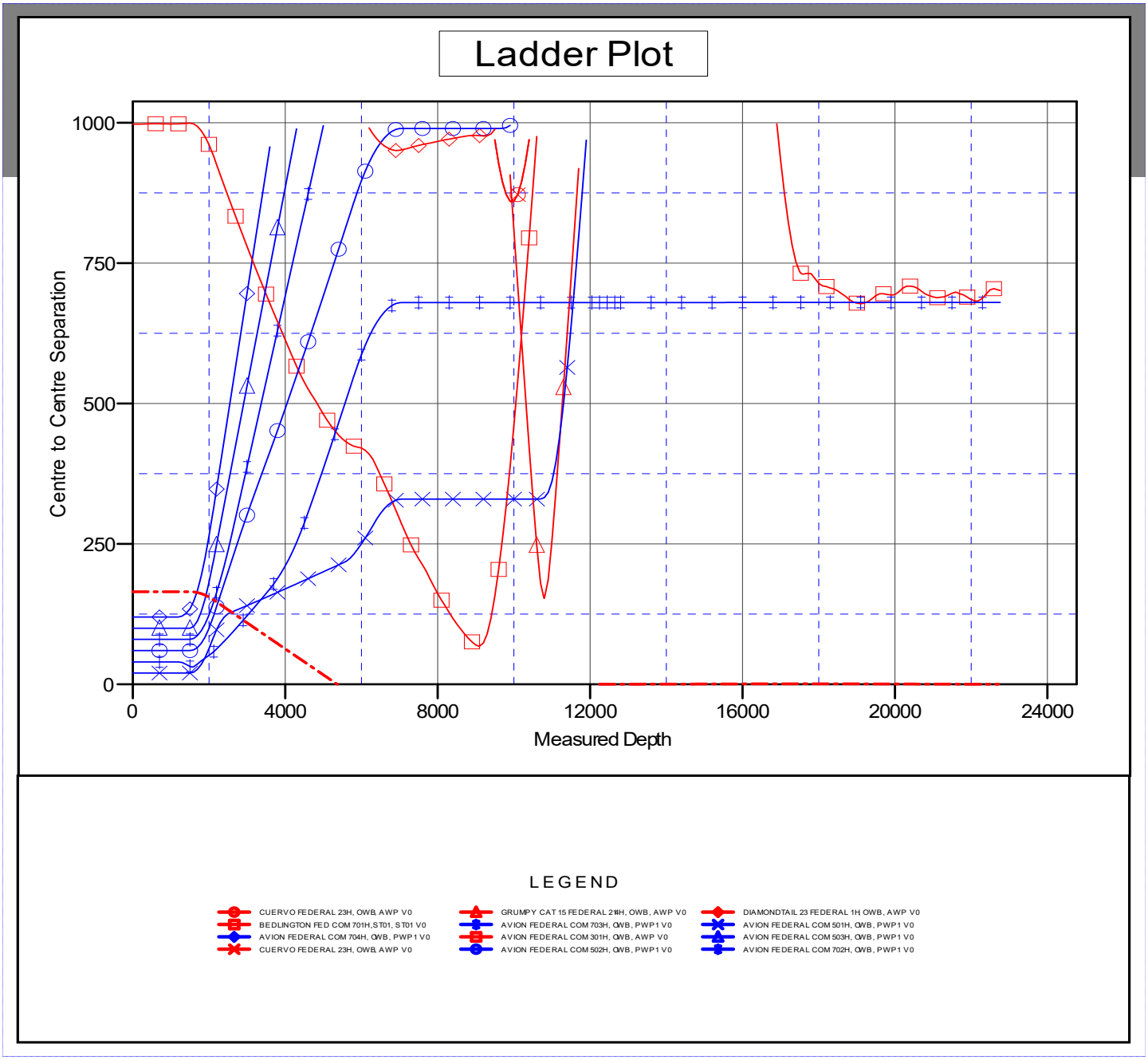
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 701H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



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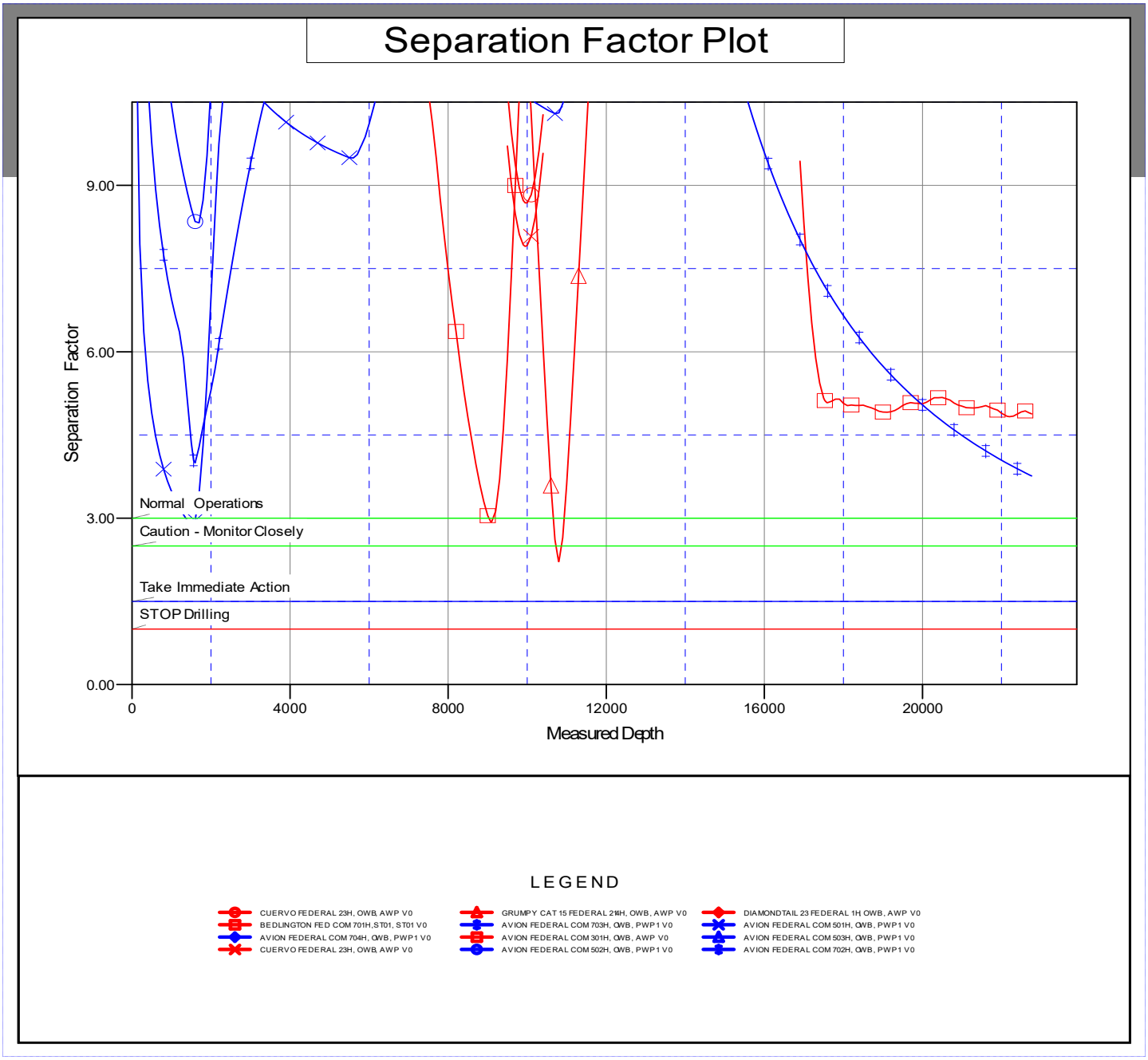
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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 701H
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 701H

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 701H
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 701H	**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 701H

Well Position	**+N/-S**	0.0 usft	**Northing:**	472,260.60 usft	**Latitude:**	32° 17' 47.591 N
	+E/-W	0.0 usft	**Easting:**	708,767.20 usft	**Longitude:**	103° 39' 27.729 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	47,291.70750929

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	174.19

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

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp	
2	1,500.0	12,028.4	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG ·	
3	12,028.4	22,762.9	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG ·	

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,125.0	12.50	77.10	2,120.0	15.2	66.2	2.00	2.00	0.00	77.10	
5,797.0	12.50	77.10	5,705.0	192.6	840.8	0.00	0.00	0.00	0.00	
7,046.9	0.00	0.00	6,945.0	222.9	973.2	1.00	-1.00	0.00	180.00	
12,028.4	0.00	0.00	11,926.5	222.9	973.2	0.00	0.00	0.00	0.00	
12,778.4	90.00	179.63	12,404.0	-254.6	976.3	12.00	12.00	23.95	179.63	
17,531.3	90.00	179.63	12,404.0	-5,007.4	1,007.3	0.00	0.00	0.00	0.00	
22,712.9	90.00	179.63	12,404.0	-10,188.8	1,041.1	0.00	0.00	0.00	0.00	
22,762.9	90.00	179.63	12,404.0	-10,238.8	1,041.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	2.00	77.10	1,600.0	0.4	1.7	-0.2	2.00	2.00	0.00
1,700.0	4.00	77.10	1,699.8	1.6	6.8	-0.9	2.00	2.00	0.00
1,800.0	6.00	77.10	1,799.5	3.5	15.3	-1.9	2.00	2.00	0.00
1,900.0	8.00	77.10	1,898.7	6.2	27.2	-3.4	2.00	2.00	0.00
2,000.0	10.00	77.10	1,997.5	9.7	42.4	-5.4	2.00	2.00	0.00
2,100.0	12.00	77.10	2,095.6	14.0	61.0	-7.7	2.00	2.00	0.00
2,125.0	12.50	77.10	2,120.0	15.2	66.2	-8.4	2.00	2.00	0.00
2,200.0	12.50	77.10	2,193.3	18.8	82.0	-10.4	0.00	0.00	0.00
2,300.0	12.50	77.10	2,290.9	23.6	103.1	-13.1	0.00	0.00	0.00
2,400.0	12.50	77.10	2,388.5	28.4	124.2	-15.7	0.00	0.00	0.00
2,500.0	12.50	77.10	2,486.2	33.3	145.3	-18.4	0.00	0.00	0.00
2,600.0	12.50	77.10	2,583.8	38.1	166.4	-21.1	0.00	0.00	0.00
2,700.0	12.50	77.10	2,681.4	42.9	187.5	-23.8	0.00	0.00	0.00
2,800.0	12.50	77.10	2,779.1	47.8	208.6	-26.4	0.00	0.00	0.00
2,900.0	12.50	77.10	2,876.7	52.6	229.7	-29.1	0.00	0.00	0.00
3,000.0	12.50	77.10	2,974.3	57.4	250.8	-31.8	0.00	0.00	0.00
3,100.0	12.50	77.10	3,071.9	62.3	271.9	-34.4	0.00	0.00	0.00
3,200.0	12.50	77.10	3,169.6	67.1	293.0	-37.1	0.00	0.00	0.00
3,300.0	12.50	77.10	3,267.2	71.9	314.1	-39.8	0.00	0.00	0.00
3,400.0	12.50	77.10	3,364.8	76.8	335.2	-42.5	0.00	0.00	0.00
3,500.0	12.50	77.10	3,462.5	81.6	356.3	-45.1	0.00	0.00	0.00
3,600.0	12.50	77.10	3,560.1	86.4	377.4	-47.8	0.00	0.00	0.00
3,700.0	12.50	77.10	3,657.7	91.3	398.5	-50.5	0.00	0.00	0.00
3,800.0	12.50	77.10	3,755.4	96.1	419.6	-53.1	0.00	0.00	0.00
3,900.0	12.50	77.10	3,853.0	100.9	440.6	-55.8	0.00	0.00	0.00
4,000.0	12.50	77.10	3,950.6	105.8	461.7	-58.5	0.00	0.00	0.00
4,100.0	12.50	77.10	4,048.2	110.6	482.8	-61.2	0.00	0.00	0.00
4,200.0	12.50	77.10	4,145.9	115.4	503.9	-63.8	0.00	0.00	0.00
4,300.0	12.50	77.10	4,243.5	120.3	525.0	-66.5	0.00	0.00	0.00
4,400.0	12.50	77.10	4,341.1	125.1	546.1	-69.2	0.00	0.00	0.00
4,500.0	12.50	77.10	4,438.8	129.9	567.2	-71.9	0.00	0.00	0.00
4,600.0	12.50	77.10	4,536.4	134.7	588.3	-74.5	0.00	0.00	0.00
4,700.0	12.50	77.10	4,634.0	139.6	609.4	-77.2	0.00	0.00	0.00
4,800.0	12.50	77.10	4,731.7	144.4	630.5	-79.9	0.00	0.00	0.00
4,900.0	12.50	77.10	4,829.3	149.2	651.6	-82.5	0.00	0.00	0.00
5,000.0	12.50	77.10	4,926.9	154.1	672.7	-85.2	0.00	0.00	0.00
5,100.0	12.50	77.10	5,024.5	158.9	693.8	-87.9	0.00	0.00	0.00
5,200.0	12.50	77.10	5,122.2	163.7	714.9	-90.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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)
5,300.0	12.50	77.10	5,219.8	168.6	736.0	-93.2	0.00	0.00	0.00
5,400.0	12.50	77.10	5,317.4	173.4	757.1	-95.9	0.00	0.00	0.00
5,500.0	12.50	77.10	5,415.1	178.2	778.2	-98.6	0.00	0.00	0.00
5,600.0	12.50	77.10	5,512.7	183.1	799.3	-101.2	0.00	0.00	0.00
5,700.0	12.50	77.10	5,610.3	187.9	820.4	-103.9	0.00	0.00	0.00
5,797.0	12.50	77.10	5,705.0	192.6	840.8	-106.5	0.00	0.00	0.00
5,800.0	12.47	77.10	5,708.0	192.7	841.5	-106.6	1.00	-1.00	0.00
5,900.0	11.47	77.10	5,805.8	197.4	861.7	-109.2	1.00	-1.00	0.00
6,000.0	10.47	77.10	5,904.0	201.6	880.2	-111.5	1.00	-1.00	0.00
6,100.0	9.47	77.10	6,002.4	205.5	897.1	-113.6	1.00	-1.00	0.00
6,200.0	8.47	77.10	6,101.2	209.0	912.3	-115.6	1.00	-1.00	0.00
6,300.0	7.47	77.10	6,200.2	212.0	925.8	-117.3	1.00	-1.00	0.00
6,400.0	6.47	77.10	6,299.5	214.8	937.6	-118.8	1.00	-1.00	0.00
6,500.0	5.47	77.10	6,399.0	217.1	947.8	-120.1	1.00	-1.00	0.00
6,600.0	4.47	77.10	6,498.6	219.0	956.2	-121.1	1.00	-1.00	0.00
6,700.0	3.47	77.10	6,598.3	220.6	963.0	-122.0	1.00	-1.00	0.00
6,800.0	2.47	77.10	6,698.2	221.7	968.0	-122.6	1.00	-1.00	0.00
6,900.0	1.47	77.10	6,798.2	222.5	971.4	-123.0	1.00	-1.00	0.00
7,000.0	0.47	77.10	6,898.1	222.9	973.0	-123.3	1.00	-1.00	0.00
7,046.9	0.00	0.00	6,945.0	222.9	973.2	-123.3	1.00	-1.00	0.00
7,100.0	0.00	0.00	6,998.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,098.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,198.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,298.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,398.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,498.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,598.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,698.1	222.9	973.2	-123.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,798.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,898.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,998.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,098.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,198.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,298.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,398.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,498.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,598.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,698.1	222.9	973.2	-123.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,798.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,898.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,998.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,098.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,198.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,298.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,398.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,498.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,598.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,698.1	222.9	973.2	-123.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,798.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,898.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,100.0	0.00	0.00	9,998.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,098.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,198.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,298.1	222.9	973.2	-123.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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)
10,500.0	0.00	0.00	10,398.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,498.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,598.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,698.1	222.9	973.2	-123.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,798.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,898.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,998.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,098.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,198.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,298.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,398.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,498.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,598.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,698.1	222.9	973.2	-123.3	0.00	0.00	0.00
11,900.0	0.00	0.00	11,798.1	222.9	973.2	-123.3	0.00	0.00	0.00
12,000.0	0.00	0.00	11,898.1	222.9	973.2	-123.3	0.00	0.00	0.00
12,028.4	0.00	0.00	11,926.5	222.9	973.2	-123.3	0.00	0.00	0.00
12,050.0	2.59	179.63	11,948.1	222.4	973.2	-122.8	12.00	12.00	0.00
12,075.0	5.59	179.63	11,973.1	220.6	973.2	-121.0	12.00	12.00	0.00
12,100.0	8.59	179.63	11,997.9	217.5	973.2	-117.9	12.00	12.00	0.00
12,125.0	11.59	179.63	12,022.5	213.2	973.3	-113.6	12.00	12.00	0.00
12,150.0	14.59	179.63	12,046.8	207.5	973.3	-107.9	12.00	12.00	0.00
12,175.0	17.59	179.63	12,070.8	200.6	973.3	-101.0	12.00	12.00	0.00
12,200.0	20.59	179.63	12,094.5	192.4	973.4	-92.9	12.00	12.00	0.00
12,225.0	23.59	179.63	12,117.6	183.0	973.5	-83.6	12.00	12.00	0.00
12,250.0	26.59	179.63	12,140.3	172.4	973.5	-73.0	12.00	12.00	0.00
12,275.0	29.59	179.63	12,162.3	160.6	973.6	-61.3	12.00	12.00	0.00
12,300.0	32.59	179.63	12,183.7	147.7	973.7	-48.4	12.00	12.00	0.00
12,325.0	35.59	179.63	12,204.4	133.7	973.8	-34.5	12.00	12.00	0.00
12,350.0	38.59	179.63	12,224.4	118.6	973.9	-19.5	12.00	12.00	0.00
12,375.0	41.59	179.63	12,243.5	102.5	974.0	-3.4	12.00	12.00	0.00
12,400.0	44.59	179.63	12,261.7	85.5	974.1	13.6	12.00	12.00	0.00
12,425.0	47.59	179.63	12,279.1	67.4	974.2	31.5	12.00	12.00	0.00
12,450.0	50.59	179.63	12,295.4	48.6	974.3	50.3	12.00	12.00	0.00
12,475.0	53.59	179.63	12,310.8	28.8	974.5	69.9	12.00	12.00	0.00
12,500.0	56.59	179.63	12,325.1	8.3	974.6	90.3	12.00	12.00	0.00
12,525.0	59.59	179.63	12,338.3	-12.9	974.7	111.5	12.00	12.00	0.00
12,550.0	62.59	179.63	12,350.4	-34.8	974.9	133.2	12.00	12.00	0.00
12,575.0	65.59	179.63	12,361.3	-57.3	975.0	155.6	12.00	12.00	0.00
12,600.0	68.59	179.63	12,371.1	-80.3	975.2	178.5	12.00	12.00	0.00
12,625.0	71.59	179.63	12,379.6	-103.8	975.3	201.9	12.00	12.00	0.00
12,650.0	74.59	179.63	12,386.8	-127.7	975.5	225.8	12.00	12.00	0.00
12,675.0	77.59	179.63	12,392.8	-152.0	975.6	249.9	12.00	12.00	0.00
12,700.0	80.59	179.63	12,397.6	-176.5	975.8	274.3	12.00	12.00	0.00
12,725.0	83.59	179.63	12,401.0	-201.3	976.0	299.0	12.00	12.00	0.00
12,750.0	86.59	179.63	12,403.2	-226.2	976.1	323.8	12.00	12.00	0.00
12,775.0	89.59	179.63	12,404.0	-251.2	976.3	348.7	12.00	12.00	0.00
12,778.4	90.00	179.63	12,404.0	-254.6	976.3	352.0	12.00	12.00	0.00
12,800.0	90.00	179.63	12,404.0	-276.2	976.5	373.5	0.00	0.00	0.00
12,900.0	90.00	179.63	12,404.0	-376.2	977.1	473.1	0.00	0.00	0.00
13,000.0	90.00	179.63	12,404.0	-476.2	977.8	572.6	0.00	0.00	0.00
13,100.0	90.00	179.63	12,404.0	-576.1	978.4	672.2	0.00	0.00	0.00
13,200.0	90.00	179.63	12,404.0	-676.1	979.1	771.7	0.00	0.00	0.00
13,300.0	90.00	179.63	12,404.0	-776.1	979.7	871.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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	12,404.0	-876.1	980.4	970.8	0.00	0.00	0.00
13,500.0	90.00	179.63	12,404.0	-976.1	981.0	1,070.4	0.00	0.00	0.00
13,600.0	90.00	179.63	12,404.0	-1,076.1	981.7	1,169.9	0.00	0.00	0.00
13,700.0	90.00	179.63	12,404.0	-1,176.1	982.3	1,269.5	0.00	0.00	0.00
13,800.0	90.00	179.63	12,404.0	-1,276.1	983.0	1,369.1	0.00	0.00	0.00
13,900.0	90.00	179.63	12,404.0	-1,376.1	983.6	1,468.6	0.00	0.00	0.00
14,000.0	90.00	179.63	12,404.0	-1,476.1	984.3	1,568.2	0.00	0.00	0.00
14,100.0	90.00	179.63	12,404.0	-1,576.1	984.9	1,667.7	0.00	0.00	0.00
14,200.0	90.00	179.63	12,404.0	-1,676.1	985.6	1,767.3	0.00	0.00	0.00
14,300.0	90.00	179.63	12,404.0	-1,776.1	986.2	1,866.8	0.00	0.00	0.00
14,400.0	90.00	179.63	12,404.0	-1,876.1	986.9	1,966.4	0.00	0.00	0.00
14,500.0	90.00	179.63	12,404.0	-1,976.1	987.5	2,065.9	0.00	0.00	0.00
14,600.0	90.00	179.63	12,404.0	-2,076.1	988.2	2,165.5	0.00	0.00	0.00
14,700.0	90.00	179.63	12,404.0	-2,176.1	988.8	2,265.0	0.00	0.00	0.00
14,800.0	90.00	179.63	12,404.0	-2,276.1	989.5	2,364.6	0.00	0.00	0.00
14,900.0	90.00	179.63	12,404.0	-2,376.1	990.1	2,464.1	0.00	0.00	0.00
15,000.0	90.00	179.63	12,404.0	-2,476.1	990.8	2,563.7	0.00	0.00	0.00
15,100.0	90.00	179.63	12,404.0	-2,576.1	991.4	2,663.2	0.00	0.00	0.00
15,200.0	90.00	179.63	12,404.0	-2,676.1	992.1	2,762.8	0.00	0.00	0.00
15,300.0	90.00	179.63	12,404.0	-2,776.1	992.8	2,862.3	0.00	0.00	0.00
15,400.0	90.00	179.63	12,404.0	-2,876.1	993.4	2,961.9	0.00	0.00	0.00
15,500.0	90.00	179.63	12,404.0	-2,976.1	994.1	3,061.4	0.00	0.00	0.00
15,600.0	90.00	179.63	12,404.0	-3,076.1	994.7	3,161.0	0.00	0.00	0.00
15,700.0	90.00	179.63	12,404.0	-3,176.1	995.4	3,260.5	0.00	0.00	0.00
15,800.0	90.00	179.63	12,404.0	-3,276.1	996.0	3,360.1	0.00	0.00	0.00
15,900.0	90.00	179.63	12,404.0	-3,376.1	996.7	3,459.6	0.00	0.00	0.00
16,000.0	90.00	179.63	12,404.0	-3,476.1	997.3	3,559.2	0.00	0.00	0.00
16,100.0	90.00	179.63	12,404.0	-3,576.1	998.0	3,658.7	0.00	0.00	0.00
16,200.0	90.00	179.63	12,404.0	-3,676.1	998.6	3,758.3	0.00	0.00	0.00
16,300.0	90.00	179.63	12,404.0	-3,776.1	999.3	3,857.8	0.00	0.00	0.00
16,400.0	90.00	179.63	12,404.0	-3,876.1	999.9	3,957.4	0.00	0.00	0.00
16,500.0	90.00	179.63	12,404.0	-3,976.1	1,000.6	4,056.9	0.00	0.00	0.00
16,600.0	90.00	179.63	12,404.0	-4,076.1	1,001.2	4,156.5	0.00	0.00	0.00
16,700.0	90.00	179.63	12,404.0	-4,176.1	1,001.9	4,256.0	0.00	0.00	0.00
16,800.0	90.00	179.63	12,404.0	-4,276.1	1,002.5	4,355.6	0.00	0.00	0.00
16,900.0	90.00	179.63	12,404.0	-4,376.1	1,003.2	4,455.1	0.00	0.00	0.00
17,000.0	90.00	179.63	12,404.0	-4,476.1	1,003.8	4,554.7	0.00	0.00	0.00
17,100.0	90.00	179.63	12,404.0	-4,576.1	1,004.5	4,654.2	0.00	0.00	0.00
17,200.0	90.00	179.63	12,404.0	-4,676.1	1,005.1	4,753.8	0.00	0.00	0.00
17,300.0	90.00	179.63	12,404.0	-4,776.1	1,005.8	4,853.3	0.00	0.00	0.00
17,400.0	90.00	179.63	12,404.0	-4,876.1	1,006.4	4,952.9	0.00	0.00	0.00
17,500.0	90.00	179.63	12,404.0	-4,976.1	1,007.1	5,052.4	0.00	0.00	0.00
17,531.3	90.00	179.63	12,404.0	-5,007.4	1,007.3	5,083.6	0.00	0.00	0.00
17,600.0	90.00	179.63	12,404.0	-5,076.1	1,007.7	5,152.0	0.00	0.00	0.00
17,700.0	90.00	179.63	12,404.0	-5,176.1	1,008.4	5,251.5	0.00	0.00	0.00
17,800.0	90.00	179.63	12,404.0	-5,276.0	1,009.1	5,351.1	0.00	0.00	0.00
17,900.0	90.00	179.63	12,404.0	-5,376.0	1,009.7	5,450.6	0.00	0.00	0.00
18,000.0	90.00	179.63	12,404.0	-5,476.0	1,010.4	5,550.2	0.00	0.00	0.00
18,100.0	90.00	179.63	12,404.0	-5,576.0	1,011.0	5,649.7	0.00	0.00	0.00
18,200.0	90.00	179.63	12,404.0	-5,676.0	1,011.7	5,749.3	0.00	0.00	0.00
18,300.0	90.00	179.63	12,404.0	-5,776.0	1,012.3	5,848.8	0.00	0.00	0.00
18,400.0	90.00	179.63	12,404.0	-5,876.0	1,013.0	5,948.4	0.00	0.00	0.00
18,500.0	90.00	179.63	12,404.0	-5,976.0	1,013.6	6,047.9	0.00	0.00	0.00
18,600.0	90.00	179.63	12,404.0	-6,076.0	1,014.3	6,147.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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)
18,700.0	90.00	179.63	12,404.0	-6,176.0	1,014.9	6,247.0	0.00	0.00	0.00
18,800.0	90.00	179.63	12,404.0	-6,276.0	1,015.6	6,346.6	0.00	0.00	0.00
18,900.0	90.00	179.63	12,404.0	-6,376.0	1,016.2	6,446.1	0.00	0.00	0.00
19,000.0	90.00	179.63	12,404.0	-6,476.0	1,016.9	6,545.7	0.00	0.00	0.00
19,100.0	90.00	179.63	12,404.0	-6,576.0	1,017.5	6,645.2	0.00	0.00	0.00
19,200.0	90.00	179.63	12,404.0	-6,676.0	1,018.2	6,744.8	0.00	0.00	0.00
19,300.0	90.00	179.63	12,404.0	-6,776.0	1,018.8	6,844.3	0.00	0.00	0.00
19,400.0	90.00	179.63	12,404.0	-6,876.0	1,019.5	6,943.9	0.00	0.00	0.00
19,500.0	90.00	179.63	12,404.0	-6,976.0	1,020.1	7,043.4	0.00	0.00	0.00
19,600.0	90.00	179.63	12,404.0	-7,076.0	1,020.8	7,143.0	0.00	0.00	0.00
19,700.0	90.00	179.63	12,404.0	-7,176.0	1,021.4	7,242.5	0.00	0.00	0.00
19,800.0	90.00	179.63	12,404.0	-7,276.0	1,022.1	7,342.1	0.00	0.00	0.00
19,900.0	90.00	179.63	12,404.0	-7,376.0	1,022.7	7,441.6	0.00	0.00	0.00
20,000.0	90.00	179.63	12,404.0	-7,476.0	1,023.4	7,541.2	0.00	0.00	0.00
20,100.0	90.00	179.63	12,404.0	-7,576.0	1,024.0	7,640.7	0.00	0.00	0.00
20,200.0	90.00	179.63	12,404.0	-7,676.0	1,024.7	7,740.3	0.00	0.00	0.00
20,300.0	90.00	179.63	12,404.0	-7,776.0	1,025.4	7,839.8	0.00	0.00	0.00
20,400.0	90.00	179.63	12,404.0	-7,876.0	1,026.0	7,939.4	0.00	0.00	0.00
20,500.0	90.00	179.63	12,404.0	-7,976.0	1,026.7	8,038.9	0.00	0.00	0.00
20,600.0	90.00	179.63	12,404.0	-8,076.0	1,027.3	8,138.5	0.00	0.00	0.00
20,700.0	90.00	179.63	12,404.0	-8,176.0	1,028.0	8,238.0	0.00	0.00	0.00
20,800.0	90.00	179.63	12,404.0	-8,276.0	1,028.6	8,337.6	0.00	0.00	0.00
20,900.0	90.00	179.63	12,404.0	-8,376.0	1,029.3	8,437.1	0.00	0.00	0.00
21,000.0	90.00	179.63	12,404.0	-8,476.0	1,029.9	8,536.7	0.00	0.00	0.00
21,100.0	90.00	179.63	12,404.0	-8,576.0	1,030.6	8,636.2	0.00	0.00	0.00
21,200.0	90.00	179.63	12,404.0	-8,676.0	1,031.2	8,735.8	0.00	0.00	0.00
21,300.0	90.00	179.63	12,404.0	-8,776.0	1,031.9	8,835.3	0.00	0.00	0.00
21,400.0	90.00	179.63	12,404.0	-8,876.0	1,032.5	8,934.9	0.00	0.00	0.00
21,500.0	90.00	179.63	12,404.0	-8,976.0	1,033.2	9,034.4	0.00	0.00	0.00
21,600.0	90.00	179.63	12,404.0	-9,076.0	1,033.8	9,134.0	0.00	0.00	0.00
21,700.0	90.00	179.63	12,404.0	-9,176.0	1,034.5	9,233.5	0.00	0.00	0.00
21,800.0	90.00	179.63	12,404.0	-9,276.0	1,035.1	9,333.1	0.00	0.00	0.00
21,900.0	90.00	179.63	12,404.0	-9,376.0	1,035.8	9,432.6	0.00	0.00	0.00
22,000.0	90.00	179.63	12,404.0	-9,476.0	1,036.4	9,532.2	0.00	0.00	0.00
22,100.0	90.00	179.63	12,404.0	-9,576.0	1,037.1	9,631.7	0.00	0.00	0.00
22,200.0	90.00	179.63	12,404.0	-9,676.0	1,037.7	9,731.3	0.00	0.00	0.00
22,300.0	90.00	179.63	12,404.0	-9,776.0	1,038.4	9,830.8	0.00	0.00	0.00
22,400.0	90.00	179.63	12,404.0	-9,876.0	1,039.0	9,930.4	0.00	0.00	0.00
22,500.0	90.00	179.63	12,404.0	-9,975.9	1,039.7	10,030.0	0.00	0.00	0.00
22,600.0	90.00	179.63	12,404.0	-10,075.9	1,040.3	10,129.5	0.00	0.00	0.00
22,700.0	90.00	179.63	12,404.0	-10,175.9	1,041.0	10,229.1	0.00	0.00	0.00
22,712.9	90.00	179.63	12,404.0	-10,188.8	1,041.1	10,241.9	0.00	0.00	0.00
22,762.9	90.00	179.63	12,404.0	-10,238.8	1,041.4	10,291.6	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well AVION FEDERAL COM 701H
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 701H	**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
TNGT WNDW_100'A x (- plan hits target center - Rectangle (sides W70.0 H100.0 D3,672.0)	12.50	257.10	5,705.0	192.6	840.8	472,453.18	709,608.03	32° 17' 49.444 N	103° 39' 17.919 W
KOP BOX_0'N x 100'S x - plan hits target center - Rectangle (sides W100.0 H100.0 D4,981.5)	0.00	359.63	11,926.5	222.9	973.2	472,483.50	709,740.40	32° 17' 49.736 N	103° 39' 16.375 W
PBHL (AVION FEDERAI - plan hits target center - Rectangle (sides W100.0 H10,412.8 D20.0)	0.00	359.63	12,404.0	-10,238.8	1,041.4	462,021.80	709,808.60	32° 16' 6.207 N	103° 39' 16.351 W
FTP (AVION FEDERAL (- plan misses target center by 164.0usft at 12426.5usft MD (12280.1 TVD, 66.3 N, 974.2 E) - Circle (radius 50.0)	0.00	0.00	12,404.0	173.7	973.6	472,434.30	709,740.80	32° 17' 49.249 N	103° 39' 16.374 W
PPP2 (AVION FEDERAI - plan hits target center - Point	0.00	0.00	12,404.0	-5,007.4	1,007.3	467,253.20	709,774.50	32° 16' 57.977 N	103° 39' 16.363 W
LTP (AVION FEDERAL (- plan hits target center - Point	0.00	0.00	12,404.0	-10,188.8	1,041.1	462,071.80	709,808.30	32° 16' 6.701 N	103° 39' 16.351 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
1,500.0	1,500.0	0.0	0.0	NUDGE @ DLS 2.00
2,125.0	2,120.1	15.2	66.2	HOLD TANGENT
5,797.0	5,705.0	192.6	840.8	END NUDGE
7,046.9	6,945.0	222.9	973.2	HOLD TO CURVE KOP
12,028.4	11,926.5	222.9	973.2	KOP-START DLS 12.00 TFO 179.63
12,778.4	12,404.0	-254.6	976.3	EOC-HOLD
17,531.3	12,404.0	-5,007.4	1,007.3	POI-HOLD
22,712.9	12,404.0	-10,188.8	1,041.1	LTP-HOLD
22,762.9	12,404.0	-10,238.8	1,041.4	TD @ 22762.9 MD / 10291.6 VS

Project:	LEA COUNTY SOUTHEAST
Site:	AVION FEDERAL COM PROJECT
Well:	AVION FEDERAL COM 701H
Wellbore:	OWB
Design:	PWP1
GL:	3702.0
RKB=27ft @ 3729.0usft	

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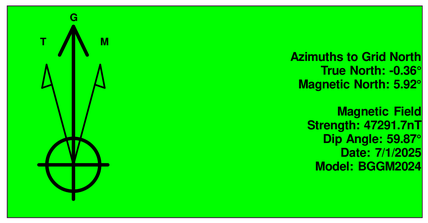
WELL DETAILS: AVION FEDERAL COM 701H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	472260.60	708767.20	32° 17' 47.591 N	103° 39' 27.729 W

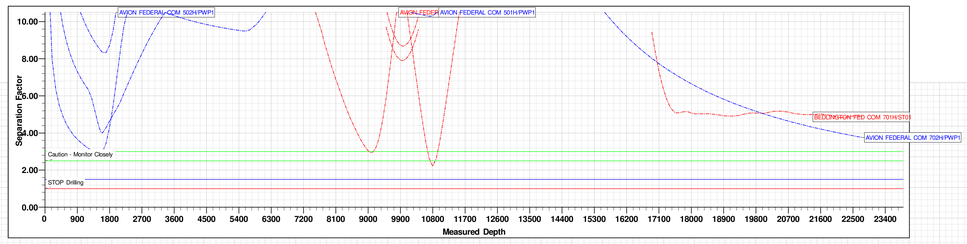


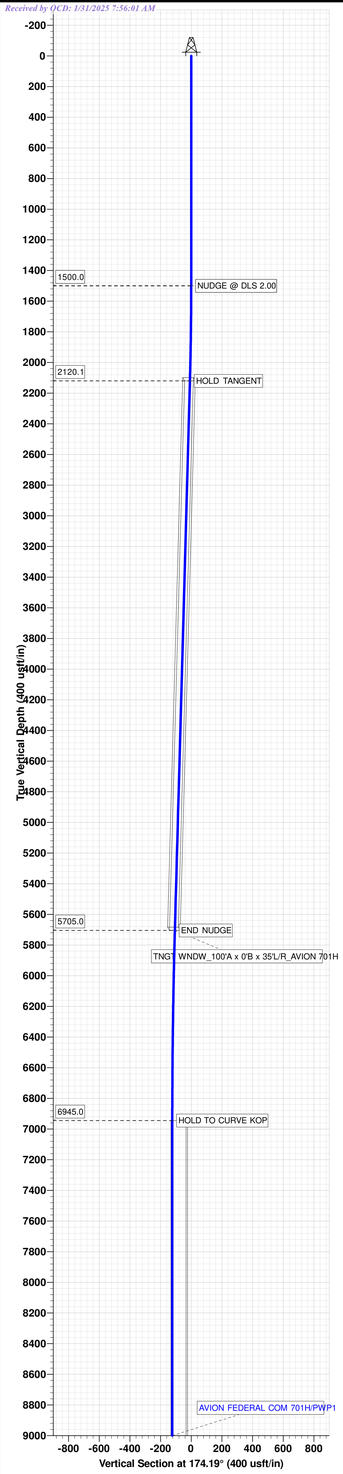
Azimuths to Grid North
True North: -0.36°
Magnetic North: 5.92°

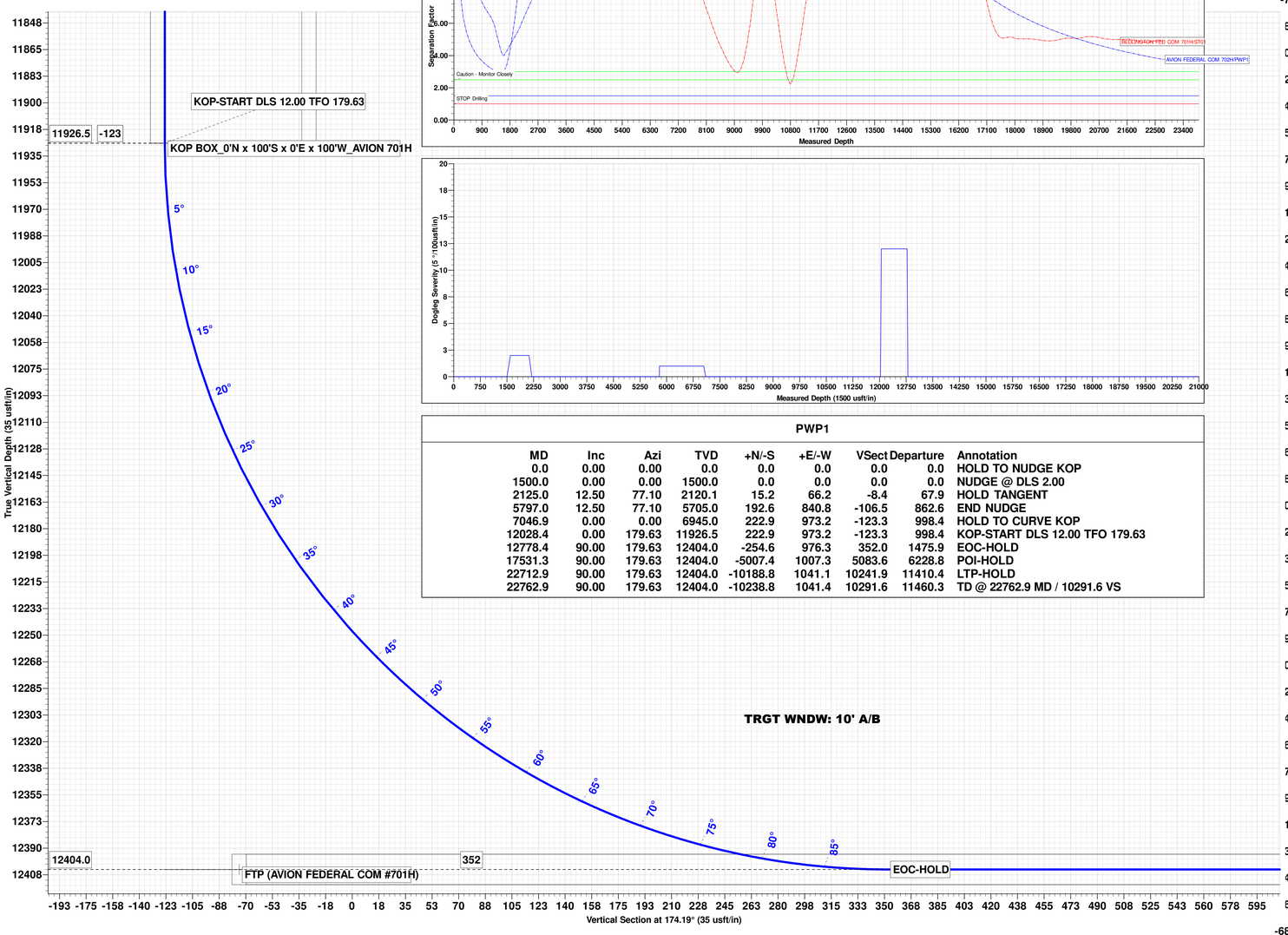
Magnetic Field
Strength: 47291.7nT
Dip Angle: 59.87°
Date: 7/1/2025
Model: BGGM2024

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
TNGT WNDW_100'A x 0'B x 35'L/R_AVION 701H	5705.0	192.6	840.8	472453.18	709608.03	Rectangle (Sides: L100.0 W70.0)
KOP BOX_0'N x 100'S x 0'E x 100'W_AVION 701H	11926.5	222.9	973.2	472483.50	709740.40	Rectangle (Sides: L100.0 W100.0)
FTP (AVION FEDERAL COM #701H)	12404.0	173.7	973.6	472434.30	709740.80	Circle (Radius: 50.0)
LTP (AVION FEDERAL COM #701H)	12404.0	-10188.8	1041.1	462071.80	709808.30	Point
PBHL (AVION FEDERAL COM #701H)	12404.0	-10238.8	1041.4	462021.80	709808.60	Rectangle (Sides: L10412.8 W100.0)
PPP2 (AVION FEDERAL COM #701H)	12404.0	-5007.4	1007.3	467253.20	709774.50	Point

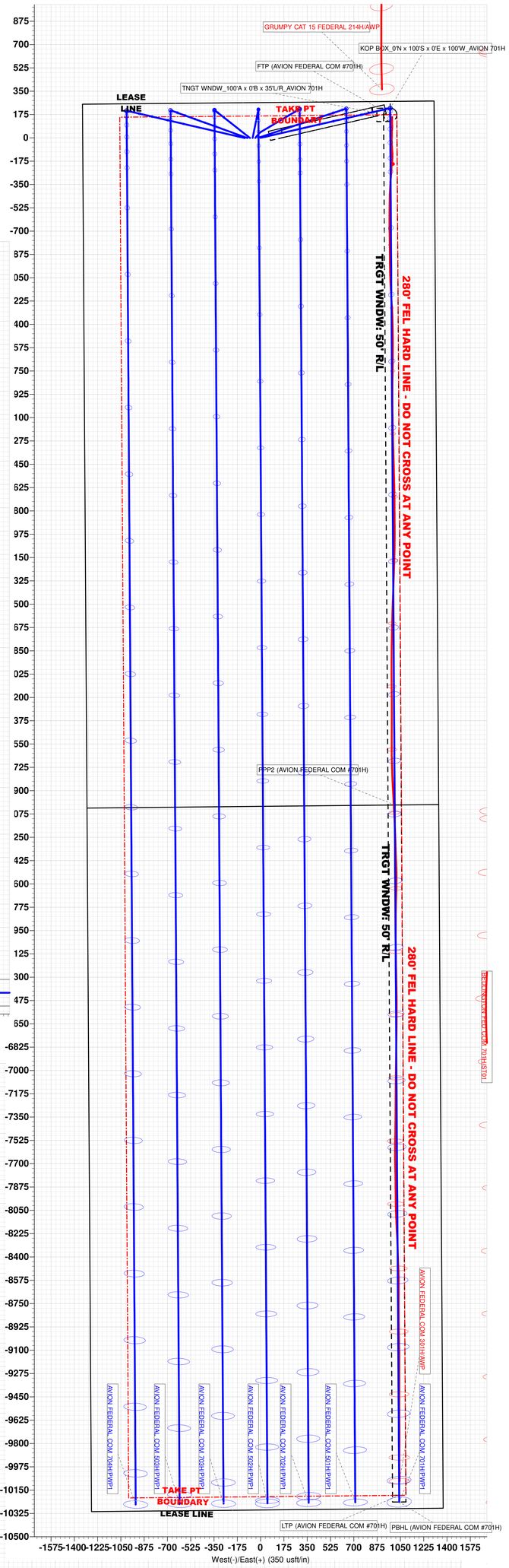


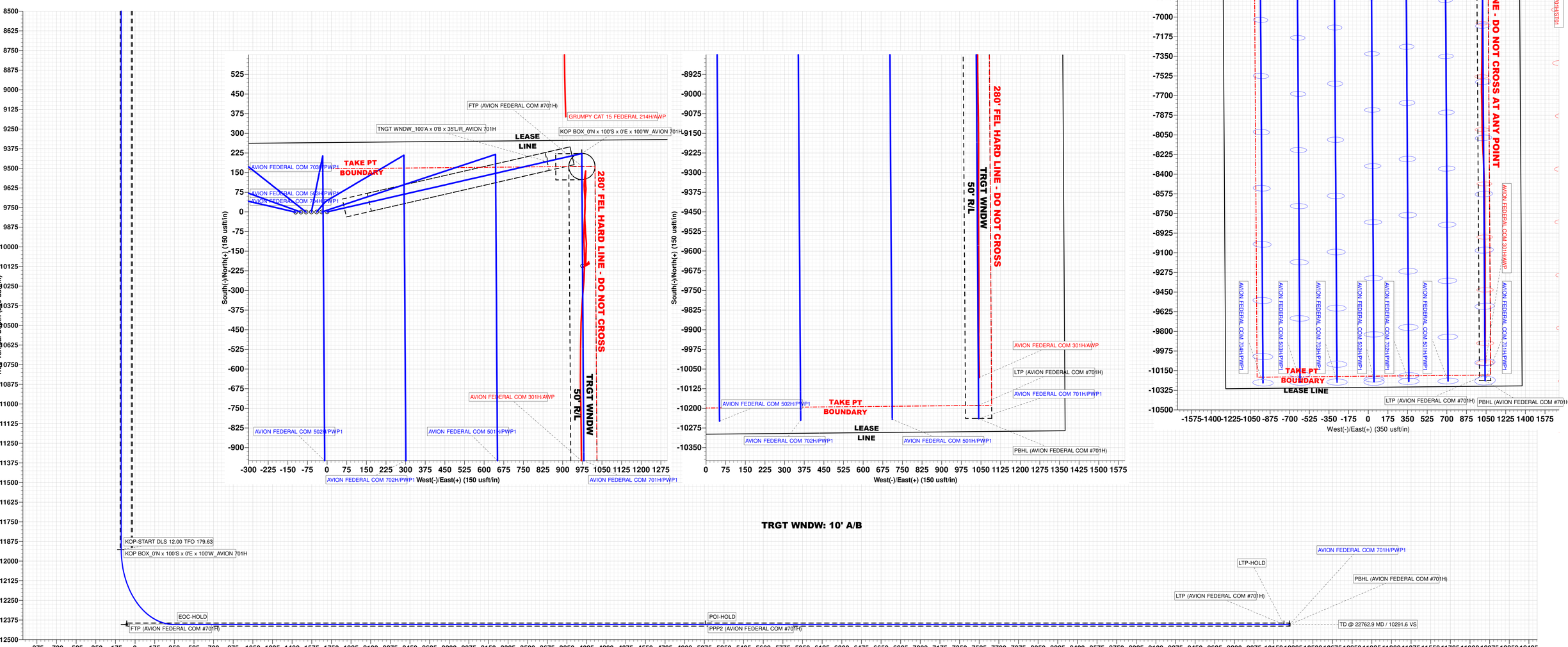




PWP1

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
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	NUDGE @ DLS 2.00
2125.0	12.50	77.10	2120.1	15.2	66.2	-8.4	67.9	HOLD TANGENT
5797.0	12.50	77.10	5705.0	192.6	840.8	-106.5	862.6	END NUDGE
7046.9	0.00	0.00	6945.0	222.9	973.2	-123.3	998.4	HOLD TO CURVE KOP
12028.4	0.00	179.63	11926.5	222.9	973.2	-123.3	998.4	KOP-START DLS 12.00 TFO 179.63
12778.4	90.00	179.63	12404.0	-254.6	976.3	352.0	1475.9	EOC-HOLD
17531.3	90.00	179.63	12404.0	-5007.4	1007.3	5083.6	6228.8	POI-HOLD
22712.9	90.00	179.63	12404.0	-10188.8	1041.1	10241.9	11410.4	LTP-HOLD
22762.9	90.00	179.63	12404.0	-10238.8	1041.4	10291.6	11460.3	TD @ 22762.9 MD / 10291.6 VS





Well Name: AVION FEDERAL COM

Well Location: T23S / R32E / SEC 22 / NWNE / 32.296511 / -103.658381

County or Parish/State: LEA / NM

Well Number: 701H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM88163

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553594

Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2833101

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/21/2025

Time Sundry Submitted: 02:31

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: 325' FNL & 1365' FEL Section 22. T23S. R32E. To: 265' FNL & 1305' FEL Section 22. T23S. R32E. C102 Attached. Drilling: Drilling Program, Directional Program, AC Report and Specs Attached.

NOI Attachments

Procedure Description

AVION_FEDERAL_COM_701H_Updated_New_C102_20250121142646.pdf

AVION_FEDERAL_COM_701H_PWP1_DIR_RPT_20250121142643.pdf

Avion_Fed_Com_701H_Updated_Drilling_Program_for_Sundry_20250121142643.pdf

AVION_FEDERAL_COM_701H_PWP1_AC_RPT_20250121142643.pdf

AVION_FEDERAL_COM_701H_PWP1_WPLOT_20250121142643.pdf

5.500_23_P110_CY_WEDGE_441_08192024_20250121142643.pdf

5.500_23_P110_CY_TXP_BTC_08192024_20250121142640.pdf

Well Name: AVION FEDERAL COM

Well Location: T23S / R32E / SEC 22 / NWNE / 32.296511 / -103.658381

County or Parish/State: LEA / NM

Well Number: 701H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM88163

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553594

Operator: COG OPERATING LLC

Conditions of Approval

Additional

SEC22_T23S_R32E_AVION_FED_COM_Lea__CONOCOPHILLIPS_COMPANY_45567_JS_20250129105417.pdf

AVION_FED_COM_701H_COAs_20250129105417.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 02:45 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

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

Nominal OD	5.500 in.	**Wall Thickness**	0.415 in.
Nominal Weight	23.00 lb/ft	**Plain End Weight**	22.56 lb/ft
Drift	4.545 in.	**OD Tolerance**	API
Nominal ID	4.670 in.		

Performance

Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,530 psi
SMYS	110,000 psi
Collapse Pressure	14,540 psi

Connection Data

Geometry

Connection OD	5.900 in.
Coupling Length	8.714 in.
Connection ID	4.670 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance

Tension Efficiency	90.80 %
Joint Yield Strength	662 x1000 lb
Internal Pressure Capacity	14,530 psi
Compression Efficiency	90.80 %
Compression Strength	662 x1000 lb
Max. Allowable Bending	83.54 °/100 ft
External Pressure Capacity	14,540 psi
Coupling Face Load	172,000 lb

Make-Up Torques

Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb

Operation Limit Torques

Operating Torque	33,000 ft-lb
Yield Torque	39,000 ft-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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	AVION FED COM 701H
LOCATION:	Section 22, T.23 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	(•) None	( ) Secretary	( ) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[x] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[x] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[ ] Break Testing	[x] Offline Cementing	[x] Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1350 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4 inch** in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall

be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.** The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Contingency Bradenhead Squeeze

Operator has proposed to pump down 10-3/4" X 7-5/8 " annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8 " casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

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

☒ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line

must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement

reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 1/29/2025

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

General Information
Phone: (505) 629-6116

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: 427004
	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