Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 210 FNL / 1170 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1222263 / LONG: -103.9331651 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 1310 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1218944 / LONG: -103.9336162 (TVD: 11467 feet, MD: 11590 feet)

BHL: SESW / 200 FSL / 1310 FEL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941358 / LONG: -103.9335243 (TVD: 11471 feet, MD: 21659 feet)

CONFIDENTIAL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

[X] AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-47756	98220	Purple Sage; Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
329794	CABO WABO FEDERAL COM	802H

7 OGRID No.	8 Operator Name	9 Elevation
217955	COG PRODUCTION LLC	3145'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	1170'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	25	25-S	29-E		200'	SOUTH	2066'	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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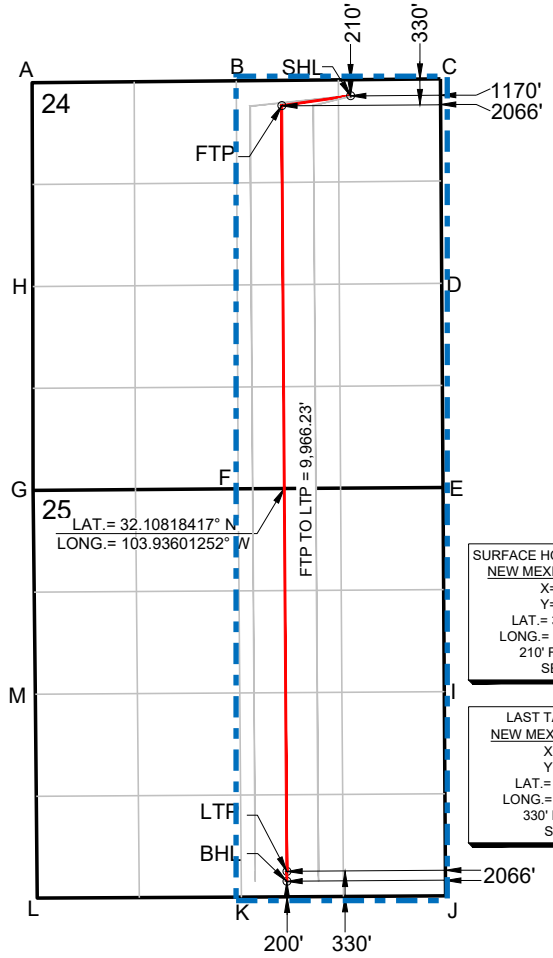

CORNER DATA
NEW MEXICO EAST - NAD 83

A - FOUND IRON PIPE W/ BRASS CAP N:408605.21' E:661074.26'
B - FOUND IRON PIPE W/ BRASS CAP N:408628.83' E:663731.32'
C - FOUND IRON PIPE W/ BRASS. CAP N:408652.38' E:666389.05'
D - FOUND IRON PIPE W/ BRASS CAP N:405993.34' E:666406.44'
E - FOUND IRON PIPE W/ BRASS CAP N:403335.51' E:666423.34'
F - FOUND IRON PIPE W/ BRASS CAP N:403316.17' E:663755.92'
G - FOUND IRON PIPE W/ BRASS CAP N:403297.54' E:661087.89'
H - FOUND IRON PIPE W/ BRASS CAP N:405951.58' E:661081.14'
I - FOUND IRON PIPE W/ BRASS CAP N:400678.65' E:666440.96'
J - FOUND BENT IRON PIPE W/ BRASS CAP N:398021.31' E:666458.45'
K - FOUND IRON PIPE W/ BRASS CAP N:398004.27' E:663799.25'
L - FOUND 5/8" IRON ROD N:397988.59' E:661140.90'
M - FOUND IRON PIPE W/ BRASS CAP N:400643.27' E:661114.85'

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=665220.46
Y=408432.02
LAT.= 32.12222630° N
LONG.= 103.93316514° W
210' FNL, 1170' FEL
SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=664325.28
Y=408304.08
LAT.= 32.12188372° N
LONG.= 103.93605823° W
330' FNL, 2066' FEL
SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=664390.32
Y=398338.06
LAT.= 32.09448756° N
LONG.= 103.93596681° W
330' FSL, 2066' FEL
SECTION 25

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=664391.18
Y=398208.07
LAT.= 32.09413020° N
LONG.= 103.93596559° W
200' FSL, 2066' FEL
SECTION 25

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 10/14/21
Signature Date

Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

8/16/2021

Certificate Number

ConocoPhillips - Cabo Wabo Fed Com #802H

1. Geologic Formations

TVD of target	10,602' EOL	Pilot hole depth	NA
MD at TD:	20,789'	Deepest expected fresh water:	53'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	516	Water	
Top of Salt	903	Salt	
Base of Salt	3170	Salt	
Lamar	3382	Salt Water	
Bell Canyon	3428	Salt Water	
Cherry Canyon	4320	Oil/Gas	
Brushy Canyon	5544	Oil/Gas	
Bone Spring Lime	7207	Oil/Gas	
1st Bone Spring Sand	8172	Oil/Gas	
2nd Bone Spring Sand	8783	Oil/Gas	
3rd Bone Spring Sand	9294	Oil/Gas	
Wolfcamp A	10579	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
	From	To		(lbs)			Collapse		Body	Joint
14.75"	0	1350	10.75"	45.5	N80	BTC	4.00	1.67	16.93	17.86
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.25	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.67	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,789	5.5"	20	P110	W441	1.61	2.17	3.02	2.46
					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 Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon 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 - Cabo Wabo Fed Com #802H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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 - Cabo Wabo Fed Com #802H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter. Stage 1	770	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	446	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1055	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0’	50%
1st Intermediate	0’	50%
Production	9,600'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Cabo Wabo Fed Com #802H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

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	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 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 Onshore Oil and Gas Order #2 III.B.1.i.
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 Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips - Cabo Wabo Fed Com #802H

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	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 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
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips - Cabo Wabo Fed Com #802H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6895 psi at 10602' TVD
Abnormal Temperature	NO 165 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 WEST

ATLAS PROSPECT (NM-E)
CABO WABO FEDERAL PROJECT (ATLAS 2529)
CABO WABO FED COM #802H

OWB
PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference PWP2

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 10/12/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,091.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
10,091.0	20,830.6	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	8,052.1	17,420.0	297.5	232.2	4.561	CC, ES
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	8,200.0	17,420.0	332.2	255.3	4.322	SF
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,563.1	10,400.0	399.8	301.4	4.064	CC, ES, SF
CABO WABO FED COM #701H - OWB - PWP2	2,416.0	2,418.0	290.0	277.6	23.419	CC
CABO WABO FED COM #701H - OWB - PWP2	2,500.0	2,500.0	290.0	277.3	22.855	ES
CABO WABO FED COM #701H - OWB - PWP2	2,600.0	2,592.9	293.3	280.2	22.508	SF
CABO WABO FED COM #702H - OWB - PWP2	2,415.6	2,418.6	260.0	253.2	38.001	CC
CABO WABO FED COM #702H - OWB - PWP2	2,500.0	2,502.9	260.0	253.1	37.686	ES
CABO WABO FED COM #702H - OWB - PWP2	2,600.0	2,600.0	262.6	255.6	37.682	SF
CABO WABO FED COM #703H - OWB - PWP2	2,729.5	2,748.8	230.0	222.9	32.496	CC, ES
CABO WABO FED COM #703H - OWB - PWP2	20,831.1	20,786.2	824.1	644.0	4.577	SF
CABO WABO FED COM #705H - OWB - PWP2						Out of range
CABO WABO FED COM #801H - OWB - PWP2	2,500.0	2,500.0	30.8	23.8	4.389	CC, ES
CABO WABO FED COM #801H - OWB - PWP2	20,831.1	20,770.9	431.1	253.5	2.427	SF
CABO WABO FED COM #803H - OWB - PWP2	2,500.0	2,500.0	31.0	18.2	2.430	CC
CABO WABO FED COM #803H - OWB - PWP2	3,300.0	3,296.1	32.4	16.6	2.053	ES
CABO WABO FED COM #803H - OWB - PWP2	3,700.0	3,696.0	35.1	17.6	2.004	SF
CABO WABO FED COM #804H - OWB - PWP2						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

TD 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
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	20,831.1	8,062.0				Out of Range @TD
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,831.1	10,400.0	481.3	394.3	5.528	
CABO WABO FED COM #701H - OWB - PWP2	20,831.1	20,809.5				Out of Range @TD
CABO WABO FED COM #702H - OWB - PWP2	20,831.1	20,905.7				Out of Range @TD
CABO WABO FED COM #703H - OWB - PWP2	20,831.1	20,786.2	824.1	644.0	4.577	SF
CABO WABO FED COM #705H - OWB - PWP2	20,831.1	20,725.1				Out of Range @TD
CABO WABO FED COM #801H - OWB - PWP2	20,831.1	20,770.9	431.1	253.5	2.427	SF
CABO WABO FED COM #803H - OWB - PWP2	20,831.1	20,863.7	429.1	246.6	2.352	
CABO WABO FED COM #804H - OWB - PWP2	20,831.1	20,829.4				Out of Range @TD

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-LAT 01 — **Offset Site Error:** 3.0 usft

Survey Program: 25- VES GyroFlex, 7336-MWD — **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)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	7,057.8	17,420.0	7,944.9	8.6	161.2	-119.24	-163.6	-633.9	997.5	911.7	85.75	11.632	
7,200.0	7,156.9	17,420.0	7,944.9	8.8	161.2	-119.24	-163.6	-633.9	902.5	817.3	85.21	10.591	
7,300.0	7,255.9	17,420.0	7,944.9	8.9	161.2	-119.24	-163.6	-633.9	808.8	724.3	84.44	9.578	
7,400.0	7,354.9	17,420.0	7,944.9	9.0	161.2	-119.24	-163.6	-633.9	716.7	633.4	83.34	8.600	
7,500.0	7,453.9	17,420.0	7,944.9	9.1	161.2	-119.24	-163.6	-633.9	627.1	545.4	81.76	7.670	
7,600.0	7,553.0	17,420.0	7,944.9	9.3	161.2	-119.24	-163.6	-633.9	541.2	461.7	79.45	6.811	
7,700.0	7,652.0	17,420.0	7,944.9	9.4	161.2	-119.24	-163.6	-633.9	460.9	384.8	76.08	6.058	
7,800.0	7,751.0	17,420.0	7,944.9	9.5	161.2	-119.24	-163.6	-633.9	389.9	318.5	71.41	5.460	
7,900.0	7,850.0	17,420.0	7,944.9	9.6	161.2	-119.24	-163.6	-633.9	334.1	268.0	66.11	5.054	
8,000.0	7,949.1	17,420.0	7,944.9	9.8	161.2	-119.24	-163.6	-633.9	302.0	238.3	63.68	4.742	
8,052.1	8,000.6	17,420.0	7,944.9	9.8	161.2	-119.24	-163.6	-633.9	297.5	232.2	65.22	4.561	CC, ES
8,100.0	8,048.1	17,420.0	7,944.9	9.9	161.2	-119.24	-163.6	-633.9	301.3	233.0	68.33	4.410	
8,200.0	8,147.1	17,420.0	7,944.9	10.0	161.2	-119.24	-163.6	-633.9	332.2	255.3	76.87	4.322	SF
8,300.0	8,246.1	17,420.0	7,944.9	10.2	161.2	-119.24	-163.6	-633.9	387.2	303.2	84.01	4.609	
8,400.0	8,345.2	17,420.0	7,944.9	10.3	161.2	-119.24	-163.6	-633.9	457.7	369.1	88.62	5.165	
8,500.0	8,444.2	17,420.0	7,944.9	10.4	161.2	-119.24	-163.6	-633.9	537.7	446.3	91.43	5.881	
8,600.0	8,543.2	17,420.0	7,944.9	10.6	161.2	-119.24	-163.6	-633.9	623.5	530.3	93.19	6.690	
8,700.0	8,642.3	17,420.0	7,944.9	10.7	161.2	-119.24	-163.6	-633.9	712.9	618.6	94.35	7.556	
8,800.0	8,741.3	17,420.0	7,944.9	10.8	161.2	-119.24	-163.6	-633.9	804.9	709.7	95.17	8.458	
8,900.0	8,840.3	17,420.0	7,944.9	11.0	161.2	-119.24	-163.6	-633.9	898.6	802.8	95.78	9.382	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE - AWP-PH — **Offset Site Error:** 3.0 usft

Survey Program: 25- VES GyroFlex — **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)	Minimum Separation (usft)	Separation Factor	Warning
19,700.0	10,602.0	10,400.0	10,398.3	80.5	8.5	-71.37	-9,961.4	-452.4	951.2	904.3	46.86	20.300	
19,800.0	10,602.0	10,400.0	10,398.3	81.4	8.5	-71.37	-9,961.4	-452.4	861.5	811.3	50.20	17.159	
19,900.0	10,602.0	10,400.0	10,398.3	82.2	8.5	-71.37	-9,961.4	-452.4	774.3	719.9	54.33	14.252	
20,000.0	10,602.0	10,400.0	10,398.3	83.1	8.5	-71.37	-9,961.4	-452.4	690.6	631.1	59.42	11.622	
20,100.0	10,602.0	10,400.0	10,398.3	83.9	8.5	-71.37	-9,961.4	-452.4	611.8	546.1	65.68	9.315	
20,200.0	10,602.0	10,400.0	10,398.3	84.8	8.5	-71.37	-9,961.4	-452.4	540.1	466.9	73.20	7.378	
20,300.0	10,602.0	10,400.0	10,398.3	85.7	8.5	-71.37	-9,961.4	-452.4	478.6	396.9	81.73	5.855	
20,400.0	10,602.0	10,400.0	10,398.3	86.5	8.5	-71.37	-9,961.4	-452.4	431.8	341.5	90.24	4.785	
20,500.0	10,602.0	10,400.0	10,398.3	87.4	8.5	-71.37	-9,961.4	-452.4	404.7	308.1	96.60	4.190	
20,563.1	10,602.0	10,400.0	10,398.3	87.9	8.5	-71.37	-9,961.4	-452.4	399.8	301.4	98.39	4.064	CC, ES, SF
20,600.0	10,602.0	10,400.0	10,398.3	88.2	8.5	-71.37	-9,961.4	-452.4	401.5	303.1	98.45	4.078	
20,700.0	10,602.0	10,400.0	10,398.3	89.1	8.5	-71.37	-9,961.4	-452.4	422.6	327.3	95.26	4.436	
20,800.0	10,602.0	10,400.0	10,398.3	89.9	8.5	-71.37	-9,961.4	-452.4	464.7	375.9	88.80	5.234	
20,830.6	10,602.0	10,400.0	10,398.3	90.2	8.5	-71.37	-9,961.4	-452.4	481.1	394.5	86.54	5.559	
20,831.1	10,602.0	10,400.0	10,398.3	90.2	8.5	-71.37	-9,961.4	-452.4	481.3	394.3	87.07	5.528	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #701H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-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)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	3.0	3.0	91.00	-5.1	289.9	290.0				
100.0	100.0	102.0	102.0	3.0	3.0	91.00	-5.1	289.9	290.0	284.0	6.00	48.300	
200.0	200.0	202.0	202.0	3.0	3.0	91.00	-5.1	289.9	290.0	283.9	6.04	47.984	
300.0	300.0	302.0	302.0	3.0	3.1	91.00	-5.1	289.9	290.0	283.8	6.13	47.341	
400.0	400.0	402.0	402.0	3.0	3.2	91.00	-5.1	289.9	290.0	283.7	6.25	46.419	
500.0	500.0	502.0	502.0	3.1	3.4	91.00	-5.1	289.9	290.0	283.6	6.40	45.278	
600.0	600.0	602.0	602.0	3.1	3.6	91.00	-5.1	289.9	290.0	283.4	6.59	43.982	
700.0	700.0	702.0	702.0	3.1	3.8	91.00	-5.1	289.9	290.0	283.2	6.81	42.589	
800.0	800.0	802.0	802.0	3.2	4.0	91.00	-5.1	289.9	290.0	282.9	7.05	41.145	
900.0	900.0	902.0	902.0	3.2	4.2	91.00	-5.1	289.9	290.0	282.7	7.31	39.690	
1,000.0	1,000.0	1,002.0	1,002.0	3.2	4.5	91.00	-5.1	289.9	290.0	282.4	7.58	38.250	
1,100.0	1,100.0	1,102.0	1,102.0	3.3	4.8	91.00	-5.1	289.9	290.0	282.1	7.87	36.844	
1,200.0	1,200.0	1,202.0	1,202.0	3.4	5.1	91.00	-5.1	289.9	290.0	281.8	8.17	35.485	
1,300.0	1,300.0	1,302.0	1,302.0	3.4	5.4	91.00	-5.1	289.9	290.0	281.5	8.48	34.181	
1,400.0	1,400.0	1,402.0	1,402.0	3.5	5.7	91.00	-5.1	289.9	290.0	281.2	8.80	32.936	
1,500.0	1,500.0	1,502.0	1,502.0	3.5	6.0	91.00	-5.1	289.9	290.0	280.8	9.13	31.751	
1,600.0	1,600.0	1,602.0	1,602.0	3.6	6.3	91.00	-5.1	289.9	290.0	280.5	9.47	30.627	
1,700.0	1,700.0	1,702.0	1,702.0	3.7	6.6	91.00	-5.1	289.9	290.0	280.2	9.81	29.561	
1,800.0	1,800.0	1,802.0	1,802.0	3.8	6.9	91.00	-5.1	289.9	290.0	279.8	10.16	28.551	
1,900.0	1,900.0	1,902.0	1,902.0	3.9	7.2	91.00	-5.1	289.9	290.0	279.5	10.51	27.596	
2,000.0	2,000.0	2,002.0	2,002.0	3.9	7.6	91.00	-5.1	289.9	290.0	279.1	10.86	26.692	
2,100.0	2,100.0	2,102.0	2,102.0	4.0	7.9	91.00	-5.1	289.9	290.0	278.7	11.22	25.837	
2,200.0	2,200.0	2,202.0	2,202.0	4.1	8.2	91.00	-5.1	289.9	290.0	278.4	11.59	25.027	
2,300.0	2,300.0	2,302.0	2,302.0	4.2	8.6	91.00	-5.1	289.9	290.0	278.0	11.95	24.259	
2,400.0	2,400.0	2,402.0	2,402.0	4.3	8.9	91.00	-5.1	289.9	290.0	277.6	12.32	23.532	
2,416.0	2,416.0	2,418.0	2,418.0	4.3	9.0	91.00	-5.1	289.9	290.0	277.6	12.38	23.419	CC
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	91.00	-5.1	289.9	290.0	277.3	12.69	22.855	ES
2,600.0	2,600.0	2,592.9	2,592.9	4.5	9.5	172.06	-4.6	291.4	293.3	280.2	13.03	22.508	SF
2,700.0	2,699.8	2,683.5	2,683.3	4.5	9.8	171.90	-3.4	295.5	303.0	289.7	13.36	22.690	
2,800.0	2,799.5	2,772.9	2,772.5	4.5	10.1	171.67	-1.3	302.4	319.2	305.5	13.68	23.341	
2,900.0	2,898.7	2,867.6	2,866.6	4.6	10.5	171.39	1.5	311.7	341.0	326.9	14.03	24.305	
3,000.0	2,997.7	2,964.7	2,963.3	4.6	10.8	171.23	4.4	321.4	364.6	350.2	14.41	25.308	
3,100.0	3,096.8	3,061.9	3,059.9	4.7	11.1	171.09	7.3	331.2	388.2	373.4	14.79	26.250	
3,200.0	3,195.8	3,159.1	3,156.6	4.8	11.4	170.97	10.2	340.9	411.8	396.6	15.17	27.137	
3,300.0	3,294.8	3,256.2	3,253.2	4.8	11.8	170.86	13.2	350.6	435.4	419.8	15.56	27.971	
3,400.0	3,393.8	3,353.4	3,349.8	4.9	12.1	170.77	16.1	360.3	459.0	443.0	15.96	28.755	
3,500.0	3,492.9	3,450.6	3,446.5	5.0	12.4	170.68	19.0	370.1	482.6	466.2	16.36	29.494	
3,600.0	3,591.9	3,547.8	3,543.1	5.0	12.8	170.60	21.9	379.8	506.2	489.4	16.77	30.190	
3,700.0	3,690.9	3,644.9	3,639.8	5.1	13.1	170.52	24.9	389.5	529.8	512.6	17.17	30.846	
3,800.0	3,789.9	3,742.1	3,736.4	5.2	13.5	170.46	27.8	399.3	553.4	535.8	17.59	31.465	
3,900.0	3,889.0	3,839.3	3,833.0	5.3	13.8	170.40	30.7	409.0	577.0	559.0	18.00	32.050	
4,000.0	3,988.0	3,936.5	3,929.7	5.3	14.1	170.34	33.6	418.7	600.6	582.2	18.42	32.602	
4,100.0	4,087.0	4,033.6	4,026.3	5.4	14.5	170.29	36.6	428.4	624.2	605.3	18.84	33.124	
4,200.0	4,186.0	4,130.8	4,123.0	5.5	14.8	170.24	39.5	438.2	647.8	628.5	19.27	33.618	
4,300.0	4,285.1	4,228.0	4,219.6	5.6	15.2	170.20	42.4	447.9	671.4	651.7	19.70	34.086	
4,400.0	4,384.1	4,325.1	4,316.2	5.7	15.5	170.15	45.3	457.6	695.0	674.9	20.13	34.529	
4,500.0	4,483.1	4,422.3	4,412.9	5.8	15.8	170.11	48.2	467.4	718.6	698.0	20.56	34.949	
4,600.0	4,582.2	4,519.5	4,509.5	5.9	16.2	170.08	51.2	477.1	742.2	721.2	21.00	35.348	
4,700.0	4,681.2	4,616.7	4,606.2	6.0	16.5	170.04	54.1	486.8	765.8	744.4	21.44	35.727	
4,800.0	4,780.2	4,713.8	4,702.8	6.1	16.9	170.01	57.0	496.5	789.4	767.6	21.88	36.087	
4,900.0	4,879.2	4,811.0	4,799.4	6.2	17.2	169.98	59.9	506.3	813.0	790.7	22.32	36.429	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #701H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,978.3	4,908.2	4,896.1	6.3	17.6	169.95	62.9	516.0	836.6	813.9	22.76	36.755	
5,100.0	5,077.3	5,005.4	4,992.7	6.4	17.9	169.93	65.8	525.7	860.2	837.0	23.21	37.065	
5,200.0	5,176.3	5,102.5	5,089.4	6.5	18.2	169.90	68.7	535.4	883.9	860.2	23.66	37.361	
5,300.0	5,275.3	5,199.7	5,186.0	6.6	18.6	169.88	71.6	545.2	907.5	883.4	24.11	37.643	
5,400.0	5,374.4	5,296.9	5,282.6	6.7	18.9	169.85	74.6	554.9	931.1	906.5	24.56	37.912	
5,500.0	5,473.4	5,394.0	5,379.3	6.8	19.3	169.83	77.5	564.6	954.7	929.7	25.01	38.169	
5,600.0	5,572.4	5,491.2	5,475.9	6.9	19.6	169.81	80.4	574.4	978.3	952.8	25.47	38.415	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10266-MWD+IFR1+FDIR — **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)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	3.0	3.0	3.0	3.0	91.17	-5.3	260.0	260.0				
100.0	100.0	103.0	103.0	3.0	3.0	91.17	-5.3	260.0	260.0	254.0	6.00	43.334	
200.0	200.0	203.0	203.0	3.0	3.0	91.17	-5.3	260.0	260.0	254.0	6.00	43.313	
300.0	300.0	303.0	303.0	3.0	3.0	91.17	-5.3	260.0	260.0	254.0	6.01	43.269	
400.0	400.0	403.0	403.0	3.0	3.0	91.17	-5.3	260.0	260.0	254.0	6.02	43.202	
500.0	500.0	503.0	503.0	3.1	3.1	91.17	-5.3	260.0	260.0	254.0	6.03	43.112	
600.0	600.0	603.0	603.0	3.1	3.1	91.17	-5.3	260.0	260.0	254.0	6.05	42.999	
700.0	700.0	703.0	703.0	3.1	3.1	91.17	-5.3	260.0	260.0	253.9	6.07	42.865	
800.0	800.0	803.0	803.0	3.2	3.2	91.17	-5.3	260.0	260.0	253.9	6.09	42.709	
900.0	900.0	903.0	903.0	3.2	3.2	91.17	-5.3	260.0	260.0	253.9	6.11	42.533	
1,000.0	1,000.0	1,003.0	1,003.0	3.2	3.2	91.17	-5.3	260.0	260.0	253.9	6.14	42.337	
1,100.0	1,100.0	1,103.0	1,103.0	3.3	3.3	91.17	-5.3	260.0	260.0	253.8	6.17	42.122	
1,200.0	1,200.0	1,203.0	1,203.0	3.4	3.4	91.17	-5.3	260.0	260.0	253.8	6.21	41.889	
1,300.0	1,300.0	1,303.0	1,303.0	3.4	3.4	91.17	-5.3	260.0	260.0	253.8	6.24	41.639	
1,400.0	1,400.0	1,403.0	1,403.0	3.5	3.5	91.17	-5.3	260.0	260.0	253.7	6.28	41.373	
1,500.0	1,500.0	1,503.0	1,503.0	3.5	3.5	91.17	-5.3	260.0	260.0	253.7	6.33	41.092	
1,600.0	1,600.0	1,603.0	1,603.0	3.6	3.6	91.17	-5.3	260.0	260.0	253.6	6.37	40.797	
1,700.0	1,700.0	1,703.0	1,703.0	3.7	3.7	91.17	-5.3	260.0	260.0	253.6	6.42	40.489	
1,800.0	1,800.0	1,803.0	1,803.0	3.8	3.8	91.17	-5.3	260.0	260.0	253.5	6.47	40.170	
1,900.0	1,900.0	1,903.0	1,903.0	3.9	3.9	91.17	-5.3	260.0	260.0	253.5	6.53	39.839	
2,000.0	2,000.0	2,003.0	2,003.0	3.9	3.9	91.17	-5.3	260.0	260.0	253.4	6.58	39.499	
2,100.0	2,100.0	2,103.0	2,103.0	4.0	4.0	91.17	-5.3	260.0	260.0	253.4	6.64	39.150	
2,200.0	2,200.0	2,203.0	2,203.0	4.1	4.1	91.17	-5.3	260.0	260.0	253.3	6.70	38.793	
2,300.0	2,300.0	2,303.0	2,303.0	4.2	4.2	91.17	-5.3	260.0	260.0	253.2	6.77	38.429	
2,400.0	2,400.0	2,403.0	2,403.0	4.3	4.3	91.17	-5.3	260.0	260.0	253.2	6.83	38.060	
2,415.6	2,415.6	2,418.6	2,418.6	4.3	4.3	91.17	-5.3	260.0	260.0	253.2	6.84	38.001	CC
2,500.0	2,500.0	2,502.9	2,502.9	4.4	4.4	91.17	-5.3	260.0	260.0	253.1	6.90	37.686	ES
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	171.99	-3.8	260.8	262.6	255.6	6.97	37.682	SF
2,700.0	2,699.8	2,693.9	2,693.7	4.5	4.6	171.22	0.4	263.2	270.3	263.2	7.04	38.385	
2,800.0	2,799.5	2,792.7	2,792.4	4.5	4.7	170.23	6.3	266.7	282.4	275.3	7.12	39.651	
2,900.0	2,898.7	2,891.4	2,890.8	4.6	4.7	169.42	12.3	270.1	298.0	290.8	7.21	41.337	
3,000.0	2,997.7	2,989.9	2,989.0	4.6	4.8	168.80	18.2	273.6	315.3	308.0	7.30	43.187	
3,100.0	3,096.8	3,088.3	3,087.2	4.7	4.9	168.25	24.2	277.0	332.6	325.2	7.40	44.960	
3,200.0	3,195.8	3,186.7	3,185.4	4.8	5.0	167.75	30.1	280.4	350.0	342.5	7.50	46.657	
3,300.0	3,294.8	3,285.2	3,283.6	4.8	5.1	167.30	36.1	283.9	367.4	359.8	7.61	48.277	
3,400.0	3,393.8	3,383.6	3,381.8	4.9	5.2	166.89	42.0	287.3	384.8	377.1	7.72	49.820	
3,500.0	3,492.9	3,482.1	3,480.0	5.0	5.3	166.52	48.0	290.7	402.3	394.4	7.84	51.289	
3,600.0	3,591.9	3,580.5	3,578.2	5.0	5.4	166.18	53.9	294.2	419.7	411.7	7.97	52.683	
3,700.0	3,690.9	3,678.9	3,676.4	5.1	5.5	165.86	59.9	297.6	437.2	429.1	8.09	54.006	
3,800.0	3,789.9	3,777.4	3,774.6	5.2	5.6	165.57	65.8	301.0	454.6	446.4	8.23	55.260	
3,900.0	3,889.0	3,875.8	3,872.8	5.3	5.7	165.30	71.8	304.5	472.1	463.8	8.36	56.446	
4,000.0	3,988.0	3,974.2	3,971.0	5.3	5.8	165.05	77.7	307.9	489.6	481.1	8.51	57.566	
4,100.0	4,087.0	4,072.7	4,069.2	5.4	5.9	164.82	83.7	311.3	507.1	498.5	8.65	58.625	
4,200.0	4,186.0	4,171.1	4,167.4	5.5	6.0	164.60	89.6	314.7	524.6	515.8	8.80	59.624	
4,300.0	4,285.1	4,269.5	4,265.6	5.6	6.1	164.40	95.6	318.2	542.2	533.2	8.95	60.566	
4,400.0	4,384.1	4,368.0	4,363.8	5.7	6.2	164.21	101.5	321.6	559.7	550.6	9.11	61.453	
4,500.0	4,483.1	4,466.4	4,462.0	5.8	6.4	164.03	107.5	325.0	577.2	567.9	9.27	62.288	
4,600.0	4,582.2	4,564.9	4,560.1	5.9	6.5	163.86	113.4	328.5	594.7	585.3	9.43	63.075	
4,700.0	4,681.2	4,663.3	4,658.3	6.0	6.6	163.70	119.3	331.9	612.3	602.7	9.59	63.814	
4,800.0	4,780.2	4,764.9	4,759.7	6.1	6.7	163.56	125.3	335.4	629.7	620.0	9.76	64.500	
4,900.0	4,879.2	4,870.7	4,865.4	6.2	6.8	163.54	130.1	338.1	646.2	636.3	9.93	65.065	

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 WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10266-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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,978.3	4,976.8	4,971.4	6.3	6.9	163.66	133.2	339.9	661.6	651.5	10.10	65.504	
5,100.0	5,077.3	5,083.3	5,077.9	6.4	7.1	163.90	134.6	340.7	675.9	665.6	10.27	65.815	
5,200.0	5,176.3	5,184.7	5,179.3	6.5	7.2	164.22	134.7	340.8	689.3	678.9	10.42	66.136	
5,300.0	5,275.3	5,283.7	5,278.3	6.6	7.3	164.53	134.7	340.8	702.7	692.2	10.57	66.467	
5,400.0	5,374.4	5,382.8	5,377.4	6.7	7.4	164.83	134.7	340.8	716.2	705.5	10.72	66.779	
5,500.0	5,473.4	5,481.8	5,476.4	6.8	7.5	165.11	134.7	340.8	729.6	718.8	10.88	67.072	
5,600.0	5,572.4	5,580.8	5,575.4	6.9	7.6	165.39	134.7	340.8	743.1	732.1	11.03	67.348	
5,700.0	5,671.5	5,679.9	5,674.5	7.0	7.8	165.66	134.7	340.8	756.6	745.4	11.19	67.608	
5,800.0	5,770.5	5,778.9	5,773.5	7.1	7.9	165.91	134.7	340.8	770.1	758.7	11.35	67.852	
5,900.0	5,869.5	5,877.9	5,872.5	7.2	8.0	166.16	134.7	340.8	783.6	772.1	11.51	68.082	
6,000.0	5,968.5	5,976.9	5,971.5	7.3	8.1	166.40	134.7	340.8	797.1	785.4	11.67	68.299	
6,100.0	6,067.6	6,076.0	6,070.6	7.4	8.2	166.63	134.7	340.8	810.7	798.8	11.83	68.502	
6,200.0	6,166.6	6,175.0	6,169.6	7.6	8.3	166.85	134.7	340.8	824.2	812.2	12.00	68.694	
6,300.0	6,265.6	6,274.0	6,268.6	7.7	8.5	167.07	134.7	340.8	837.8	825.6	12.16	68.875	
6,400.0	6,364.6	6,373.0	6,367.6	7.8	8.6	167.28	134.7	340.8	851.4	839.0	12.33	69.045	
6,500.0	6,463.7	6,472.1	6,466.7	7.9	8.7	167.48	134.7	340.8	864.9	852.4	12.50	69.205	
6,600.0	6,562.7	6,571.1	6,565.7	8.0	8.8	167.68	134.7	340.8	878.5	865.9	12.67	69.356	
6,700.0	6,661.7	6,670.1	6,664.7	8.1	8.9	167.87	134.7	340.8	892.1	879.3	12.84	69.498	
6,800.0	6,760.7	6,769.1	6,763.7	8.3	9.1	168.05	134.7	340.8	905.8	892.8	13.01	69.632	
6,900.0	6,859.8	6,868.2	6,862.8	8.4	9.2	168.23	134.7	340.8	919.4	906.2	13.18	69.758	
7,000.0	6,958.8	6,967.2	6,961.8	8.5	9.3	168.41	134.7	340.8	933.0	919.7	13.35	69.876	
7,100.0	7,057.8	7,066.2	7,060.8	8.6	9.4	168.58	134.7	340.8	946.7	933.1	13.53	69.987	
7,200.0	7,156.9	7,165.3	7,159.9	8.8	9.6	168.74	134.7	340.8	960.3	946.6	13.70	70.092	
7,300.0	7,255.9	7,264.3	7,258.9	8.9	9.7	168.90	134.7	340.8	974.0	960.1	13.88	70.191	
7,400.0	7,354.9	7,363.3	7,357.9	9.0	9.8	169.06	134.7	340.8	987.6	973.6	14.05	70.283	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR — **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)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	91.38	-5.5	230.0	230.1				
100.0	100.0	101.0	101.0	3.0	3.0	91.38	-5.5	230.0	230.1	224.1	6.00	38.348	
200.0	200.0	201.0	201.0	3.0	3.0	91.38	-5.5	230.0	230.1	224.1	6.00	38.330	
300.0	300.0	301.0	301.0	3.0	3.0	91.38	-5.5	230.0	230.1	224.1	6.01	38.291	
400.0	400.0	401.0	401.0	3.0	3.0	91.38	-5.5	230.0	230.1	224.1	6.02	38.231	
500.0	500.0	501.0	501.0	3.1	3.1	91.38	-5.5	230.0	230.1	224.1	6.03	38.152	
600.0	600.0	601.0	601.0	3.1	3.1	91.38	-5.5	230.0	230.1	224.1	6.05	38.052	
700.0	700.0	701.0	701.0	3.1	3.1	91.38	-5.5	230.0	230.1	224.0	6.07	37.933	
800.0	800.0	801.0	801.0	3.2	3.2	91.38	-5.5	230.0	230.1	224.0	6.09	37.795	
900.0	900.0	901.0	901.0	3.2	3.2	91.38	-5.5	230.0	230.1	224.0	6.11	37.639	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	3.2	91.38	-5.5	230.0	230.1	224.0	6.14	37.466	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	3.3	91.38	-5.5	230.0	230.1	223.9	6.17	37.276	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.4	91.38	-5.5	230.0	230.1	223.9	6.21	37.070	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	3.4	91.38	-5.5	230.0	230.1	223.9	6.24	36.849	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	3.5	91.38	-5.5	230.0	230.1	223.8	6.28	36.613	
1,500.0	1,500.0	1,501.0	1,501.0	3.5	3.5	91.38	-5.5	230.0	230.1	223.8	6.33	36.365	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	3.6	91.38	-5.5	230.0	230.1	223.7	6.37	36.103	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	91.38	-5.5	230.0	230.1	223.7	6.42	35.831	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	3.8	91.38	-5.5	230.0	230.1	223.6	6.47	35.548	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	91.38	-5.5	230.0	230.1	223.6	6.53	35.256	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	3.9	91.38	-5.5	230.0	230.1	223.5	6.58	34.954	
2,100.0	2,100.0	2,101.0	2,101.0	4.0	4.0	91.38	-5.5	230.0	230.1	223.5	6.64	34.645	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	4.1	91.38	-5.5	230.0	230.1	223.4	6.70	34.330	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	4.2	91.38	-5.5	230.0	230.1	223.3	6.77	34.008	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	4.3	91.38	-5.5	230.0	230.1	223.3	6.83	33.681	
2,500.0	2,500.0	2,501.1	2,501.1	4.4	4.4	91.38	-5.5	230.0	230.1	223.2	6.90	33.349	
2,600.0	2,600.0	2,609.0	2,609.0	4.5	4.5	172.35	-4.7	228.1	230.1	223.1	6.97	32.988	
2,700.0	2,699.8	2,717.0	2,716.8	4.5	4.5	171.93	-2.1	222.6	230.0	223.0	7.05	32.609	
2,729.5	2,729.2	2,748.8	2,748.5	4.5	4.6	171.76	-1.1	220.2	230.0	222.9	7.08	32.496	CC, ES
2,800.0	2,799.5	2,819.4	2,818.8	4.5	4.6	171.36	1.5	214.6	230.9	223.7	7.14	32.342	
2,900.0	2,898.7	2,919.3	2,918.3	4.6	4.7	170.92	5.1	206.7	235.0	227.8	7.23	32.514	
3,000.0	2,997.7	3,019.1	3,017.7	4.6	4.7	170.58	8.8	198.8	240.9	233.5	7.32	32.892	
3,100.0	3,096.8	3,118.9	3,117.2	4.7	4.8	170.25	12.4	190.9	246.7	239.3	7.42	33.236	
3,200.0	3,195.8	3,218.7	3,216.6	4.8	4.9	169.93	16.0	183.0	252.6	245.1	7.53	33.548	
3,300.0	3,294.8	3,318.5	3,316.1	4.8	5.0	169.63	19.6	175.1	258.5	250.9	7.64	33.829	
3,400.0	3,393.8	3,418.4	3,415.5	4.9	5.0	169.34	23.3	167.2	264.4	256.6	7.76	34.080	
3,500.0	3,492.9	3,518.2	3,514.9	5.0	5.1	169.07	26.9	159.3	270.3	262.4	7.88	34.303	
3,600.0	3,591.9	3,618.0	3,614.4	5.0	5.2	168.81	30.5	151.3	276.2	268.2	8.01	34.500	
3,700.0	3,690.9	3,717.8	3,713.8	5.1	5.3	168.56	34.1	143.4	282.1	274.0	8.14	34.671	
3,800.0	3,789.9	3,817.6	3,813.2	5.2	5.4	168.32	37.7	135.5	288.0	279.8	8.27	34.820	
3,900.0	3,889.0	3,917.4	3,912.7	5.3	5.4	168.08	41.4	127.6	294.0	285.5	8.41	34.946	
4,000.0	3,988.0	4,017.3	4,012.1	5.3	5.5	167.86	45.0	119.7	299.9	291.3	8.56	35.052	
4,100.0	4,087.0	4,117.1	4,111.6	5.4	5.6	167.65	48.6	111.8	305.8	297.1	8.70	35.139	
4,200.0	4,186.0	4,216.9	4,211.0	5.5	5.7	167.44	52.2	103.9	311.7	302.9	8.85	35.209	
4,300.0	4,285.1	4,316.7	4,310.4	5.6	5.8	167.24	55.9	96.0	317.7	308.7	9.01	35.262	
4,400.0	4,384.1	4,416.5	4,409.9	5.7	5.9	167.05	59.5	88.1	323.6	314.5	9.17	35.301	
4,500.0	4,483.1	4,516.3	4,509.3	5.8	6.0	166.87	63.1	80.2	329.6	320.2	9.33	35.326	
4,600.0	4,582.2	4,616.2	4,608.7	5.9	6.1	166.69	66.7	72.2	335.5	326.0	9.49	35.339	
4,700.0	4,681.2	4,716.0	4,708.2	6.0	6.2	166.52	70.4	64.3	341.5	331.8	9.66	35.340	
4,800.0	4,780.2	4,815.8	4,807.6	6.1	6.3	166.36	74.0	56.4	347.4	337.6	9.83	35.332	
4,900.0	4,879.2	4,915.6	4,907.1	6.2	6.4	166.20	77.6	48.5	353.4	343.4	10.01	35.313	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10239-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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,978.3	5,015.4	5,006.5	6.3	6.5	166.04	81.2	40.6	359.4	349.2	10.18	35.287	
5,100.0	5,077.3	5,115.3	5,105.9	6.4	6.6	165.89	84.8	32.7	365.3	355.0	10.36	35.253	
5,200.0	5,176.3	5,215.1	5,205.4	6.5	6.7	165.75	88.5	24.8	371.3	360.7	10.54	35.211	
5,300.0	5,275.3	5,314.9	5,304.8	6.6	6.8	165.61	92.1	16.9	377.3	366.5	10.73	35.164	
5,400.0	5,374.4	5,414.7	5,404.2	6.7	6.9	165.47	95.7	9.0	383.2	372.3	10.91	35.111	
5,500.0	5,473.4	5,514.5	5,503.7	6.8	7.0	165.34	99.3	1.1	389.2	378.1	11.10	35.053	
5,600.0	5,572.4	5,614.3	5,603.1	6.9	7.1	165.21	103.0	-6.8	395.2	383.9	11.29	34.990	
5,700.0	5,671.5	5,714.2	5,702.6	7.0	7.2	165.09	106.6	-14.8	401.1	389.7	11.49	34.924	
5,800.0	5,770.5	5,814.0	5,802.0	7.1	7.3	164.97	110.2	-22.7	407.1	395.4	11.68	34.853	
5,900.0	5,869.5	5,913.8	5,901.4	7.2	7.5	164.85	113.8	-30.6	413.1	401.2	11.88	34.780	
6,000.0	5,968.5	6,013.6	6,000.9	7.3	7.6	164.74	117.5	-38.5	419.1	407.0	12.08	34.704	
6,100.0	6,067.6	6,113.4	6,100.3	7.4	7.7	164.63	121.1	-46.4	425.1	412.8	12.28	34.626	
6,200.0	6,166.6	6,211.0	6,197.5	7.6	7.8	164.53	124.6	-54.0	431.2	418.7	12.48	34.556	
6,300.0	6,265.6	6,304.7	6,290.9	7.7	7.9	164.53	127.4	-60.2	438.3	425.7	12.68	34.559	
6,400.0	6,364.6	6,400.0	6,386.1	7.8	8.0	164.62	129.7	-65.1	446.9	434.0	12.90	34.649	
6,500.0	6,463.7	6,491.3	6,477.3	7.9	8.1	164.81	131.2	-68.5	456.9	443.8	13.12	34.814	
6,600.0	6,562.7	6,584.2	6,570.2	8.0	8.2	165.08	132.1	-70.5	468.3	454.9	13.36	35.051	
6,700.0	6,661.7	6,676.7	6,662.7	8.1	8.3	165.44	132.4	-71.2	481.1	467.5	13.59	35.410	
6,800.0	6,760.7	6,775.7	6,761.7	8.3	8.4	165.84	132.4	-71.2	494.6	480.8	13.77	35.911	
6,900.0	6,859.8	6,874.8	6,860.8	8.4	8.5	166.23	132.4	-71.2	508.1	494.1	13.96	36.399	
7,000.0	6,958.8	6,973.8	6,959.8	8.5	8.6	166.59	132.4	-71.2	521.6	507.5	14.15	36.876	
7,100.0	7,057.8	7,072.8	7,058.8	8.6	8.7	166.94	132.4	-71.2	535.2	520.8	14.33	37.340	
7,200.0	7,156.9	7,171.8	7,157.9	8.8	8.8	167.26	132.4	-71.2	548.8	534.2	14.52	37.793	
7,300.0	7,255.9	7,270.9	7,256.9	8.9	8.9	167.58	132.4	-71.2	562.3	547.6	14.71	38.235	
7,400.0	7,354.9	7,369.9	7,355.9	9.0	9.0	167.87	132.4	-71.2	575.9	561.1	14.90	38.666	
7,500.0	7,453.9	7,468.9	7,454.9	9.1	9.1	168.16	132.4	-71.2	589.6	574.5	15.08	39.086	
7,600.0	7,553.0	7,568.0	7,554.0	9.3	9.2	168.43	132.4	-71.2	603.2	587.9	15.27	39.496	
7,700.0	7,652.0	7,667.0	7,653.0	9.4	9.4	168.69	132.4	-71.2	616.8	601.4	15.46	39.896	
7,800.0	7,751.0	7,766.0	7,752.0	9.5	9.5	168.94	132.4	-71.2	630.5	614.9	15.65	40.287	
7,900.0	7,850.0	7,865.0	7,851.0	9.6	9.6	169.17	132.4	-71.2	644.2	628.3	15.84	40.668	
8,000.0	7,949.1	7,964.1	7,950.1	9.8	9.7	169.40	132.4	-71.2	657.9	641.8	16.03	41.040	
8,100.0	8,048.1	8,063.1	8,049.1	9.9	9.8	169.62	132.4	-71.2	671.5	655.3	16.22	41.403	
8,200.0	8,147.1	8,162.1	8,148.1	10.0	9.9	169.83	132.4	-71.2	685.2	668.8	16.41	41.758	
8,300.0	8,246.1	8,261.1	8,247.1	10.2	10.0	170.03	132.4	-71.2	698.9	682.3	16.60	42.104	
8,400.0	8,345.2	8,360.2	8,346.2	10.3	10.1	170.22	132.4	-71.2	712.7	695.9	16.79	42.442	
8,500.0	8,444.2	8,459.2	8,445.2	10.4	10.2	170.41	132.4	-71.2	726.4	709.4	16.98	42.772	
8,600.0	8,543.2	8,558.2	8,544.2	10.6	10.3	170.59	132.4	-71.2	740.1	722.9	17.17	43.095	
8,700.0	8,642.3	8,657.2	8,643.3	10.7	10.5	170.76	132.4	-71.2	753.9	736.5	17.37	43.410	
8,800.0	8,741.3	8,756.3	8,742.3	10.8	10.6	170.93	132.4	-71.2	767.6	750.0	17.56	43.718	
8,900.0	8,840.3	8,855.3	8,841.3	11.0	10.7	171.09	132.4	-71.2	781.3	763.6	17.75	44.020	
9,009.6	8,948.8	8,963.8	8,949.8	11.1	10.8	171.26	132.4	-71.2	796.4	778.5	17.96	44.342	
9,100.0	9,038.5	9,053.5	9,039.5	11.2	10.9	171.41	132.4	-71.2	807.5	789.3	18.13	44.530	
9,200.0	9,138.1	9,153.1	9,139.1	11.4	11.0	171.54	132.4	-71.2	816.4	798.1	18.32	44.567	
9,300.0	9,238.0	9,253.0	9,239.0	11.5	11.1	171.61	132.4	-71.2	821.9	803.4	18.50	44.430	
9,409.6	9,347.5	9,362.5	9,348.5	11.6	11.3	90.52	132.4	-71.2	824.0	805.3	18.65	44.180	
9,500.0	9,437.9	9,452.9	9,438.9	11.7	11.4	90.52	132.4	-71.2	824.0	805.3	18.74	43.968	
9,600.0	9,537.9	9,552.9	9,538.9	11.8	11.5	90.52	132.4	-71.2	824.0	805.2	18.84	43.735	
9,700.0	9,637.9	9,652.9	9,638.9	11.8	11.6	90.52	132.4	-71.2	824.0	805.1	18.94	43.504	
9,800.0	9,737.9	9,752.9	9,738.9	11.9	11.7	90.52	132.4	-71.2	824.0	805.0	19.04	43.273	
9,900.0	9,837.9	9,852.9	9,838.9	12.0	11.9	90.52	132.4	-71.2	824.0	804.9	19.14	43.044	
10,000.0	9,937.9	9,952.9	9,938.9	12.1	12.0	90.52	132.4	-71.2	824.0	804.7	19.24	42.817	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10239-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)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,037.9	10,052.9	10,038.9	12.2	12.1	90.52	132.4	-71.2	824.0	804.7	19.33	42.628	
10,186.6	10,124.5	10,139.5	10,125.5	12.2	12.2	90.52	132.4	-71.2	824.0	804.6	19.39	42.487	
10,200.0	10,137.9	10,152.9	10,138.9	12.2	12.2	-89.13	132.4	-71.2	824.0	804.6	19.40	42.467	
10,225.0	10,162.9	10,177.3	10,163.3	12.2	12.2	-89.18	131.9	-71.2	824.0	804.6	19.42	42.437	
10,250.0	10,187.8	10,201.7	10,187.7	12.2	12.2	-89.24	130.1	-71.2	824.0	804.5	19.43	42.408	
10,275.0	10,212.4	10,226.2	10,211.9	12.2	12.2	-89.30	127.1	-71.2	824.0	804.5	19.44	42.379	
10,300.0	10,236.9	10,250.7	10,236.0	12.2	13.1	-89.36	122.8	-71.1	823.9	804.5	19.45	42.363	
10,325.0	10,261.0	10,275.2	10,259.9	12.3	13.1	-89.42	117.3	-71.1	823.9	804.5	19.45	42.357	
10,350.0	10,284.8	10,299.8	10,283.6	12.3	13.1	-89.49	110.5	-71.1	823.9	804.5	19.46	42.346	
10,375.0	10,308.1	10,324.4	10,306.9	12.3	13.1	-89.56	102.5	-71.0	823.9	804.5	19.46	42.329	
10,400.0	10,330.9	10,349.1	10,329.8	12.3	13.1	-89.62	93.3	-71.0	823.9	804.4	19.48	42.305	
10,425.0	10,353.2	10,373.8	10,352.2	12.3	13.2	-89.69	83.0	-70.9	823.9	804.4	19.49	42.273	
10,450.0	10,374.8	10,398.6	10,374.1	12.3	13.2	-89.76	71.4	-70.8	823.9	804.4	19.51	42.232	
10,475.0	10,395.7	10,423.4	10,395.4	12.4	13.2	-89.83	58.7	-70.7	823.9	804.4	19.53	42.180	
10,500.0	10,415.9	10,448.3	10,416.1	12.4	13.2	-89.91	44.9	-70.7	823.9	804.3	19.56	42.116	
10,525.0	10,435.3	10,473.2	10,436.1	12.4	13.3	-89.98	29.9	-70.6	823.9	804.3	19.60	42.039	
10,530.3	10,439.3	10,478.6	10,440.3	12.4	13.3	-89.99	26.6	-70.5	823.9	804.3	19.61	42.020	
10,550.0	10,453.8	10,498.2	10,455.3	12.4	13.3	-90.05	14.0	-70.5	823.9	804.3	19.64	41.948	
10,575.0	10,471.5	10,523.3	10,473.7	12.5	13.3	-90.12	-3.0	-70.4	823.9	804.2	19.69	41.842	
10,600.0	10,488.2	10,548.4	10,491.2	12.5	13.4	-90.19	-21.0	-70.2	823.9	804.2	19.75	41.719	
10,625.0	10,503.9	10,573.5	10,507.8	12.5	13.4	-90.26	-39.9	-70.1	823.9	804.1	19.82	41.579	
10,650.0	10,518.5	10,598.7	10,523.4	12.5	13.4	-90.33	-59.7	-70.0	823.9	804.0	19.89	41.421	
10,675.0	10,532.1	10,624.0	10,537.9	12.6	13.5	-90.40	-80.4	-69.9	823.9	803.9	19.98	41.245	
10,700.0	10,544.6	10,649.3	10,551.4	12.6	13.5	-90.47	-101.8	-69.7	823.9	803.9	20.07	41.050	
10,725.0	10,555.9	10,674.7	10,563.7	12.6	13.5	-90.54	-124.0	-69.6	823.9	803.8	20.18	40.838	
10,750.0	10,566.0	10,700.1	10,574.9	12.7	13.6	-90.60	-146.8	-69.4	823.9	803.7	20.29	40.607	
10,775.0	10,574.9	10,725.6	10,584.8	12.7	13.6	-90.67	-170.2	-69.3	824.0	803.5	20.42	40.360	
10,800.0	10,582.6	10,751.1	10,593.5	12.7	13.6	-90.73	-194.2	-69.1	824.0	803.4	20.55	40.097	
10,825.0	10,589.0	10,776.6	10,601.0	12.8	13.7	-90.79	-218.7	-69.0	824.0	803.3	20.69	39.819	
10,850.0	10,594.1	10,802.3	10,607.1	12.8	13.7	-90.85	-243.6	-68.8	824.0	803.1	20.85	39.529	
10,875.0	10,598.0	10,827.9	10,611.8	12.8	13.7	-90.90	-268.8	-68.7	824.0	803.0	21.01	39.227	
10,900.0	10,600.6	10,853.6	10,615.3	12.9	13.8	-90.96	-294.3	-68.5	824.0	802.8	21.17	38.917	
10,925.0	10,601.8	10,879.4	10,617.3	12.9	13.8	-91.01	-319.9	-68.3	824.0	802.7	21.35	38.600	
10,936.6	10,602.0	10,891.3	10,617.8	12.9	13.8	-91.03	-331.8	-68.3	824.0	802.6	21.43	38.452	
11,000.0	10,602.0	10,955.2	10,618.0	13.0	13.9	-91.04	-395.7	-67.9	824.0	802.1	21.90	37.625	
11,100.0	10,602.0	11,055.2	10,618.0	13.2	14.0	-91.04	-495.7	-67.2	824.0	801.3	22.72	36.267	
11,200.0	10,602.0	11,155.2	10,618.0	13.4	14.1	-91.04	-595.7	-66.6	824.0	800.4	23.64	34.860	
11,300.0	10,602.0	11,255.2	10,618.0	13.7	14.2	-91.04	-695.7	-66.0	824.0	799.4	24.64	33.440	
11,400.0	10,602.0	11,355.2	10,618.0	14.1	14.4	-91.04	-795.7	-65.3	824.0	798.3	25.72	32.037	
11,500.0	10,602.0	11,455.2	10,618.0	14.6	14.6	-91.04	-895.7	-64.7	824.0	797.2	26.87	30.669	
11,600.0	10,602.0	11,555.2	10,618.0	15.1	14.8	-91.04	-995.7	-64.1	824.0	796.0	28.07	29.353	
11,700.0	10,602.0	11,655.2	10,618.0	15.6	15.1	-91.04	-1,095.7	-63.4	824.0	794.7	29.33	28.095	
11,800.0	10,602.0	11,755.2	10,618.0	16.2	15.5	-91.04	-1,195.7	-62.8	824.0	793.4	30.63	26.901	
11,900.0	10,602.0	11,855.2	10,618.0	16.8	16.0	-91.04	-1,295.7	-62.2	824.0	792.1	31.97	25.773	
12,000.0	10,602.0	11,955.2	10,618.0	17.4	16.5	-91.04	-1,395.7	-61.5	824.0	790.7	33.35	24.709	
12,100.0	10,602.0	12,055.2	10,618.0	18.1	17.1	-91.04	-1,495.7	-60.9	824.0	789.3	34.76	23.709	
12,200.0	10,602.0	12,155.2	10,618.0	18.8	17.8	-91.04	-1,595.7	-60.3	824.0	787.9	36.19	22.770	
12,300.0	10,602.0	12,255.2	10,618.0	19.5	18.5	-91.04	-1,695.7	-59.6	824.0	786.4	37.65	21.888	
12,400.0	10,602.0	12,355.2	10,618.0	20.2	19.2	-91.04	-1,795.7	-59.0	824.0	784.9	39.13	21.061	
12,500.0	10,602.0	12,455.2	10,618.0	20.9	19.9	-91.04	-1,895.6	-58.4	824.1	783.4	40.63	20.284	
12,600.0	10,602.0	12,555.2	10,618.0	21.6	20.7	-91.04	-1,995.6	-57.7	824.1	781.9	42.14	19.555	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10239-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)	Minimum Separation (usft)	Separation Factor	Warning
12,700.0	10,602.0	12,655.2	10,618.0	22.4	21.4	-91.04	-2,095.6	-57.1	824.1	780.4	43.67	18.869	
12,800.0	10,602.0	12,755.2	10,618.0	23.1	22.2	-91.04	-2,195.6	-56.5	824.1	778.8	45.22	18.225	
12,900.0	10,602.0	12,855.2	10,618.0	23.9	23.0	-91.04	-2,295.6	-55.8	824.1	777.3	46.77	17.618	
13,000.0	10,602.0	12,955.2	10,618.0	24.7	23.8	-91.04	-2,395.6	-55.2	824.1	775.7	48.34	17.047	
13,100.0	10,602.0	13,055.2	10,618.0	25.4	24.6	-91.04	-2,495.6	-54.6	824.1	774.1	49.92	16.508	
13,200.0	10,602.0	13,155.2	10,618.0	26.2	25.4	-91.04	-2,595.6	-53.9	824.1	772.6	51.51	15.999	
13,300.0	10,602.0	13,255.2	10,618.0	27.0	26.2	-91.04	-2,695.6	-53.3	824.1	771.0	53.10	15.519	
13,400.0	10,602.0	13,355.2	10,618.0	27.8	27.0	-91.04	-2,795.6	-52.7	824.1	769.4	54.70	15.064	
13,500.0	10,602.0	13,455.2	10,618.0	28.6	27.8	-91.04	-2,895.6	-52.0	824.1	767.7	56.31	14.633	
13,600.0	10,602.0	13,555.2	10,618.0	29.4	28.6	-91.04	-2,995.6	-51.4	824.1	766.1	57.93	14.225	
13,700.0	10,602.0	13,655.2	10,618.0	30.2	29.4	-91.04	-3,095.6	-50.8	824.1	764.5	59.55	13.837	
13,800.0	10,602.0	13,755.2	10,618.0	31.0	30.2	-91.04	-3,195.6	-50.1	824.1	762.9	61.18	13.469	
13,900.0	10,602.0	13,855.2	10,618.0	31.8	31.1	-91.04	-3,295.6	-49.5	824.1	761.2	62.81	13.119	
14,000.0	10,602.0	13,955.2	10,618.0	32.6	31.9	-91.04	-3,395.6	-48.9	824.1	759.6	64.45	12.786	
14,100.0	10,602.0	14,055.2	10,618.0	33.4	32.7	-91.04	-3,495.6	-48.2	824.1	758.0	66.09	12.468	
14,200.0	10,602.0	14,155.2	10,618.0	34.2	33.5	-91.04	-3,595.6	-47.6	824.1	756.3	67.74	12.165	
14,300.0	10,602.0	14,255.2	10,618.0	35.0	34.4	-91.04	-3,695.6	-47.0	824.1	754.7	69.39	11.876	
14,400.0	10,602.0	14,355.2	10,618.0	35.9	35.2	-91.04	-3,795.6	-46.3	824.1	753.0	71.04	11.600	
14,500.0	10,602.0	14,455.2	10,618.0	36.7	36.0	-91.04	-3,895.6	-45.7	824.1	751.4	72.70	11.336	
14,600.0	10,602.0	14,555.2	10,618.0	37.5	36.9	-91.04	-3,995.6	-45.1	824.1	749.7	74.36	11.083	
14,700.0	10,602.0	14,655.2	10,618.0	38.3	37.7	-91.04	-4,095.6	-44.4	824.1	748.1	76.02	10.840	
14,800.0	10,602.0	14,755.2	10,618.0	39.2	38.5	-91.04	-4,195.6	-43.8	824.1	746.4	77.68	10.608	
14,900.0	10,602.0	14,855.2	10,618.0	40.0	39.4	-91.04	-4,295.6	-43.2	824.1	744.7	79.35	10.385	
15,000.0	10,602.0	14,955.2	10,618.0	40.8	40.2	-91.04	-4,395.6	-42.5	824.1	743.1	81.02	10.171	
15,100.0	10,602.0	15,055.2	10,618.0	41.6	41.1	-91.04	-4,495.6	-41.9	824.1	741.4	82.69	9.966	
15,200.0	10,602.0	15,155.2	10,618.0	42.5	41.9	-91.04	-4,595.6	-41.3	824.1	739.7	84.36	9.768	
15,300.0	10,602.0	15,255.2	10,618.0	43.3	42.7	-91.04	-4,695.6	-40.6	824.1	738.0	86.04	9.578	
15,400.0	10,602.0	15,355.2	10,618.0	44.1	43.6	-91.04	-4,795.6	-40.0	824.1	736.4	87.72	9.395	
15,500.0	10,602.0	15,455.2	10,618.0	45.0	44.4	-91.04	-4,895.6	-39.4	824.1	734.7	89.40	9.218	
15,600.0	10,602.0	15,555.2	10,618.0	45.8	45.3	-91.04	-4,995.6	-38.7	824.1	733.0	91.08	9.048	
15,700.0	10,602.0	15,655.2	10,618.0	46.7	46.1	-91.04	-5,095.6	-38.1	824.1	731.3	92.76	8.884	
15,800.0	10,602.0	15,755.2	10,618.0	47.5	47.0	-91.04	-5,195.6	-37.5	824.1	729.6	94.44	8.726	
15,900.0	10,602.0	15,855.2	10,618.0	48.3	47.8	-91.04	-5,295.6	-36.8	824.1	728.0	96.13	8.573	
16,000.0	10,602.0	15,955.2	10,618.0	49.2	48.7	-91.04	-5,395.6	-36.2	824.1	726.3	97.81	8.425	
16,100.0	10,602.0	16,055.2	10,618.0	50.0	49.5	-91.04	-5,495.6	-35.6	824.1	724.6	99.50	8.282	
16,200.0	10,602.0	16,155.2	10,618.0	50.8	50.3	-91.04	-5,595.6	-34.9	824.1	722.9	101.19	8.144	
16,300.0	10,602.0	16,255.2	10,618.0	51.7	51.2	-91.04	-5,695.6	-34.3	824.1	721.2	102.88	8.010	
16,400.0	10,602.0	16,355.2	10,618.0	52.5	52.0	-91.04	-5,795.6	-33.7	824.1	719.5	104.57	7.881	
16,500.0	10,602.0	16,455.2	10,618.0	53.4	52.9	-91.04	-5,895.6	-33.0	824.1	717.8	106.26	7.755	
16,600.0	10,602.0	16,555.2	10,618.0	54.2	53.7	-91.04	-5,995.6	-32.4	824.1	716.1	107.95	7.634	
16,700.0	10,602.0	16,655.2	10,618.0	55.1	54.6	-91.04	-6,095.6	-31.8	824.1	714.4	109.65	7.516	
16,800.0	10,602.0	16,755.2	10,618.0	55.9	55.4	-91.04	-6,195.6	-31.1	824.1	712.7	111.34	7.402	
16,900.0	10,602.0	16,855.2	10,618.0	56.7	56.3	-91.04	-6,295.6	-30.5	824.1	711.1	113.04	7.291	
17,000.0	10,602.0	16,955.2	10,618.0	57.6	57.1	-91.04	-6,395.6	-29.9	824.1	709.4	114.73	7.183	
17,100.0	10,602.0	17,055.2	10,618.0	58.4	58.0	-91.04	-6,495.6	-29.2	824.1	707.7	116.43	7.078	
17,200.0	10,602.0	17,155.2	10,618.0	59.3	58.8	-91.04	-6,595.6	-28.6	824.1	706.0	118.13	6.976	
17,300.0	10,602.0	17,255.2	10,618.0	60.1	59.7	-91.04	-6,695.6	-28.0	824.1	704.3	119.82	6.878	
17,400.0	10,602.0	17,355.2	10,618.0	61.0	60.6	-91.04	-6,795.6	-27.3	824.1	702.6	121.52	6.781	
17,500.0	10,602.0	17,455.2	10,618.0	61.8	61.4	-91.04	-6,895.5	-26.7	824.1	700.9	123.22	6.688	
17,600.0	10,602.0	17,555.2	10,618.0	62.7	62.3	-91.04	-6,995.5	-26.1	824.1	699.2	124.92	6.597	
17,700.0	10,602.0	17,655.2	10,618.0	63.5	63.1	-91.04	-7,095.5	-25.4	824.1	697.5	126.62	6.508	

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 WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR — **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)	Minimum Separation (usft)	Separation Factor	Warning
17,800.0	10,602.0	17,755.2	10,618.0	64.4	64.0	-91.04	-7,195.5	-24.8	824.1	695.8	128.32	6.422	
17,900.0	10,602.0	17,855.2	10,618.0	65.2	64.8	-91.04	-7,295.5	-24.2	824.1	694.1	130.03	6.338	
18,000.0	10,602.0	17,955.2	10,618.0	66.1	65.7	-91.04	-7,395.5	-23.5	824.1	692.4	131.73	6.256	
18,100.0	10,602.0	18,055.2	10,618.0	66.9	66.5	-91.04	-7,495.5	-22.9	824.1	690.7	133.43	6.176	
18,200.0	10,602.0	18,155.2	10,618.0	67.8	67.4	-91.04	-7,595.5	-22.3	824.1	689.0	135.13	6.098	
18,300.0	10,602.0	18,255.2	10,618.0	68.6	68.2	-91.04	-7,695.5	-21.6	824.1	687.3	136.84	6.022	
18,400.0	10,602.0	18,355.2	10,618.0	69.5	69.1	-91.04	-7,795.5	-21.0	824.1	685.6	138.54	5.948	
18,500.0	10,602.0	18,455.2	10,618.0	70.3	69.9	-91.04	-7,895.5	-20.4	824.1	683.9	140.25	5.876	
18,600.0	10,602.0	18,555.2	10,618.0	71.2	70.8	-91.04	-7,995.5	-19.7	824.1	682.2	141.95	5.805	
18,700.0	10,602.0	18,655.2	10,618.0	72.0	71.7	-91.04	-8,095.5	-19.1	824.1	680.4	143.66	5.737	
18,800.0	10,602.0	18,755.2	10,618.0	72.9	72.5	-91.04	-8,195.5	-18.5	824.1	678.7	145.36	5.669	
18,900.0	10,602.0	18,855.2	10,618.0	73.7	73.4	-91.04	-8,295.5	-17.8	824.1	677.0	147.07	5.603	
19,000.0	10,602.0	18,955.2	10,618.0	74.6	74.2	-91.04	-8,395.5	-17.2	824.1	675.3	148.78	5.539	
19,100.0	10,602.0	19,055.2	10,618.0	75.4	75.1	-91.04	-8,495.5	-16.6	824.1	673.6	150.48	5.476	
19,200.0	10,602.0	19,155.2	10,618.0	76.3	75.9	-91.04	-8,595.5	-15.9	824.1	671.9	152.19	5.415	
19,300.0	10,602.0	19,255.2	10,618.0	77.1	76.8	-91.04	-8,695.5	-15.3	824.1	670.2	153.90	5.355	
19,400.0	10,602.0	19,355.2	10,618.0	78.0	77.6	-91.04	-8,795.5	-14.7	824.1	668.5	155.61	5.296	
19,500.0	10,602.0	19,455.2	10,618.0	78.8	78.5	-91.04	-8,895.5	-14.0	824.1	666.8	157.32	5.239	
19,600.0	10,602.0	19,555.2	10,618.0	79.7	79.4	-91.04	-8,995.5	-13.4	824.1	665.1	159.02	5.182	
19,700.0	10,602.0	19,655.2	10,618.0	80.5	80.2	-91.04	-9,095.5	-12.8	824.1	663.4	160.73	5.127	
19,800.0	10,602.0	19,755.2	10,618.0	81.4	81.1	-91.04	-9,195.5	-12.1	824.1	661.7	162.44	5.073	
19,900.0	10,602.0	19,855.2	10,618.0	82.2	81.9	-91.04	-9,295.5	-11.5	824.1	660.0	164.15	5.020	
20,000.0	10,602.0	19,955.2	10,618.0	83.1	82.8	-91.04	-9,395.5	-10.9	824.1	658.3	165.86	4.969	
20,100.0	10,602.0	20,055.2	10,618.0	83.9	83.6	-91.04	-9,495.5	-10.2	824.1	656.5	167.57	4.918	
20,200.0	10,602.0	20,155.2	10,618.0	84.8	84.5	-91.04	-9,595.5	-9.6	824.1	654.8	169.28	4.868	
20,300.0	10,602.0	20,255.2	10,618.0	85.7	85.3	-91.04	-9,695.5	-9.0	824.1	653.1	170.99	4.820	
20,400.0	10,602.0	20,355.2	10,618.0	86.5	86.2	-91.04	-9,795.5	-8.3	824.1	651.4	172.70	4.772	
20,500.0	10,602.0	20,455.2	10,618.0	87.4	87.1	-91.04	-9,895.5	-7.7	824.1	649.7	174.41	4.725	
20,600.0	10,602.0	20,555.2	10,618.0	88.2	87.9	-91.04	-9,995.5	-7.1	824.1	648.0	176.12	4.679	
20,700.0	10,602.0	20,655.2	10,618.0	89.1	88.8	-91.04	-10,095.5	-6.4	824.1	646.3	177.83	4.634	
20,800.0	10,602.0	20,755.2	10,618.0	89.9	89.6	-91.04	-10,195.5	-5.8	824.1	644.6	179.55	4.590	
20,830.6	10,602.0	20,785.7	10,618.0	90.2	89.9	-91.04	-10,226.1	-5.6	824.1	644.1	180.07	4.577	
20,831.1	10,602.0	20,786.2	10,618.0	90.2	89.9	-91.04	-10,226.6	-5.6	824.1	644.0	180.08	4.577	SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10253-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)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	103.58	-7.2	29.9	30.8				
100.0	100.0	100.0	100.0	3.0	3.0	103.58	-7.2	29.9	30.8	24.8	6.00	5.132	
200.0	200.0	200.0	200.0	3.0	3.0	103.58	-7.2	29.9	30.8	24.8	6.00	5.129	
300.0	300.0	300.0	300.0	3.0	3.0	103.58	-7.2	29.9	30.8	24.8	6.01	5.123	
400.0	400.0	400.0	400.0	3.0	3.0	103.58	-7.2	29.9	30.8	24.8	6.02	5.114	
500.0	500.0	500.0	500.0	3.1	3.1	103.58	-7.2	29.9	30.8	24.8	6.04	5.102	
600.0	600.0	600.0	600.0	3.1	3.1	103.58	-7.2	29.9	30.8	24.7	6.05	5.087	
700.0	700.0	700.0	700.0	3.1	3.1	103.58	-7.2	29.9	30.8	24.7	6.07	5.069	
800.0	800.0	800.0	800.0	3.2	3.2	103.58	-7.2	29.9	30.8	24.7	6.10	5.048	
900.0	900.0	900.0	900.0	3.2	3.2	103.58	-7.2	29.9	30.8	24.7	6.13	5.024	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	103.58	-7.2	29.9	30.8	24.6	6.16	4.998	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	103.58	-7.2	29.9	30.8	24.6	6.20	4.969	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	103.58	-7.2	29.9	30.8	24.6	6.24	4.938	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	103.58	-7.2	29.9	30.8	24.5	6.28	4.905	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	103.58	-7.2	29.9	30.8	24.5	6.32	4.870	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	103.58	-7.2	29.9	30.8	24.4	6.37	4.832	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	103.58	-7.2	29.9	30.8	24.4	6.42	4.794	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	103.58	-7.2	29.9	30.8	24.3	6.48	4.753	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	103.58	-7.2	29.9	30.8	24.3	6.54	4.711	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	103.58	-7.2	29.9	30.8	24.2	6.60	4.668	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	103.58	-7.2	29.9	30.8	24.1	6.66	4.623	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	103.58	-7.2	29.9	30.8	24.1	6.73	4.578	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	103.58	-7.2	29.9	30.8	24.0	6.79	4.532	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	103.58	-7.2	29.9	30.8	23.9	6.87	4.485	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	103.58	-7.2	29.9	30.8	23.9	6.94	4.437	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	103.58	-7.2	29.9	30.8	23.8	7.02	4.389	CC, ES
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-175.56	-7.2	29.9	32.5	25.4	7.10	4.583	
2,700.0	2,699.8	2,699.8	2,699.8	4.5	4.6	-176.17	-7.2	29.9	37.8	30.6	7.18	5.255	
2,800.0	2,799.5	2,799.5	2,799.5	4.5	4.7	-176.87	-7.2	29.9	46.4	39.2	7.27	6.390	
2,900.0	2,898.7	2,898.7	2,898.7	4.6	4.8	-177.51	-7.2	29.9	58.6	51.3	7.36	7.966	
3,000.0	2,997.7	2,997.7	2,997.7	4.6	4.9	-177.99	-7.2	29.9	72.5	65.1	7.45	9.730	
3,100.0	3,096.8	3,096.8	3,096.8	4.7	5.0	-178.31	-7.2	29.9	86.4	78.9	7.56	11.440	
3,200.0	3,195.8	3,195.8	3,195.8	4.8	5.1	-178.55	-7.2	29.9	100.4	92.7	7.66	13.095	
3,300.0	3,294.8	3,294.8	3,294.8	4.8	5.2	-178.72	-7.2	29.9	114.3	106.5	7.78	14.696	
3,400.0	3,393.8	3,393.8	3,393.8	4.9	5.3	-178.86	-7.2	29.9	128.2	120.3	7.89	16.243	
3,500.0	3,492.9	3,492.9	3,492.9	5.0	5.4	-178.97	-7.2	29.9	142.1	134.1	8.01	17.737	
3,600.0	3,591.9	3,591.9	3,591.9	5.0	5.5	-179.07	-7.2	29.9	156.0	147.9	8.13	19.178	
3,700.0	3,690.9	3,690.9	3,690.9	5.1	5.6	-179.14	-7.2	29.9	169.9	161.7	8.26	20.568	
3,800.0	3,789.9	3,789.9	3,789.9	5.2	5.8	-179.21	-7.2	29.9	183.8	175.4	8.39	21.907	
3,900.0	3,889.0	3,889.0	3,889.0	5.3	5.9	-179.26	-7.2	29.9	197.8	189.2	8.52	23.197	
4,000.0	3,988.0	3,988.0	3,988.0	5.3	6.0	-179.31	-7.2	29.9	211.7	203.0	8.66	24.440	
4,100.0	4,087.0	4,087.0	4,087.0	5.4	6.1	-179.35	-7.2	29.9	225.6	216.8	8.80	25.636	
4,200.0	4,186.0	4,186.0	4,186.0	5.5	6.2	-179.39	-7.2	29.9	239.5	230.6	8.94	26.788	
4,300.0	4,285.1	4,285.1	4,285.1	5.6	6.3	-179.42	-7.2	29.9	253.4	244.3	9.08	27.897	
4,400.0	4,384.1	4,384.1	4,384.1	5.7	6.4	-179.45	-7.2	29.9	267.3	258.1	9.23	28.964	
4,500.0	4,483.1	4,483.1	4,483.1	5.8	6.6	-179.48	-7.2	29.9	281.3	271.9	9.38	29.991	
4,600.0	4,582.2	4,582.2	4,582.2	5.9	6.7	-179.51	-7.2	29.9	295.2	285.6	9.53	30.979	
4,700.0	4,681.2	4,681.2	4,681.2	6.0	6.8	-179.53	-7.2	29.9	309.1	299.4	9.68	31.930	
4,800.0	4,780.2	4,780.2	4,780.2	6.1	6.9	-179.55	-7.2	29.9	323.0	313.2	9.83	32.846	
4,900.0	4,879.2	4,879.2	4,879.2	6.2	7.0	-179.57	-7.2	29.9	336.9	326.9	9.99	33.727	
5,000.0	4,978.3	4,978.3	4,978.3	6.3	7.1	-179.58	-7.2	29.9	350.8	340.7	10.15	34.576	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10253-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)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,077.3	5,077.3	5,077.3	6.4	7.3	-179.60	-7.2	29.9	364.8	354.5	10.31	35.393	
5,200.0	5,176.3	5,176.3	5,176.3	6.5	7.4	-179.62	-7.2	29.9	378.7	368.2	10.47	36.181	
5,300.0	5,275.3	5,275.3	5,275.3	6.6	7.5	-179.63	-7.2	29.9	392.6	382.0	10.63	36.939	
5,400.0	5,374.4	5,374.4	5,374.4	6.7	7.6	-179.64	-7.2	29.9	406.5	395.7	10.79	37.670	
5,500.0	5,473.4	5,473.4	5,473.4	6.8	7.7	-179.65	-7.2	29.9	420.4	409.5	10.96	38.374	
5,600.0	5,572.4	5,585.1	5,585.1	6.9	7.8	-179.64	-7.2	28.7	433.3	422.2	11.13	38.931	
5,700.0	5,671.5	5,702.4	5,702.3	7.0	7.9	-179.53	-7.2	22.8	442.3	430.9	11.34	39.000	
5,800.0	5,770.5	5,815.4	5,814.8	7.1	7.9	-179.34	-7.2	12.7	447.4	435.8	11.57	38.684	
5,900.0	5,869.5	5,915.3	5,914.2	7.2	8.0	-179.15	-7.2	2.7	451.4	439.7	11.77	38.365	
6,000.0	5,968.5	6,015.2	6,013.6	7.3	8.0	-178.96	-7.2	-7.3	455.5	443.5	11.97	38.049	
6,100.0	6,067.6	6,115.1	6,113.0	7.4	8.1	-178.77	-7.2	-17.4	459.6	447.4	12.18	37.734	
6,200.0	6,166.6	6,215.0	6,212.4	7.6	8.1	-178.59	-7.2	-27.4	463.6	451.2	12.39	37.423	
6,300.0	6,265.6	6,314.9	6,311.8	7.7	8.2	-178.42	-7.2	-37.4	467.7	455.1	12.60	37.115	
6,400.0	6,364.6	6,414.8	6,411.2	7.8	8.2	-178.24	-7.2	-47.4	471.8	458.9	12.82	36.811	
6,500.0	6,463.7	6,514.7	6,510.6	7.9	8.3	-178.07	-7.2	-57.5	475.8	462.8	13.03	36.511	
6,600.0	6,562.7	6,614.6	6,610.0	8.0	8.3	-177.90	-7.2	-67.5	479.9	466.7	13.25	36.215	
6,700.0	6,661.7	6,714.5	6,709.4	8.1	8.4	-177.73	-7.2	-77.5	484.0	470.5	13.47	35.924	
6,800.0	6,760.7	6,814.5	6,808.8	8.3	8.4	-177.57	-7.2	-87.6	488.1	474.4	13.70	35.638	
6,900.0	6,859.8	6,914.4	6,908.2	8.4	8.5	-177.41	-7.2	-97.6	492.2	478.3	13.92	35.357	
7,000.0	6,958.8	7,014.3	7,007.6	8.5	8.5	-177.25	-7.2	-107.6	496.3	482.1	14.15	35.082	
7,100.0	7,057.8	7,114.2	7,107.0	8.6	8.6	-177.10	-7.2	-117.6	500.4	486.0	14.37	34.811	
7,200.0	7,156.9	7,214.1	7,206.4	8.8	8.7	-176.94	-7.2	-127.7	504.5	489.9	14.60	34.546	
7,300.0	7,255.9	7,314.0	7,305.8	8.9	8.7	-176.79	-7.2	-137.7	508.6	493.7	14.83	34.286	
7,400.0	7,354.9	7,413.9	7,405.2	9.0	8.8	-176.65	-7.2	-147.7	512.7	497.6	15.07	34.032	
7,500.0	7,453.9	7,513.8	7,504.6	9.1	8.9	-176.50	-7.2	-157.7	516.8	501.5	15.30	33.782	
7,600.0	7,553.0	7,613.7	7,604.0	9.3	9.0	-176.36	-7.2	-167.8	520.9	505.4	15.53	33.538	
7,700.0	7,652.0	7,713.6	7,703.4	9.4	9.0	-176.22	-7.2	-177.8	525.0	509.3	15.77	33.299	
7,800.0	7,751.0	7,813.5	7,802.8	9.5	9.1	-176.08	-7.2	-187.8	529.2	513.2	16.00	33.066	
7,900.0	7,850.0	7,913.4	7,902.2	9.6	9.2	-175.94	-7.2	-197.8	533.3	517.1	16.24	32.837	
8,000.0	7,949.1	8,013.3	8,001.6	9.8	9.3	-175.81	-7.2	-207.9	537.4	520.9	16.48	32.613	
8,100.0	8,048.1	8,113.2	8,101.0	9.9	9.3	-175.67	-7.2	-217.9	541.6	524.8	16.72	32.394	
8,200.0	8,147.1	8,213.1	8,200.4	10.0	9.4	-175.54	-7.2	-227.9	545.7	528.7	16.96	32.180	
8,300.0	8,246.1	8,313.1	8,299.8	10.2	9.5	-175.42	-7.2	-238.0	549.8	532.6	17.20	31.971	
8,400.0	8,345.2	8,413.0	8,399.2	10.3	9.6	-175.29	-7.2	-248.0	554.0	536.5	17.44	31.766	
8,500.0	8,444.2	8,512.9	8,498.6	10.4	9.7	-175.16	-7.2	-258.0	558.1	540.4	17.68	31.566	
8,600.0	8,543.2	8,612.8	8,598.0	10.6	9.8	-175.04	-7.2	-268.0	562.3	544.3	17.92	31.370	
8,700.0	8,642.3	8,712.7	8,697.4	10.7	9.9	-174.92	-7.2	-278.1	566.4	548.2	18.17	31.178	
8,800.0	8,741.3	8,812.6	8,796.8	10.8	9.9	-174.80	-7.2	-288.1	570.6	552.1	18.41	30.990	
8,900.0	8,840.3	8,912.5	8,896.2	11.0	10.0	-174.68	-7.2	-298.1	574.7	556.1	18.66	30.807	
9,009.6	8,948.8	9,022.0	9,005.2	11.1	10.1	-174.56	-7.2	-309.1	579.3	560.3	18.92	30.610	
9,100.0	9,038.5	9,112.4	9,095.1	11.2	10.2	-174.44	-7.2	-318.2	581.6	562.5	19.15	30.376	
9,200.0	9,138.1	9,212.3	9,194.6	11.4	10.3	-174.28	-7.2	-328.2	580.9	561.5	19.40	29.948	
9,300.0	9,238.0	9,312.2	9,293.9	11.5	10.4	-174.08	-7.2	-338.2	576.7	557.1	19.65	29.351	
9,409.6	9,347.5	9,421.4	9,402.6	11.6	10.5	105.09	-7.2	-349.2	568.2	548.3	19.90	28.555	
9,500.0	9,437.9	9,511.4	9,492.1	11.7	10.6	105.33	-7.2	-358.2	559.4	539.3	20.08	27.862	
9,600.0	9,537.9	9,610.9	9,591.1	11.8	10.7	105.61	-7.2	-368.2	549.7	529.4	20.28	27.108	
9,700.0	9,637.9	9,710.4	9,690.1	11.8	10.8	105.90	-7.2	-378.2	540.1	519.6	20.48	26.366	
9,800.0	9,737.9	9,809.9	9,789.1	11.9	10.9	106.19	-7.2	-388.2	530.4	509.7	20.69	25.637	
9,900.0	9,837.9	9,909.4	9,888.1	12.0	11.0	106.50	-7.2	-398.2	520.8	499.9	20.90	24.920	
10,000.0	9,937.9	10,008.9	9,987.1	12.1	11.1	106.82	-7.2	-408.1	511.2	490.0	21.11	24.216	
10,100.0	10,037.9	10,108.4	10,086.1	12.2	11.2	107.15	-7.2	-418.1	501.6	480.0	21.60	23.218	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10253-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)	Minimum Separation (usft)	Separation Factor	Warning
10,186.6	10,124.5	10,194.5	10,171.7	12.2	11.3	107.45	-7.2	-426.8	493.3	471.5	21.75	22.681	
10,200.0	10,137.9	10,207.9	10,185.1	12.2	11.3	-72.32	-7.2	-428.1	491.9	470.1	21.77	22.599	
10,225.0	10,162.9	10,232.7	10,209.8	12.2	11.3	-72.70	-7.2	-430.6	489.1	467.3	21.79	22.450	
10,250.0	10,187.8	10,257.4	10,234.4	12.2	11.4	-73.28	-7.2	-433.1	485.9	464.1	21.79	22.301	
10,275.0	10,212.4	10,280.8	10,257.6	12.2	11.4	-74.04	-7.2	-435.4	482.4	460.6	21.77	22.161	
10,300.0	10,236.9	10,300.0	10,276.7	12.2	11.4	-74.81	-7.8	-437.4	478.7	457.0	21.71	22.051	
10,325.0	10,261.0	10,318.7	10,295.3	12.3	11.4	-75.61	-9.1	-439.2	475.0	453.3	21.65	21.941	
10,350.0	10,284.8	10,337.8	10,314.2	12.3	11.4	-76.46	-11.1	-441.1	471.3	449.7	21.59	21.826	
10,375.0	10,308.1	10,357.1	10,333.2	12.3	11.4	-77.35	-14.0	-443.0	467.6	446.0	21.54	21.711	
10,400.0	10,330.9	10,375.0	10,350.7	12.3	11.4	-78.24	-17.3	-444.8	463.9	442.4	21.47	21.601	
10,425.0	10,353.2	10,396.0	10,371.0	12.3	11.4	-79.24	-22.0	-446.8	460.2	438.8	21.42	21.482	
10,450.0	10,374.8	10,415.7	10,389.9	12.3	11.4	-80.24	-27.3	-448.7	456.6	435.3	21.37	21.372	
10,475.0	10,395.7	10,435.5	10,408.7	12.4	11.4	-81.27	-33.4	-450.5	453.1	431.8	21.31	21.266	
10,500.0	10,415.9	10,455.5	10,427.4	12.4	11.4	-82.34	-40.3	-452.4	449.7	428.5	21.25	21.167	
10,525.0	10,435.3	10,475.0	10,445.3	12.4	11.4	-83.40	-47.8	-454.1	446.4	425.2	21.18	21.076	
10,550.0	10,453.8	10,496.2	10,464.4	12.4	11.5	-84.54	-56.8	-456.0	443.3	422.2	21.12	20.986	
10,575.0	10,471.5	10,516.8	10,482.6	12.5	11.5	-85.69	-66.3	-457.8	440.3	419.2	21.06	20.906	
10,600.0	10,488.2	10,537.7	10,500.6	12.5	11.5	-86.85	-76.8	-459.5	437.5	416.5	21.00	20.832	
10,625.0	10,503.9	10,558.9	10,518.3	12.5	11.5	-88.03	-88.2	-461.2	434.9	414.0	20.95	20.763	
10,650.0	10,518.5	10,580.3	10,535.7	12.5	11.5	-89.23	-100.5	-462.9	432.5	411.6	20.90	20.698	
10,675.0	10,532.1	10,602.0	10,552.8	12.6	11.5	-90.43	-113.8	-464.5	430.4	409.6	20.86	20.633	
10,700.0	10,544.6	10,624.0	10,569.5	12.6	11.5	-91.65	-128.0	-466.1	428.5	407.7	20.84	20.566	
10,725.0	10,555.9	10,646.4	10,585.8	12.6	11.6	-92.87	-143.3	-467.7	427.0	406.1	20.83	20.493	
10,750.0	10,566.0	10,669.1	10,601.6	12.7	11.6	-94.10	-159.5	-469.2	425.7	404.8	20.86	20.409	
10,775.0	10,574.9	10,692.2	10,616.8	12.7	11.6	-95.32	-176.8	-470.6	424.6	403.7	20.91	20.311	
10,800.0	10,582.6	10,715.7	10,631.5	12.7	11.6	-96.54	-195.2	-471.9	424.0	403.0	20.99	20.194	
10,825.0	10,589.0	10,739.6	10,645.5	12.8	11.7	-97.76	-214.6	-473.2	423.6	402.5	21.12	20.055	
10,841.7	10,592.6	10,755.8	10,654.4	12.8	11.7	-98.56	-228.1	-474.0	423.5	402.3	21.23	19.948	
10,850.0	10,594.1	10,764.0	10,658.7	12.8	11.7	-98.96	-235.0	-474.4	423.5	402.2	21.29	19.890	
10,875.0	10,598.0	10,788.9	10,671.1	12.8	11.7	-100.15	-256.6	-475.6	423.8	402.3	21.51	19.700	
10,900.0	10,600.6	10,814.4	10,682.6	12.9	11.8	-101.32	-279.2	-476.6	424.4	402.6	21.78	19.484	
10,925.0	10,601.8	10,840.3	10,693.1	12.9	11.8	-102.47	-303.0	-477.5	425.3	403.2	22.10	19.245	
10,936.6	10,602.0	10,852.5	10,697.6	12.9	11.8	-102.99	-314.3	-477.9	425.8	403.6	22.26	19.127	
11,000.0	10,602.0	10,923.2	10,717.8	13.0	11.9	-105.68	-381.9	-479.5	428.7	405.4	23.24	18.449	
11,100.0	10,602.0	11,040.3	10,729.0	13.2	12.1	-107.16	-498.3	-479.8	430.4	406.0	24.48	17.581	
11,200.0	10,602.0	11,140.3	10,729.0	13.4	12.2	-107.16	-598.3	-479.2	430.5	405.2	25.24	17.055	
11,300.0	10,602.0	11,240.3	10,729.0	13.7	12.5	-107.16	-698.3	-478.6	430.5	404.4	26.08	16.503	
11,400.0	10,602.0	11,340.3	10,729.0	14.1	12.7	-107.16	-798.3	-477.9	430.5	403.5	27.01	15.936	
11,500.0	10,602.0	11,440.3	10,729.0	14.6	13.1	-107.16	-898.3	-477.3	430.5	402.5	28.01	15.367	
11,600.0	10,602.0	11,540.3	10,729.0	15.1	13.5	-107.16	-998.3	-476.6	430.5	401.4	29.08	14.803	
11,700.0	10,602.0	11,640.3	10,729.0	15.6	14.0	-107.16	-1,098.3	-476.0	430.5	400.3	30.21	14.251	
11,800.0	10,602.0	11,740.3	10,729.0	16.2	14.6	-107.16	-1,198.3	-475.4	430.5	399.1	31.39	13.716	
11,900.0	10,602.0	11,840.3	10,729.0	16.8	15.1	-107.16	-1,298.2	-474.7	430.5	397.9	32.61	13.200	
12,000.0	10,602.0	11,940.3	10,729.0	17.4	15.8	-107.16	-1,398.2	-474.1	430.5	396.6	33.88	12.706	
12,100.0	10,602.0	12,040.3	10,729.0	18.1	16.4	-107.16	-1,498.2	-473.4	430.5	395.3	35.19	12.235	
12,200.0	10,602.0	12,140.3	10,729.0	18.8	17.1	-107.16	-1,598.2	-472.8	430.5	394.0	36.53	11.786	
12,300.0	10,602.0	12,240.3	10,729.0	19.5	17.8	-107.16	-1,698.2	-472.2	430.5	392.6	37.90	11.361	
12,400.0	10,602.0	12,340.3	10,729.0	20.2	18.5	-107.16	-1,798.2	-471.5	430.5	391.2	39.29	10.958	
12,500.0	10,602.0	12,440.3	10,729.0	20.9	19.2	-107.16	-1,898.2	-470.9	430.5	389.8	40.71	10.576	
12,600.0	10,602.0	12,540.3	10,729.0	21.6	19.9	-107.16	-1,998.2	-470.2	430.5	388.4	42.15	10.215	
12,700.0	10,602.0	12,640.3	10,729.0	22.4	20.7	-107.15	-2,098.2	-469.6	430.6	386.9	43.61	9.873	

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 WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10253-MWD+IFR1+FDIR — **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)	Minimum Separation (usft)	Separation Factor	Warning
12,800.0	10,602.0	12,740.3	10,729.0	23.1	21.5	-107.15	-2,198.2	-469.0	430.6	385.5	45.09	9.550	
12,900.0	10,602.0	12,840.3	10,729.0	23.9	22.2	-107.15	-2,298.2	-468.3	430.6	384.0	46.58	9.244	
13,000.0	10,602.0	12,940.3	10,729.0	24.7	23.0	-107.15	-2,398.2	-467.7	430.6	382.5	48.09	8.954	
13,100.0	10,602.0	13,040.3	10,729.0	25.4	23.8	-107.15	-2,498.2	-467.0	430.6	381.0	49.61	8.680	
13,200.0	10,602.0	13,140.3	10,729.0	26.2	24.6	-107.15	-2,598.2	-466.4	430.6	379.5	51.14	8.420	
13,300.0	10,602.0	13,240.3	10,729.0	27.0	25.4	-107.15	-2,698.2	-465.8	430.6	377.9	52.68	8.173	
13,400.0	10,602.0	13,340.3	10,729.0	27.8	26.1	-107.15	-2,798.2	-465.1	430.6	376.4	54.24	7.940	
13,500.0	10,602.0	13,440.3	10,729.0	28.6	27.0	-107.15	-2,898.2	-464.5	430.6	374.8	55.80	7.717	
13,600.0	10,602.0	13,540.3	10,729.0	29.4	27.8	-107.15	-2,998.2	-463.8	430.6	373.3	57.37	7.506	
13,700.0	10,602.0	13,640.3	10,729.0	30.2	28.6	-107.15	-3,098.2	-463.2	430.6	371.7	58.95	7.306	
13,800.0	10,602.0	13,740.3	10,729.0	31.0	29.4	-107.15	-3,198.2	-462.6	430.6	370.1	60.53	7.114	
13,900.0	10,602.0	13,840.3	10,729.0	31.8	30.2	-107.15	-3,298.2	-461.9	430.6	368.5	62.12	6.932	
14,000.0	10,602.0	13,940.3	10,729.0	32.6	31.0	-107.15	-3,398.2	-461.3	430.6	366.9	63.72	6.759	
14,100.0	10,602.0	14,040.3	10,729.0	33.4	31.8	-107.15	-3,498.2	-460.6	430.7	365.3	65.32	6.593	
14,200.0	10,602.0	14,140.3	10,729.0	34.2	32.6	-107.15	-3,598.2	-460.0	430.7	363.7	66.93	6.435	
14,300.0	10,602.0	14,240.3	10,729.0	35.0	33.5	-107.15	-3,698.2	-459.4	430.7	362.1	68.54	6.283	
14,400.0	10,602.0	14,340.3	10,729.0	35.9	34.3	-107.15	-3,798.2	-458.7	430.7	360.5	70.16	6.138	
14,500.0	10,602.0	14,440.3	10,729.0	36.7	35.1	-107.15	-3,898.2	-458.1	430.7	358.9	71.78	6.000	
14,600.0	10,602.0	14,540.3	10,729.0	37.5	36.0	-107.15	-3,998.2	-457.4	430.7	357.3	73.41	5.867	
14,700.0	10,602.0	14,640.3	10,729.0	38.3	36.8	-107.15	-4,098.2	-456.8	430.7	355.7	75.04	5.740	
14,800.0	10,602.0	14,740.3	10,729.0	39.2	37.6	-107.15	-4,198.2	-456.2	430.7	354.0	76.67	5.618	
14,900.0	10,602.0	14,840.3	10,729.0	40.0	38.4	-107.15	-4,298.2	-455.5	430.7	352.4	78.31	5.500	
15,000.0	10,602.0	14,940.3	10,729.0	40.8	39.3	-107.15	-4,398.2	-454.9	430.7	350.8	79.94	5.388	
15,100.0	10,602.0	15,040.3	10,729.0	41.6	40.1	-107.15	-4,498.2	-454.2	430.7	349.1	81.59	5.279	
15,200.0	10,602.0	15,140.3	10,729.0	42.5	41.0	-107.15	-4,598.2	-453.6	430.7	347.5	83.23	5.175	
15,300.0	10,602.0	15,240.3	10,729.0	43.3	41.8	-107.15	-4,698.2	-453.0	430.7	345.9	84.88	5.075	
15,400.0	10,602.0	15,340.3	10,729.0	44.1	42.6	-107.15	-4,798.2	-452.3	430.7	344.2	86.53	4.978	
15,500.0	10,602.0	15,440.3	10,729.0	45.0	43.5	-107.15	-4,898.2	-451.7	430.8	342.6	88.18	4.885	
15,600.0	10,602.0	15,540.3	10,729.0	45.8	44.3	-107.15	-4,998.2	-451.0	430.8	340.9	89.83	4.795	
15,700.0	10,602.0	15,640.3	10,729.0	46.7	45.1	-107.15	-5,098.2	-450.4	430.8	339.3	91.49	4.708	
15,800.0	10,602.0	15,740.3	10,729.0	47.5	46.0	-107.15	-5,198.2	-449.8	430.8	337.6	93.15	4.625	
15,900.0	10,602.0	15,840.3	10,729.0	48.3	46.8	-107.15	-5,298.2	-449.1	430.8	336.0	94.81	4.544	
16,000.0	10,602.0	15,940.3	10,729.0	49.2	47.7	-107.15	-5,398.2	-448.5	430.8	334.3	96.47	4.466	
16,100.0	10,602.0	16,040.3	10,729.0	50.0	48.5	-107.15	-5,498.2	-447.8	430.8	332.7	98.13	4.390	
16,200.0	10,602.0	16,140.3	10,729.0	50.8	49.4	-107.15	-5,598.2	-447.2	430.8	331.0	99.79	4.317	
16,300.0	10,602.0	16,240.3	10,729.0	51.7	50.2	-107.14	-5,698.2	-446.6	430.8	329.3	101.46	4.246	
16,400.0	10,602.0	16,340.3	10,729.0	52.5	51.1	-107.14	-5,798.2	-445.9	430.8	327.7	103.13	4.178	
16,500.0	10,602.0	16,440.3	10,729.0	53.4	51.9	-107.14	-5,898.2	-445.3	430.8	326.0	104.80	4.111	
16,600.0	10,602.0	16,540.3	10,729.0	54.2	52.7	-107.14	-5,998.2	-444.6	430.8	324.4	106.47	4.047	
16,700.0	10,602.0	16,640.3	10,729.0	55.1	53.6	-107.14	-6,098.1	-444.0	430.8	322.7	108.14	3.984	
16,800.0	10,602.0	16,740.3	10,729.0	55.9	54.4	-107.14	-6,198.1	-443.4	430.8	321.0	109.81	3.924	
16,900.0	10,602.0	16,840.3	10,729.0	56.7	55.3	-107.14	-6,298.1	-442.7	430.9	319.4	111.48	3.865	
17,000.0	10,602.0	16,940.3	10,729.0	57.6	56.1	-107.14	-6,398.1	-442.1	430.9	317.7	113.16	3.808	
17,100.0	10,602.0	17,040.3	10,729.0	58.4	57.0	-107.14	-6,498.1	-441.4	430.9	316.0	114.83	3.752	
17,200.0	10,602.0	17,140.3	10,729.0	59.3	57.8	-107.14	-6,598.1	-440.8	430.9	314.4	116.51	3.698	
17,300.0	10,602.0	17,240.3	10,729.0	60.1	58.7	-107.14	-6,698.1	-440.2	430.9	312.7	118.18	3.646	
17,400.0	10,602.0	17,340.3	10,729.0	61.0	59.5	-107.14	-6,798.1	-439.5	430.9	311.0	119.86	3.595	
17,500.0	10,602.0	17,440.3	10,729.0	61.8	60.4	-107.14	-6,898.1	-438.9	430.9	309.4	121.54	3.545	
17,600.0	10,602.0	17,540.3	10,729.0	62.7	61.2	-107.14	-6,998.1	-438.2	430.9	307.7	123.22	3.497	
17,700.0	10,602.0	17,640.3	10,729.0	63.5	62.1	-107.14	-7,098.1	-437.6	430.9	306.0	124.90	3.450	
17,800.0	10,602.0	17,740.3	10,729.0	64.4	62.9	-107.14	-7,198.1	-437.0	430.9	304.3	126.58	3.404	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 10253-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)	Minimum Separation (usft)	Separation Factor	Warning
17,900.0	10,602.0	17,840.3	10,729.0	65.2	63.8	-107.14	-7,298.1	-436.3	430.9	302.7	128.27	3.360	
18,000.0	10,602.0	17,940.3	10,729.0	66.1	64.6	-107.14	-7,398.1	-435.7	430.9	301.0	129.95	3.316	
18,100.0	10,602.0	18,040.3	10,729.0	66.9	65.5	-107.14	-7,498.1	-435.0	430.9	299.3	131.63	3.274	
18,200.0	10,602.0	18,140.3	10,729.0	67.8	66.3	-107.14	-7,598.1	-434.4	430.9	297.6	133.32	3.233	
18,300.0	10,602.0	18,240.3	10,729.0	68.6	67.2	-107.14	-7,698.1	-433.8	431.0	296.0	135.00	3.192	
18,400.0	10,602.0	18,340.3	10,729.0	69.5	68.1	-107.14	-7,798.1	-433.1	431.0	294.3	136.68	3.153	
18,500.0	10,602.0	18,440.3	10,729.0	70.3	68.9	-107.14	-7,898.1	-432.5	431.0	292.6	138.37	3.115	
18,600.0	10,602.0	18,540.3	10,729.0	71.2	69.8	-107.14	-7,998.1	-431.8	431.0	290.9	140.06	3.077	
18,700.0	10,602.0	18,640.3	10,729.0	72.0	70.6	-107.14	-8,098.1	-431.2	431.0	289.2	141.74	3.041	
18,800.0	10,602.0	18,740.3	10,729.0	72.9	71.5	-107.14	-8,198.1	-430.6	431.0	287.6	143.43	3.005	
18,900.0	10,602.0	18,840.3	10,729.0	73.7	72.3	-107.14	-8,298.1	-429.9	431.0	285.9	145.12	2.970	
19,000.0	10,602.0	18,940.3	10,729.0	74.6	73.2	-107.14	-8,398.1	-429.3	431.0	284.2	146.81	2.936	
19,100.0	10,602.0	19,040.3	10,729.0	75.4	74.0	-107.14	-8,498.1	-428.6	431.0	282.5	148.50	2.902	
19,200.0	10,602.0	19,140.3	10,729.0	76.3	74.9	-107.14	-8,598.1	-428.0	431.0	280.8	150.19	2.870	
19,300.0	10,602.0	19,240.3	10,729.0	77.1	75.7	-107.14	-8,698.1	-427.4	431.0	279.1	151.87	2.838	
19,400.0	10,602.0	19,340.3	10,729.0	78.0	76.6	-107.14	-8,798.1	-426.7	431.0	277.5	153.56	2.807	
19,500.0	10,602.0	19,440.3	10,729.0	78.8	77.4	-107.14	-8,898.1	-426.1	431.0	275.8	155.26	2.776	
19,600.0	10,602.0	19,540.3	10,729.0	79.7	78.3	-107.14	-8,998.1	-425.4	431.0	274.1	156.95	2.746	
19,700.0	10,602.0	19,640.3	10,729.0	80.5	79.2	-107.14	-9,098.1	-424.8	431.0	272.4	158.64	2.717	
19,800.0	10,602.0	19,740.3	10,729.0	81.4	80.0	-107.13	-9,198.1	-424.2	431.1	270.7	160.33	2.689	
19,900.0	10,602.0	19,840.3	10,729.0	82.2	80.9	-107.13	-9,298.1	-423.5	431.1	269.0	162.02	2.661	
20,000.0	10,602.0	19,940.3	10,729.0	83.1	81.7	-107.13	-9,398.1	-422.9	431.1	267.4	163.71	2.633	
20,100.0	10,602.0	20,040.3	10,729.0	83.9	82.6	-107.13	-9,498.1	-422.2	431.1	265.7	165.41	2.606	
20,200.0	10,602.0	20,140.3	10,729.0	84.8	83.4	-107.13	-9,598.1	-421.6	431.1	264.0	167.10	2.580	
20,300.0	10,602.0	20,240.3	10,729.0	85.7	84.3	-107.13	-9,698.1	-421.0	431.1	262.3	168.79	2.554	
20,400.0	10,602.0	20,340.3	10,729.0	86.5	85.1	-107.13	-9,798.1	-420.3	431.1	260.6	170.49	2.529	
20,500.0	10,602.0	20,440.3	10,729.0	87.4	86.0	-107.13	-9,898.1	-419.7	431.1	258.9	172.18	2.504	
20,600.0	10,602.0	20,540.3	10,729.0	88.2	86.9	-107.13	-9,998.1	-419.0	431.1	257.2	173.87	2.479	
20,700.0	10,602.0	20,640.3	10,729.0	89.1	87.7	-107.13	-10,098.1	-418.4	431.1	255.6	175.57	2.456	
20,800.0	10,602.0	20,740.3	10,729.0	89.9	88.5	-107.13	-10,198.1	-417.8	431.1	254.0	177.16	2.434	
20,830.6	10,602.0	20,770.9	10,729.0	90.2	88.7	-107.13	-10,228.6	-417.6	431.1	253.5	177.60	2.428	
20,831.1	10,602.0	20,770.9	10,729.0	90.2	88.7	-107.13	-10,228.6	-417.6	431.1	253.5	177.60	2.427	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-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)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-104.44	-7.7	-30.0	31.0				
100.0	100.0	100.0	100.0	3.0	3.0	-104.44	-7.7	-30.0	31.0	25.0	6.00	5.162	
200.0	200.0	200.0	200.0	3.0	3.0	-104.44	-7.7	-30.0	31.0	24.9	6.04	5.129	
300.0	300.0	300.0	300.0	3.0	3.1	-104.44	-7.7	-30.0	31.0	24.9	6.12	5.061	
400.0	400.0	400.0	400.0	3.0	3.2	-104.44	-7.7	-30.0	31.0	24.7	6.25	4.962	
500.0	500.0	500.0	500.0	3.1	3.4	-104.44	-7.7	-30.0	31.0	24.6	6.40	4.840	
600.0	600.0	600.0	600.0	3.1	3.6	-104.44	-7.7	-30.0	31.0	24.4	6.59	4.701	
700.0	700.0	700.0	700.0	3.1	3.8	-104.44	-7.7	-30.0	31.0	24.2	6.81	4.551	
800.0	800.0	800.0	800.0	3.2	4.0	-104.44	-7.7	-30.0	31.0	23.9	7.05	4.396	
900.0	900.0	900.0	900.0	3.2	4.2	-104.44	-7.7	-30.0	31.0	23.7	7.31	4.240	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-104.44	-7.7	-30.0	31.0	23.4	7.59	4.085	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-104.44	-7.7	-30.0	31.0	23.1	7.88	3.934	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-104.44	-7.7	-30.0	31.0	22.8	8.18	3.788	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-104.44	-7.7	-30.0	31.0	22.5	8.50	3.647	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-104.44	-7.7	-30.0	31.0	22.2	8.82	3.514	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-104.44	-7.7	-30.0	31.0	21.8	9.15	3.386	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-104.44	-7.7	-30.0	31.0	21.5	9.49	3.265	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-104.44	-7.7	-30.0	31.0	21.2	9.83	3.151	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-104.44	-7.7	-30.0	31.0	20.8	10.19	3.043	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-104.44	-7.7	-30.0	31.0	20.4	10.54	2.940	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-104.44	-7.7	-30.0	31.0	20.1	10.90	2.843	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-104.44	-7.7	-30.0	31.0	19.7	11.26	2.751	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-104.44	-7.7	-30.0	31.0	19.4	11.63	2.664	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-104.44	-7.7	-30.0	31.0	19.0	12.00	2.582	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-104.44	-7.7	-30.0	31.0	18.6	12.38	2.504	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-104.44	-7.7	-30.0	31.0	18.2	12.75	2.430	CC
2,600.0	2,600.0	2,599.0	2,598.9	4.5	9.6	-23.78	-7.7	-31.7	31.1	17.9	13.11	2.369	
2,700.0	2,699.8	2,697.9	2,697.8	4.5	9.9	-25.09	-7.7	-36.8	31.3	17.8	13.44	2.326	
2,800.0	2,799.5	2,796.9	2,796.4	4.5	10.2	-27.25	-7.6	-45.4	31.7	17.9	13.78	2.297	
2,900.0	2,898.7	2,896.2	2,894.9	4.6	10.5	-30.29	-7.4	-57.2	32.1	18.0	14.14	2.271	
3,000.0	2,997.7	2,996.1	2,994.1	4.6	10.9	-34.37	-7.3	-69.9	31.9	17.4	14.53	2.197	
3,058.5	3,055.6	3,054.6	3,052.1	4.7	11.1	-36.77	-7.2	-77.3	31.9	17.1	14.77	2.160	
3,100.0	3,096.8	3,096.1	3,093.3	4.7	11.2	-38.48	-7.2	-82.6	31.9	17.0	14.94	2.137	
3,200.0	3,195.8	3,196.1	3,192.4	4.8	11.6	-42.56	-7.1	-95.2	32.1	16.7	15.35	2.089	
3,300.0	3,294.8	3,296.1	3,291.6	4.8	11.9	-46.59	-6.9	-107.9	32.4	16.6	15.77	2.053	ES
3,400.0	3,393.8	3,396.0	3,390.8	4.9	12.2	-50.52	-6.8	-120.6	32.8	16.6	16.20	2.027	
3,500.0	3,492.9	3,496.0	3,489.9	5.0	12.6	-54.33	-6.7	-133.3	33.5	16.8	16.64	2.011	
3,600.0	3,591.9	3,596.0	3,589.1	5.0	12.9	-57.98	-6.5	-146.0	34.2	17.1	17.08	2.004	
3,700.0	3,690.9	3,696.0	3,688.2	5.1	13.3	-61.46	-6.4	-158.7	35.1	17.6	17.53	2.004	SF
3,800.0	3,789.9	3,795.9	3,787.4	5.2	13.6	-64.75	-6.3	-171.4	36.1	18.2	17.98	2.010	
3,900.0	3,889.0	3,895.9	3,886.6	5.3	14.0	-67.86	-6.1	-184.1	37.3	18.8	18.43	2.022	
4,000.0	3,988.0	3,995.9	3,985.7	5.3	14.3	-70.78	-6.0	-196.7	38.5	19.6	18.88	2.038	
4,100.0	4,087.0	4,095.8	4,084.9	5.4	14.7	-73.50	-5.9	-209.4	39.8	20.5	19.34	2.059	
4,200.0	4,186.0	4,195.8	4,184.1	5.5	15.0	-76.05	-5.7	-222.1	41.2	21.4	19.80	2.082	
4,300.0	4,285.1	4,295.8	4,283.2	5.6	15.4	-78.43	-5.6	-234.8	42.7	22.4	20.26	2.108	
4,400.0	4,384.1	4,395.8	4,382.4	5.7	15.7	-80.64	-5.5	-247.5	44.3	23.5	20.72	2.136	
4,500.0	4,483.1	4,495.7	4,481.6	5.8	16.1	-82.70	-5.4	-260.2	45.9	24.7	21.18	2.166	
4,600.0	4,582.2	4,595.7	4,580.7	5.9	16.4	-84.61	-5.2	-272.9	47.5	25.9	21.65	2.196	
4,700.0	4,681.2	4,695.7	4,679.9	6.0	16.8	-86.40	-5.1	-285.6	49.3	27.1	22.11	2.228	
4,800.0	4,780.2	4,795.7	4,779.1	6.1	17.1	-88.06	-5.0	-298.2	51.0	28.4	22.58	2.260	
4,900.0	4,879.2	4,895.6	4,878.2	6.2	17.5	-89.61	-4.8	-310.9	52.8	29.8	23.05	2.292	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,978.3	4,995.6	4,977.4	6.3	17.9	-91.06	-4.7	-323.6	54.7	31.2	23.52	2.325	
5,100.0	5,077.3	5,095.6	5,076.6	6.4	18.2	-92.41	-4.6	-336.3	56.5	32.6	23.99	2.357	
5,200.0	5,176.3	5,195.6	5,175.7	6.5	18.6	-93.68	-4.4	-349.0	58.4	34.0	24.46	2.389	
5,300.0	5,275.3	5,295.5	5,274.9	6.6	18.9	-94.86	-4.3	-361.7	60.4	35.4	24.93	2.421	
5,400.0	5,374.4	5,395.5	5,374.1	6.7	19.3	-95.97	-4.2	-374.4	62.3	36.9	25.41	2.453	
5,500.0	5,473.4	5,495.5	5,473.2	6.8	19.7	-97.02	-4.0	-387.0	64.3	38.4	25.88	2.484	
5,600.0	5,572.4	5,595.5	5,572.4	6.9	20.0	-98.00	-3.9	-399.7	66.3	39.9	26.36	2.515	
5,700.0	5,671.5	5,695.4	5,671.6	7.0	20.4	-98.92	-3.8	-412.4	68.3	41.5	26.84	2.545	
5,800.0	5,770.5	5,795.4	5,770.7	7.1	20.7	-99.79	-3.7	-425.1	70.3	43.0	27.32	2.575	
5,900.0	5,869.5	5,895.4	5,869.9	7.2	21.1	-100.61	-3.5	-437.8	72.4	44.6	27.80	2.604	
6,000.0	5,968.5	5,995.4	5,969.1	7.3	21.5	-101.39	-3.4	-450.5	74.4	46.2	28.28	2.632	
6,100.0	6,067.6	6,095.3	6,068.2	7.4	21.8	-102.12	-3.3	-463.2	76.5	47.8	28.76	2.660	
6,200.0	6,166.6	6,195.3	6,167.4	7.6	22.2	-102.82	-3.1	-475.9	78.6	49.4	29.25	2.687	
6,300.0	6,265.6	6,295.3	6,266.6	7.7	22.5	-103.48	-3.0	-488.5	80.7	51.0	29.73	2.714	
6,400.0	6,364.6	6,395.2	6,365.7	7.8	22.9	-104.10	-2.9	-501.2	82.8	52.6	30.22	2.740	
6,500.0	6,463.7	6,495.2	6,464.9	7.9	23.3	-104.70	-2.7	-513.9	84.9	54.2	30.71	2.765	
6,600.0	6,562.7	6,595.2	6,564.0	8.0	23.6	-105.26	-2.6	-526.6	87.0	55.8	31.20	2.790	
6,700.0	6,661.7	6,695.2	6,663.2	8.1	24.0	-105.80	-2.5	-539.3	89.2	57.5	31.69	2.814	
6,800.0	6,760.7	6,795.1	6,762.4	8.3	24.4	-106.32	-2.3	-552.0	91.3	59.1	32.18	2.837	
6,900.0	6,859.8	6,895.1	6,861.5	8.4	24.7	-106.81	-2.2	-564.7	93.5	60.8	32.68	2.860	
7,000.0	6,958.8	6,995.1	6,960.7	8.5	25.1	-107.27	-2.1	-577.4	95.6	62.4	33.17	2.882	
7,100.0	7,057.8	7,095.1	7,059.9	8.6	25.5	-107.72	-2.0	-590.0	97.8	64.1	33.67	2.904	
7,200.0	7,156.9	7,195.0	7,159.0	8.8	25.8	-108.15	-1.8	-602.7	99.9	65.8	34.16	2.925	
7,300.0	7,255.9	7,295.0	7,258.2	8.9	26.2	-108.56	-1.7	-615.4	102.1	67.4	34.66	2.946	
7,400.0	7,354.9	7,395.0	7,357.4	9.0	26.5	-108.95	-1.6	-628.1	104.3	69.1	35.16	2.966	
7,500.0	7,453.9	7,495.0	7,456.5	9.1	26.9	-109.33	-1.4	-640.8	106.5	70.8	35.66	2.985	
7,600.0	7,553.0	7,594.9	7,555.7	9.3	27.3	-109.69	-1.3	-653.5	108.6	72.5	36.16	3.004	
7,700.0	7,652.0	7,694.9	7,654.9	9.4	27.6	-110.04	-1.2	-666.2	110.8	74.2	36.67	3.023	
7,800.0	7,751.0	7,794.9	7,754.0	9.5	28.0	-110.37	-1.0	-678.9	113.0	75.8	37.17	3.041	
7,900.0	7,850.0	7,894.9	7,853.2	9.6	28.4	-110.69	-0.9	-691.5	115.2	77.5	37.67	3.058	
8,000.0	7,949.1	7,994.8	7,952.4	9.8	28.7	-111.00	-0.8	-704.2	117.4	79.2	38.18	3.075	
8,100.0	8,048.1	8,094.8	8,051.5	9.9	29.1	-111.30	-0.6	-716.9	119.6	80.9	38.69	3.092	
8,200.0	8,147.1	8,194.8	8,150.7	10.0	29.5	-111.58	-0.5	-729.6	121.8	82.6	39.19	3.108	
8,300.0	8,246.1	8,294.8	8,249.9	10.2	29.8	-111.86	-0.4	-742.3	124.0	84.3	39.70	3.124	
8,400.0	8,345.2	8,394.7	8,349.0	10.3	30.2	-112.13	-0.3	-755.0	126.2	86.0	40.21	3.139	
8,500.0	8,444.2	8,494.7	8,448.2	10.4	30.6	-112.39	-0.1	-767.7	128.4	87.7	40.72	3.154	
8,600.0	8,543.2	8,594.7	8,547.4	10.6	30.9	-112.64	0.0	-780.3	130.7	89.4	41.24	3.169	
8,700.0	8,642.3	8,694.6	8,646.5	10.7	31.3	-112.88	0.1	-793.0	132.9	91.1	41.75	3.183	
8,800.0	8,741.3	8,794.6	8,745.7	10.8	31.7	-113.11	0.3	-805.7	135.1	92.8	42.26	3.197	
8,900.0	8,840.3	8,894.6	8,844.9	11.0	32.0	-113.33	0.4	-818.4	137.3	94.6	42.78	3.210	
9,009.6	8,948.8	9,004.2	8,953.5	11.1	32.4	-113.57	0.5	-832.3	139.8	96.4	43.34	3.225	
9,100.0	9,038.5	9,094.5	9,043.2	11.2	32.8	-113.26	0.7	-843.8	141.2	97.4	43.79	3.225	
9,200.0	9,138.1	9,194.5	9,142.3	11.4	33.1	-111.66	0.8	-856.5	141.6	97.3	44.24	3.200	
9,300.0	9,238.0	9,294.2	9,241.2	11.5	33.5	-108.73	0.9	-869.1	140.8	96.2	44.62	3.157	
9,409.6	9,347.5	9,403.1	9,349.3	11.6	33.9	174.97	1.1	-882.9	139.5	94.5	44.95	3.103	
9,500.0	9,437.9	9,492.8	9,438.2	11.7	34.2	179.65	1.2	-894.3	138.8	93.6	45.20	3.071	
9,518.1	9,456.0	9,510.8	9,456.0	11.7	34.3	-179.41	1.2	-896.6	138.8	93.6	45.25	3.068	
9,600.0	9,537.9	9,592.0	9,536.6	11.8	34.6	-175.16	1.3	-906.9	139.2	93.7	45.45	3.063	
9,700.0	9,637.9	9,691.2	9,635.0	11.8	35.0	-170.04	1.4	-919.5	140.7	95.0	45.68	3.081	
9,800.0	9,737.9	9,790.4	9,733.4	11.9	35.3	-165.07	1.6	-932.1	143.3	97.4	45.89	3.123	
9,900.0	9,837.9	9,889.6	9,831.8	12.0	35.7	-160.30	1.7	-944.7	147.0	100.9	46.11	3.189	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-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)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,937.9	9,988.8	9,930.2	12.1	36.1	-155.80	1.8	-957.3	151.7	105.3	46.33	3.274	
10,100.0	10,037.9	10,088.0	10,028.6	12.2	36.4	-151.59	2.0	-969.9	157.2	110.6	46.62	3.372	
10,186.6	10,124.5	10,173.8	10,113.7	12.2	36.7	-148.18	2.1	-980.7	162.7	115.8	46.84	3.473	
10,200.0	10,137.9	10,187.2	10,127.0	12.2	36.8	32.68	2.1	-982.4	163.4	116.5	46.87	3.486	
10,225.0	10,162.9	10,211.9	10,151.5	12.2	36.9	33.82	2.1	-985.6	164.0	117.1	46.93	3.494	
10,250.0	10,187.8	10,236.6	10,176.0	12.2	37.0	35.28	2.2	-988.7	163.6	116.6	46.99	3.481	
10,275.0	10,212.4	10,261.0	10,200.2	12.2	37.1	37.07	2.2	-991.8	162.2	115.2	47.04	3.448	
10,300.0	10,236.9	10,285.3	10,224.3	12.2	37.2	39.22	2.2	-994.9	160.0	112.9	47.09	3.397	
10,325.0	10,261.0	10,309.2	10,248.0	12.3	37.2	41.78	2.2	-997.9	157.0	109.8	47.14	3.330	
10,350.0	10,284.8	10,331.2	10,269.8	12.3	37.3	44.56	2.2	-1,000.7	153.3	106.1	47.21	3.248	
10,375.0	10,308.1	10,350.0	10,288.5	12.3	37.4	47.26	1.7	-1,003.3	149.8	102.5	47.32	3.166	
10,400.0	10,330.9	10,367.8	10,306.1	12.3	37.5	50.02	0.5	-1,005.9	146.6	99.2	47.47	3.089	
10,425.0	10,353.2	10,386.3	10,324.2	12.3	37.5	53.05	-1.4	-1,008.8	143.9	96.3	47.64	3.021	
10,450.0	10,374.8	10,404.9	10,342.4	12.3	37.6	56.24	-3.9	-1,011.8	141.8	94.0	47.83	2.964	
10,475.0	10,395.7	10,425.0	10,361.8	12.4	37.7	59.81	-7.5	-1,015.4	140.3	92.3	48.03	2.922	
10,500.0	10,415.9	10,442.5	10,378.6	12.4	37.7	63.01	-11.3	-1,018.6	139.6	91.3	48.29	2.891	
10,509.7	10,423.5	10,450.0	10,385.7	12.4	37.8	64.39	-13.1	-1,020.0	139.5	91.2	48.38	2.884	
10,525.0	10,435.3	10,461.5	10,396.7	12.4	37.8	66.51	-16.0	-1,022.3	139.7	91.2	48.55	2.878	
10,550.0	10,453.8	10,480.7	10,414.6	12.4	37.9	70.02	-21.5	-1,026.2	140.8	91.9	48.82	2.883	
10,575.0	10,471.5	10,500.0	10,432.4	12.5	37.9	73.48	-27.8	-1,030.3	142.7	93.6	49.09	2.908	
10,600.0	10,488.2	10,519.6	10,450.1	12.5	38.0	76.88	-34.8	-1,034.6	145.7	96.3	49.36	2.952	
10,625.0	10,503.9	10,539.4	10,467.7	12.5	38.1	80.14	-42.7	-1,039.1	149.7	100.0	49.61	3.017	
10,650.0	10,518.5	10,559.4	10,485.1	12.5	38.1	83.25	-51.3	-1,043.9	154.6	104.7	49.84	3.101	
10,675.0	10,532.1	10,579.7	10,502.3	12.6	38.2	86.18	-60.9	-1,048.8	160.4	110.4	50.04	3.206	
10,700.0	10,544.6	10,600.2	10,519.3	12.6	38.3	88.91	-71.2	-1,054.0	167.1	116.9	50.20	3.328	
10,725.0	10,555.9	10,621.2	10,536.1	12.6	38.3	91.43	-82.5	-1,059.4	174.6	124.2	50.32	3.469	
10,750.0	10,566.0	10,642.4	10,552.6	12.7	38.4	93.75	-94.7	-1,065.1	182.8	132.3	50.42	3.625	
10,775.0	10,574.9	10,664.2	10,568.8	12.7	38.5	95.85	-107.9	-1,071.0	191.6	141.1	50.48	3.796	
10,800.0	10,582.6	10,686.3	10,584.6	12.7	38.5	97.77	-122.1	-1,077.1	201.0	150.5	50.51	3.980	
10,825.0	10,589.0	10,709.0	10,600.1	12.8	38.6	99.49	-137.4	-1,083.6	210.9	160.4	50.51	4.176	
10,850.0	10,594.1	10,732.3	10,615.1	12.8	38.7	101.05	-153.9	-1,090.2	221.3	170.8	50.50	4.382	
10,875.0	10,598.0	10,756.2	10,629.7	12.8	38.7	102.44	-171.5	-1,097.2	232.0	181.6	50.46	4.598	
10,900.0	10,600.6	10,780.8	10,643.6	12.9	38.8	103.69	-190.4	-1,104.5	243.0	192.6	50.41	4.821	
10,925.0	10,601.8	10,806.2	10,657.0	12.9	38.8	104.82	-210.7	-1,112.1	254.3	203.9	50.34	5.051	
10,936.6	10,602.0	10,818.2	10,662.9	12.9	38.9	105.29	-220.5	-1,115.7	259.5	209.2	50.30	5.159	
11,000.0	10,602.0	10,890.4	10,692.7	13.0	39.0	110.32	-282.5	-1,137.4	287.4	237.3	50.09	5.738	
11,100.0	10,602.0	11,023.5	10,720.7	13.2	39.3	112.61	-406.1	-1,176.8	323.6	273.6	50.02	6.470	
11,200.0	10,602.0	11,140.4	10,722.0	13.4	39.5	110.73	-518.5	-1,208.4	349.6	299.2	50.49	6.925	
11,300.0	10,602.0	11,250.6	10,722.0	13.7	39.7	109.26	-625.7	-1,234.0	372.1	321.1	51.06	7.288	
11,400.0	10,602.0	11,362.7	10,722.0	14.1	39.9	108.16	-735.7	-1,255.7	391.2	339.5	51.66	7.571	
11,500.0	10,602.0	11,476.5	10,722.0	14.6	40.2	107.34	-848.1	-1,273.4	406.6	354.3	52.30	7.774	
11,600.0	10,602.0	11,591.6	10,722.0	15.1	40.4	106.77	-962.5	-1,286.8	418.3	365.3	52.97	7.897	
11,700.0	10,602.0	11,707.7	10,722.0	15.6	40.7	106.40	-1,078.2	-1,295.6	426.1	372.5	53.66	7.942	
11,800.0	10,602.0	11,824.4	10,722.0	16.2	40.9	106.21	-1,194.8	-1,299.7	430.1	375.8	54.37	7.912	
11,900.0	10,602.0	11,933.2	10,722.0	16.8	41.2	106.19	-1,303.6	-1,299.6	430.7	375.5	55.12	7.812	
12,000.0	10,602.0	12,033.2	10,722.0	17.4	41.4	106.19	-1,403.6	-1,299.0	430.6	374.7	55.96	7.695	
12,100.0	10,602.0	12,133.2	10,722.0	18.1	41.7	106.19	-1,503.6	-1,298.3	430.6	373.8	56.84	7.576	
12,200.0	10,602.0	12,233.2	10,722.0	18.8	42.0	106.19	-1,603.6	-1,297.7	430.6	372.9	57.75	7.456	
12,300.0	10,602.0	12,333.2	10,722.0	19.5	42.3	106.19	-1,703.6	-1,297.0	430.6	371.9	58.69	7.337	
12,400.0	10,602.0	12,433.2	10,722.0	20.2	42.6	106.19	-1,803.6	-1,296.4	430.6	370.9	59.66	7.217	
12,500.0	10,602.0	12,533.2	10,722.0	20.9	42.9	106.19	-1,903.6	-1,295.7	430.5	369.9	60.66	7.098	

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 WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **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)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	10,602.0	12,633.2	10,722.0	21.6	43.2	106.19	-2,003.6	-1,295.1	430.5	368.8	61.69	6.979	
12,700.0	10,602.0	12,733.2	10,722.0	22.4	43.6	106.19	-2,103.6	-1,294.4	430.5	367.8	62.74	6.862	
12,800.0	10,602.0	12,833.2	10,722.0	23.1	43.9	106.20	-2,203.6	-1,293.8	430.5	366.7	63.81	6.746	
12,900.0	10,602.0	12,933.2	10,722.0	23.9	44.3	106.20	-2,303.5	-1,293.1	430.5	365.6	64.91	6.632	
13,000.0	10,602.0	13,033.2	10,722.0	24.7	44.7	106.20	-2,403.5	-1,292.5	430.5	364.4	66.03	6.519	
13,100.0	10,602.0	13,133.2	10,722.0	25.4	45.1	106.20	-2,503.5	-1,291.8	430.4	363.3	67.17	6.408	
13,200.0	10,602.0	13,233.2	10,722.0	26.2	45.5	106.20	-2,603.5	-1,291.2	430.4	362.1	68.33	6.299	
13,300.0	10,602.0	13,333.2	10,722.0	27.0	45.9	106.20	-2,703.5	-1,290.5	430.4	360.9	69.51	6.192	
13,400.0	10,602.0	13,433.2	10,722.0	27.8	46.4	106.20	-2,803.5	-1,289.9	430.4	359.7	70.71	6.087	
13,500.0	10,602.0	13,533.2	10,722.0	28.6	46.8	106.20	-2,903.5	-1,289.2	430.4	358.5	71.93	5.984	
13,600.0	10,602.0	13,633.2	10,722.0	29.4	47.3	106.20	-3,003.5	-1,288.6	430.4	357.2	73.16	5.883	
13,700.0	10,602.0	13,733.2	10,722.0	30.2	47.7	106.20	-3,103.5	-1,287.9	430.3	355.9	74.41	5.784	
13,800.0	10,602.0	13,833.2	10,722.0	31.0	48.2	106.20	-3,203.5	-1,287.3	430.3	354.7	75.67	5.687	
13,900.0	10,602.0	13,933.2	10,722.0	31.8	48.7	106.20	-3,303.5	-1,286.6	430.3	353.4	76.95	5.592	
14,000.0	10,602.0	14,033.2	10,722.0	32.6	49.2	106.20	-3,403.5	-1,286.0	430.3	352.1	78.24	5.500	
14,100.0	10,602.0	14,133.2	10,722.0	33.4	49.7	106.20	-3,503.5	-1,285.3	430.3	350.7	79.54	5.409	
14,200.0	10,602.0	14,233.2	10,722.0	34.2	50.2	106.20	-3,603.5	-1,284.7	430.3	349.4	80.86	5.321	
14,300.0	10,602.0	14,333.2	10,722.0	35.0	50.8	106.20	-3,703.5	-1,284.0	430.2	348.0	82.19	5.234	
14,400.0	10,602.0	14,433.2	10,722.0	35.9	51.3	106.20	-3,803.5	-1,283.4	430.2	346.7	83.54	5.150	
14,500.0	10,602.0	14,533.2	10,722.0	36.7	51.8	106.20	-3,903.5	-1,282.7	430.2	345.3	84.89	5.068	
14,600.0	10,602.0	14,633.2	10,722.0	37.5	52.4	106.20	-4,003.5	-1,282.1	430.2	343.9	86.26	4.987	
14,700.0	10,602.0	14,733.2	10,722.0	38.3	53.0	106.21	-4,103.5	-1,281.4	430.2	342.5	87.63	4.909	
14,800.0	10,602.0	14,833.2	10,722.0	39.2	53.5	106.21	-4,203.5	-1,280.8	430.2	341.1	89.02	4.832	
14,900.0	10,602.0	14,933.2	10,722.0	40.0	54.1	106.21	-4,303.5	-1,280.1	430.1	339.7	90.41	4.758	
15,000.0	10,602.0	15,033.2	10,722.0	40.8	54.7	106.21	-4,403.5	-1,279.5	430.1	338.3	91.82	4.685	
15,100.0	10,602.0	15,133.2	10,722.0	41.6	55.3	106.21	-4,503.5	-1,278.8	430.1	336.9	93.23	4.613	
15,200.0	10,602.0	15,233.2	10,722.0	42.5	55.9	106.21	-4,603.5	-1,278.2	430.1	335.4	94.65	4.544	
15,300.0	10,602.0	15,333.2	10,722.0	43.3	56.5	106.21	-4,703.5	-1,277.5	430.1	334.0	96.08	4.476	
15,400.0	10,602.0	15,433.2	10,722.0	44.1	57.1	106.21	-4,803.5	-1,276.9	430.1	332.5	97.52	4.410	
15,500.0	10,602.0	15,533.2	10,722.0	45.0	57.7	106.21	-4,903.5	-1,276.2	430.0	331.1	98.97	4.345	
15,600.0	10,602.0	15,633.2	10,722.0	45.8	58.4	106.21	-5,003.5	-1,275.6	430.0	329.6	100.42	4.282	
15,700.0	10,602.0	15,733.2	10,722.0	46.7	59.0	106.21	-5,103.5	-1,274.9	430.0	328.1	101.88	4.220	
15,800.0	10,602.0	15,833.2	10,722.0	47.5	59.6	106.21	-5,203.5	-1,274.3	430.0	326.6	103.35	4.160	
15,900.0	10,602.0	15,933.2	10,722.0	48.3	60.3	106.21	-5,303.5	-1,273.6	430.0	325.1	104.83	4.102	
16,000.0	10,602.0	16,033.2	10,722.0	49.2	60.9	106.21	-5,403.5	-1,273.0	429.9	323.6	106.31	4.044	
16,100.0	10,602.0	16,133.2	10,722.0	50.0	61.6	106.21	-5,503.5	-1,272.3	429.9	322.1	107.80	3.988	
16,200.0	10,602.0	16,233.2	10,722.0	50.8	62.2	106.21	-5,603.5	-1,271.7	429.9	320.6	109.29	3.934	
16,300.0	10,602.0	16,333.2	10,722.0	51.7	62.9	106.21	-5,703.5	-1,271.0	429.9	319.1	110.79	3.880	
16,400.0	10,602.0	16,433.2	10,722.0	52.5	63.6	106.21	-5,803.5	-1,270.4	429.9	317.6	112.29	3.828	
16,500.0	10,602.0	16,533.2	10,722.0	53.4	64.2	106.22	-5,903.5	-1,269.7	429.9	316.1	113.80	3.777	
16,600.0	10,602.0	16,633.2	10,722.0	54.2	64.9	106.22	-6,003.5	-1,269.1	429.8	314.5	115.32	3.727	
16,700.0	10,602.0	16,733.2	10,722.0	55.1	65.6	106.22	-6,103.5	-1,268.4	429.8	313.0	116.84	3.679	
16,800.0	10,602.0	16,833.2	10,722.0	55.9	66.3	106.22	-6,203.5	-1,267.8	429.8	311.4	118.36	3.631	
16,900.0	10,602.0	16,933.2	10,722.0	56.7	67.0	106.22	-6,303.5	-1,267.1	429.8	309.9	119.89	3.585	
17,000.0	10,602.0	17,033.2	10,722.0	57.6	67.7	106.22	-6,403.5	-1,266.5	429.8	308.4	121.43	3.539	
17,100.0	10,602.0	17,133.2	10,722.0	58.4	68.4	106.22	-6,503.5	-1,265.8	429.8	306.8	122.96	3.495	
17,200.0	10,602.0	17,233.2	10,722.0	59.3	69.1	106.22	-6,603.5	-1,265.2	429.7	305.2	124.51	3.452	
17,300.0	10,602.0	17,333.2	10,722.0	60.1	69.8	106.22	-6,703.5	-1,264.5	429.7	303.7	126.05	3.409	
17,400.0	10,602.0	17,433.2	10,722.0	61.0	70.5	106.22	-6,803.5	-1,263.9	429.7	302.1	127.60	3.368	
17,500.0	10,602.0	17,533.2	10,722.0	61.8	71.2	106.22	-6,903.5	-1,263.2	429.7	300.5	129.16	3.327	
17,600.0	10,602.0	17,633.2	10,722.0	62.7	71.9	106.22	-7,003.4	-1,262.6	429.7	299.0	130.72	3.287	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

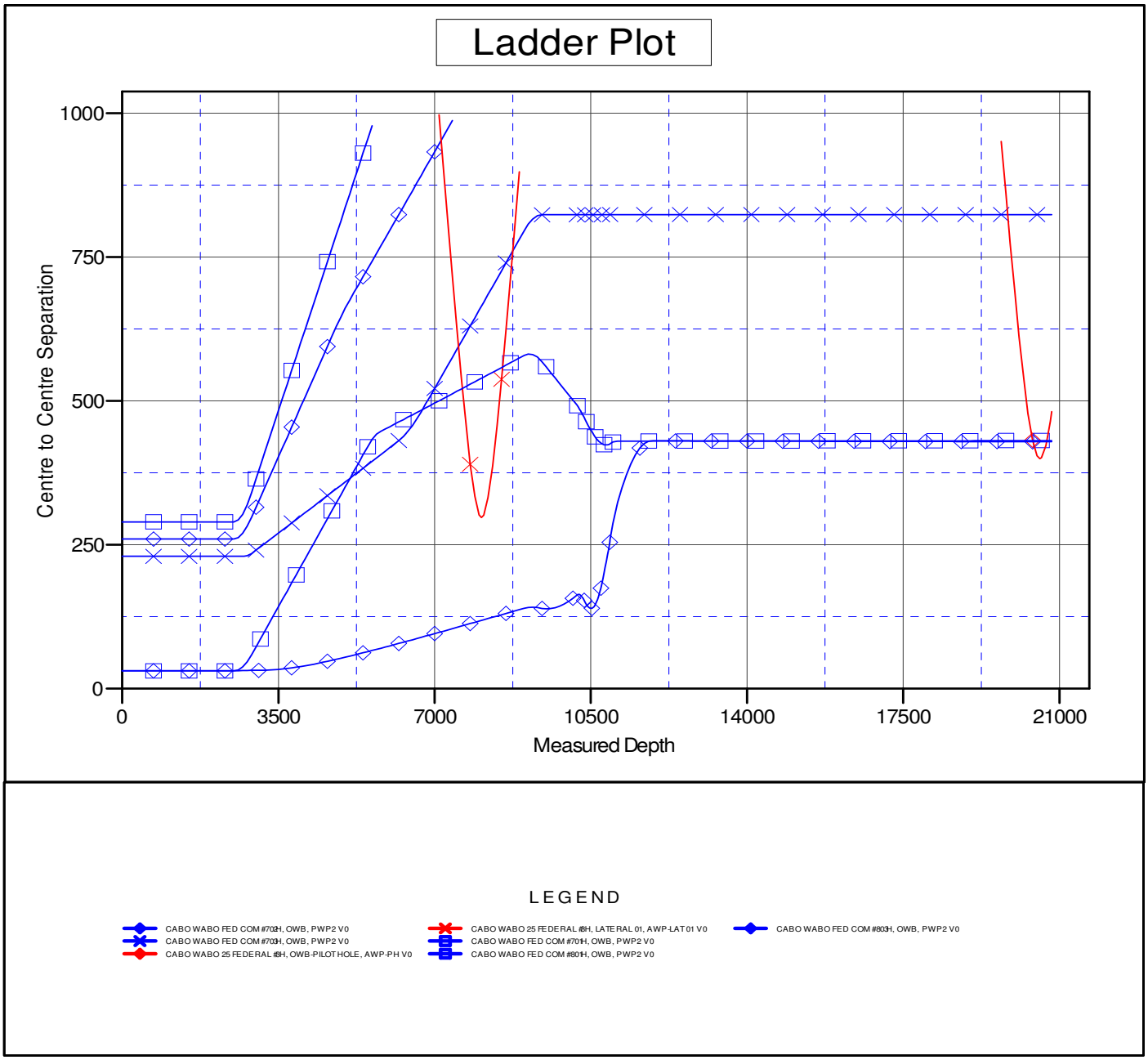
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	10,602.0	17,733.2	10,722.0	63.5	72.6	106.22	-7,103.4	-1,261.9	429.7	297.4	132.28	3.248	
17,800.0	10,602.0	17,833.2	10,722.0	64.4	73.3	106.22	-7,203.4	-1,261.3	429.6	295.8	133.84	3.210	
17,900.0	10,602.0	17,933.2	10,722.0	65.2	74.1	106.22	-7,303.4	-1,260.6	429.6	294.2	135.41	3.173	
18,000.0	10,602.0	18,033.2	10,722.0	66.1	74.8	106.22	-7,403.4	-1,260.0	429.6	292.6	136.98	3.136	
18,100.0	10,602.0	18,133.2	10,722.0	66.9	75.5	106.22	-7,503.4	-1,259.3	429.6	291.0	138.56	3.100	
18,200.0	10,602.0	18,233.2	10,722.0	67.8	76.3	106.22	-7,603.4	-1,258.7	429.6	289.4	140.14	3.065	
18,300.0	10,602.0	18,333.2	10,722.0	68.6	77.0	106.23	-7,703.4	-1,258.0	429.6	287.8	141.72	3.031	
18,400.0	10,602.0	18,433.2	10,722.0	69.5	77.7	106.23	-7,803.4	-1,257.4	429.5	286.2	143.30	2.997	
18,500.0	10,602.0	18,533.2	10,722.0	70.3	78.5	106.23	-7,903.4	-1,256.7	429.5	284.6	144.89	2.965	
18,600.0	10,602.0	18,633.2	10,722.0	71.2	79.2	106.23	-8,003.4	-1,256.1	429.5	283.0	146.47	2.932	
18,700.0	10,602.0	18,733.2	10,722.0	72.0	80.0	106.23	-8,103.4	-1,255.4	429.5	281.4	148.07	2.901	
18,800.0	10,602.0	18,833.2	10,722.0	72.9	80.7	106.23	-8,203.4	-1,254.8	429.5	279.8	149.66	2.870	
18,900.0	10,602.0	18,933.2	10,722.0	73.7	81.5	106.23	-8,303.4	-1,254.1	429.4	278.2	151.26	2.839	
19,000.0	10,602.0	19,033.2	10,722.0	74.6	82.2	106.23	-8,403.4	-1,253.5	429.4	276.6	152.86	2.809	
19,100.0	10,602.0	19,133.2	10,722.0	75.4	83.0	106.23	-8,503.4	-1,252.8	429.4	275.0	154.46	2.780	
19,200.0	10,602.0	19,233.2	10,722.0	76.3	83.7	106.23	-8,603.4	-1,252.2	429.4	273.3	156.06	2.751	
19,300.0	10,602.0	19,333.2	10,722.0	77.1	84.5	106.23	-8,703.4	-1,251.5	429.4	271.7	157.67	2.723	
19,400.0	10,602.0	19,433.2	10,722.0	78.0	85.2	106.23	-8,803.4	-1,250.9	429.4	270.1	159.27	2.696	
19,500.0	10,602.0	19,533.2	10,722.0	78.8	86.0	106.23	-8,903.4	-1,250.2	429.3	268.5	160.88	2.669	
19,600.0	10,602.0	19,633.2	10,722.0	79.7	86.8	106.23	-9,003.4	-1,249.6	429.3	266.8	162.49	2.642	
19,700.0	10,602.0	19,733.2	10,722.0	80.5	87.5	106.23	-9,103.4	-1,248.9	429.3	265.2	164.11	2.616	
19,800.0	10,602.0	19,833.2	10,722.0	81.4	88.3	106.23	-9,203.4	-1,248.3	429.3	263.6	165.72	2.590	
19,900.0	10,602.0	19,933.2	10,722.0	82.2	89.1	106.23	-9,303.4	-1,247.6	429.3	261.9	167.34	2.565	
20,000.0	10,602.0	20,033.2	10,722.0	83.1	89.8	106.23	-9,403.4	-1,247.0	429.3	260.3	168.96	2.541	
20,100.0	10,602.0	20,133.2	10,722.0	83.9	90.6	106.23	-9,503.4	-1,246.3	429.2	258.7	170.58	2.516	
20,200.0	10,602.0	20,233.2	10,722.0	84.8	91.4	106.24	-9,603.4	-1,245.6	429.2	257.0	172.20	2.493	
20,300.0	10,602.0	20,333.2	10,722.0	85.7	92.2	106.24	-9,703.4	-1,245.0	429.2	255.4	173.83	2.469	
20,400.0	10,602.0	20,433.2	10,722.0	86.5	92.9	106.24	-9,803.4	-1,244.3	429.2	253.7	175.45	2.446	
20,500.0	10,602.0	20,533.2	10,722.0	87.4	93.7	106.24	-9,903.4	-1,243.7	429.2	252.1	177.08	2.424	
20,600.0	10,602.0	20,633.2	10,722.0	88.2	94.5	106.24	-10,003.4	-1,243.0	429.2	250.4	178.71	2.401	
20,700.0	10,602.0	20,733.2	10,722.0	89.1	95.3	106.24	-10,103.4	-1,242.4	429.1	248.8	180.34	2.380	
20,800.0	10,602.0	20,833.2	10,722.0	89.9	96.1	106.24	-10,203.4	-1,241.7	429.1	247.2	181.97	2.358	
20,830.6	10,602.0	20,863.7	10,722.0	90.2	96.3	106.24	-10,233.9	-1,241.5	429.1	246.6	182.47	2.352	
20,830.6	10,602.0	20,863.7	10,722.0	90.2	96.3	106.24	-10,233.9	-1,241.5	429.1	246.6	182.47	2.352	
20,831.1	10,602.0	20,863.7	10,722.0	90.2	96.3	106.24	-10,233.9	-1,241.5	429.1	246.6	182.48	2.352	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB=25' @ 3170.0usft (P 84)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.21°



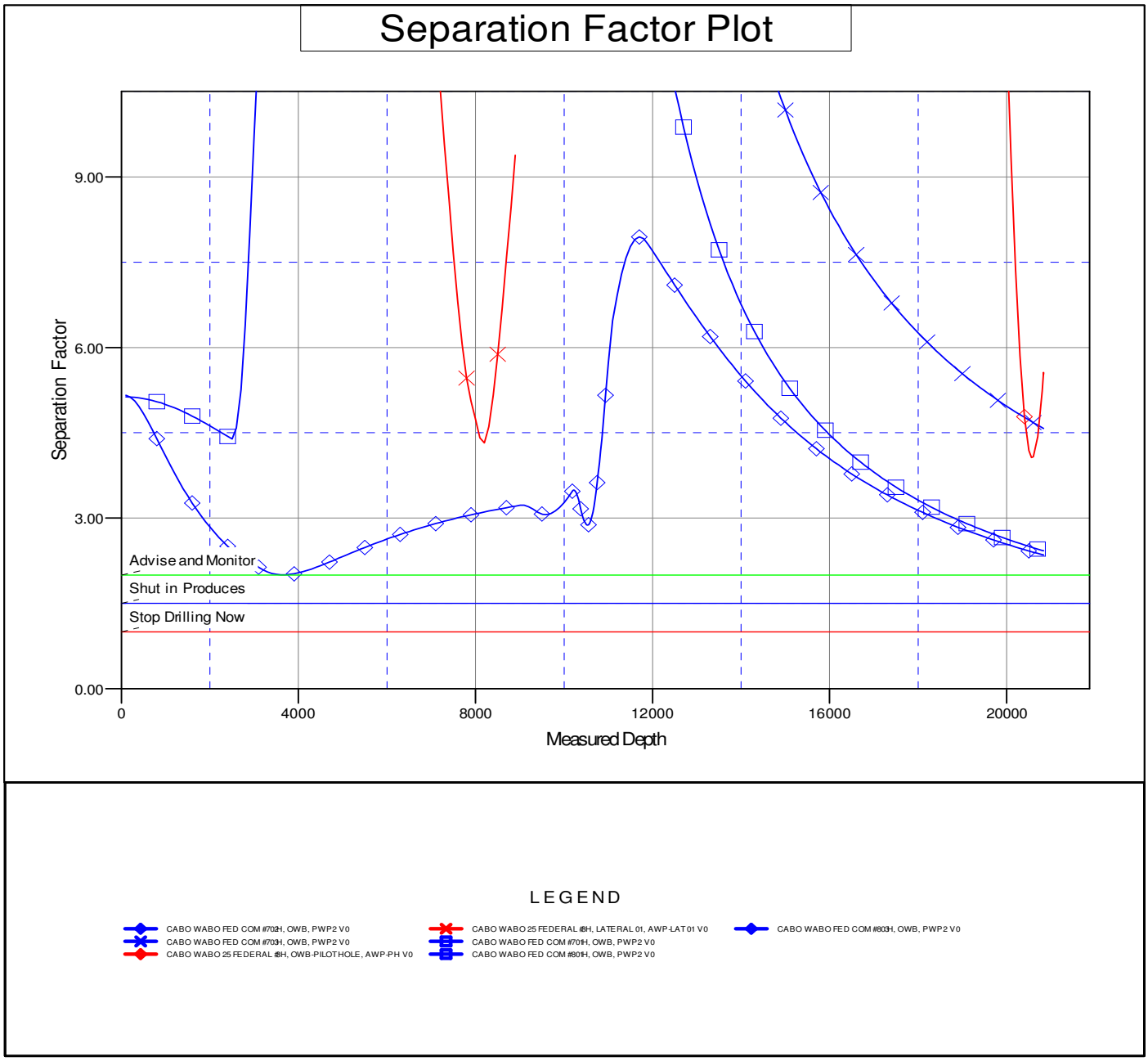
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	CABO WABO FED COM #802H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 15 Central Prod
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB=25' @ 3170.0usft (P 84)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.21°



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DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
CABO WABO FEDERAL PROJECT (ATLAS 2529)
CABO WABO FED COM #802H

OWB

Plan: PWP2

Standard Survey Report

12 October, 2021

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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

Well	CABO WABO FED COM #802H				
Well Position	**+N/-S**	0.0 usft	**Northing:**	408,381.40 usft	**Latitude:**	32° 7' 19.643 N
	+E/-W	0.0 usft	**Easting:**	624,035.49 usft	**Longitude:**	103° 55' 57.653 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,145.0 usft

Wellbore	OWB			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2021	10/12/2021	6.66	59.76	47,569.90024967

Design	PWP2				
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	184.64	

Survey Tool Program **Date** 10/12/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,091.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
10,091.0	20,830.6	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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)
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	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	278.89	2,600.0	0.3	-1.7	-0.1	2.00	2.00	0.00
2,700.0	4.00	278.89	2,699.8	1.1	-6.9	-0.5	2.00	2.00	0.00
2,800.0	6.00	278.89	2,799.5	2.4	-15.5	-1.2	2.00	2.00	0.00
2,900.0	8.00	278.89	2,898.7	4.3	-27.5	-2.1	2.00	2.00	0.00
Start 6109.6 hold at 2900.0 MD									
3,000.0	8.00	278.89	2,997.7	6.5	-41.3	-3.1	0.00	0.00	0.00
3,100.0	8.00	278.89	3,096.8	8.6	-55.0	-4.1	0.00	0.00	0.00
3,200.0	8.00	278.89	3,195.8	10.8	-68.8	-5.2	0.00	0.00	0.00
3,300.0	8.00	278.89	3,294.8	12.9	-82.5	-6.2	0.00	0.00	0.00
3,400.0	8.00	278.89	3,393.8	15.1	-96.3	-7.2	0.00	0.00	0.00
3,500.0	8.00	278.89	3,492.9	17.2	-110.0	-8.3	0.00	0.00	0.00
3,600.0	8.00	278.89	3,591.9	19.4	-123.8	-9.3	0.00	0.00	0.00
3,700.0	8.00	278.89	3,690.9	21.5	-137.5	-10.3	0.00	0.00	0.00
3,800.0	8.00	278.89	3,789.9	23.7	-151.3	-11.4	0.00	0.00	0.00
3,900.0	8.00	278.89	3,889.0	25.8	-165.0	-12.4	0.00	0.00	0.00
4,000.0	8.00	278.89	3,988.0	28.0	-178.8	-13.4	0.00	0.00	0.00
4,100.0	8.00	278.89	4,087.0	30.1	-192.5	-14.5	0.00	0.00	0.00
4,200.0	8.00	278.89	4,186.0	32.3	-206.3	-15.5	0.00	0.00	0.00
4,300.0	8.00	278.89	4,285.1	34.4	-220.0	-16.5	0.00	0.00	0.00
4,400.0	8.00	278.89	4,384.1	36.6	-233.8	-17.6	0.00	0.00	0.00
4,500.0	8.00	278.89	4,483.1	38.7	-247.5	-18.6	0.00	0.00	0.00
4,600.0	8.00	278.89	4,582.2	40.9	-261.3	-19.6	0.00	0.00	0.00
4,700.0	8.00	278.89	4,681.2	43.0	-275.0	-20.6	0.00	0.00	0.00
4,800.0	8.00	278.89	4,780.2	45.2	-288.8	-21.7	0.00	0.00	0.00
4,900.0	8.00	278.89	4,879.2	47.3	-302.5	-22.7	0.00	0.00	0.00
5,000.0	8.00	278.89	4,978.3	49.5	-316.3	-23.7	0.00	0.00	0.00
5,100.0	8.00	278.89	5,077.3	51.6	-330.0	-24.8	0.00	0.00	0.00
5,200.0	8.00	278.89	5,176.3	53.8	-343.8	-25.8	0.00	0.00	0.00
5,300.0	8.00	278.89	5,275.3	55.9	-357.5	-26.8	0.00	0.00	0.00
5,400.0	8.00	278.89	5,374.4	58.1	-371.3	-27.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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)
5,500.0	8.00	278.89	5,473.4	60.2	-385.0	-28.9	0.00	0.00	0.00
5,600.0	8.00	278.89	5,572.4	62.4	-398.8	-29.9	0.00	0.00	0.00
5,700.0	8.00	278.89	5,671.5	64.5	-412.5	-31.0	0.00	0.00	0.00
5,800.0	8.00	278.89	5,770.5	66.7	-426.3	-32.0	0.00	0.00	0.00
5,900.0	8.00	278.89	5,869.5	68.8	-440.1	-33.0	0.00	0.00	0.00
6,000.0	8.00	278.89	5,968.5	71.0	-453.8	-34.1	0.00	0.00	0.00
6,100.0	8.00	278.89	6,067.6	73.1	-467.6	-35.1	0.00	0.00	0.00
6,200.0	8.00	278.89	6,166.6	75.3	-481.3	-36.1	0.00	0.00	0.00
6,300.0	8.00	278.89	6,265.6	77.4	-495.1	-37.2	0.00	0.00	0.00
6,400.0	8.00	278.89	6,364.6	79.6	-508.8	-38.2	0.00	0.00	0.00
6,500.0	8.00	278.89	6,463.7	81.7	-522.6	-39.2	0.00	0.00	0.00
6,600.0	8.00	278.89	6,562.7	83.9	-536.3	-40.3	0.00	0.00	0.00
6,700.0	8.00	278.89	6,661.7	86.0	-550.1	-41.3	0.00	0.00	0.00
6,800.0	8.00	278.89	6,760.7	88.2	-563.8	-42.3	0.00	0.00	0.00
6,900.0	8.00	278.89	6,859.8	90.3	-577.6	-43.4	0.00	0.00	0.00
7,000.0	8.00	278.89	6,958.8	92.5	-591.3	-44.4	0.00	0.00	0.00
7,100.0	8.00	278.89	7,057.8	94.6	-605.1	-45.4	0.00	0.00	0.00
7,200.0	8.00	278.89	7,156.9	96.8	-618.8	-46.5	0.00	0.00	0.00
7,300.0	8.00	278.89	7,255.9	98.9	-632.6	-47.5	0.00	0.00	0.00
7,400.0	8.00	278.89	7,354.9	101.1	-646.3	-48.5	0.00	0.00	0.00
7,500.0	8.00	278.89	7,453.9	103.2	-660.1	-49.5	0.00	0.00	0.00
7,600.0	8.00	278.89	7,553.0	105.4	-673.8	-50.6	0.00	0.00	0.00
7,700.0	8.00	278.89	7,652.0	107.5	-687.6	-51.6	0.00	0.00	0.00
7,800.0	8.00	278.89	7,751.0	109.7	-701.3	-52.6	0.00	0.00	0.00
7,900.0	8.00	278.89	7,850.0	111.8	-715.1	-53.7	0.00	0.00	0.00
8,000.0	8.00	278.89	7,949.1	114.0	-728.8	-54.7	0.00	0.00	0.00
8,100.0	8.00	278.89	8,048.1	116.1	-742.6	-55.7	0.00	0.00	0.00
8,200.0	8.00	278.89	8,147.1	118.3	-756.3	-56.8	0.00	0.00	0.00
8,300.0	8.00	278.89	8,246.1	120.4	-770.1	-57.8	0.00	0.00	0.00
8,400.0	8.00	278.89	8,345.2	122.6	-783.8	-58.8	0.00	0.00	0.00
8,500.0	8.00	278.89	8,444.2	124.7	-797.6	-59.9	0.00	0.00	0.00
8,600.0	8.00	278.89	8,543.2	126.9	-811.3	-60.9	0.00	0.00	0.00
8,700.0	8.00	278.89	8,642.3	129.0	-825.1	-61.9	0.00	0.00	0.00
8,800.0	8.00	278.89	8,741.3	131.2	-838.8	-63.0	0.00	0.00	0.00
8,900.0	8.00	278.89	8,840.3	133.3	-852.6	-64.0	0.00	0.00	0.00
9,000.0	8.00	278.89	8,939.3	135.5	-866.3	-65.0	0.00	0.00	0.00
9,009.6	8.00	278.89	8,948.8	135.7	-867.6	-65.1	0.00	0.00	0.00
Start Drop -2.00									
9,100.0	6.19	278.89	9,038.5	137.4	-878.7	-66.0	2.00	-2.00	0.00
9,200.0	4.19	278.89	9,138.1	138.8	-887.6	-66.6	2.00	-2.00	0.00
9,300.0	2.19	278.89	9,238.0	139.7	-893.1	-67.0	2.00	-2.00	0.00
9,400.0	0.19	278.89	9,337.9	140.0	-895.2	-67.2	2.00	-2.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,409.6	0.00	0.00	9,347.5	140.0	-895.2	-67.2	2.00	-2.00	0.00
Start 777.0 hold at 9409.6 MD									
9,500.0	0.00	0.00	9,437.9	140.0	-895.2	-67.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,537.9	140.0	-895.2	-67.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,637.9	140.0	-895.2	-67.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,737.9	140.0	-895.2	-67.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,837.9	140.0	-895.2	-67.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,937.9	140.0	-895.2	-67.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,037.9	140.0	-895.2	-67.2	0.00	0.00	0.00
10,186.6	0.00	0.00	10,124.5	140.0	-895.2	-67.2	0.00	0.00	0.00
Start DLS 12.00 TFO 179.64									
10,200.0	1.61	179.64	10,137.9	139.8	-895.2	-67.0	12.00	12.00	0.00
10,300.0	13.61	179.64	10,236.9	126.6	-895.1	-53.8	12.00	12.00	0.00
10,400.0	25.61	179.64	10,330.9	93.1	-894.9	-20.5	12.00	12.00	0.00
10,500.0	37.61	179.64	10,415.9	40.8	-894.5	31.7	12.00	12.00	0.00
10,600.0	49.61	179.64	10,488.2	-28.1	-894.1	100.3	12.00	12.00	0.00
10,700.0	61.61	179.64	10,544.6	-110.5	-893.6	182.3	12.00	12.00	0.00
10,800.0	73.61	179.64	10,582.6	-202.8	-893.0	274.3	12.00	12.00	0.00
10,900.0	85.61	179.64	10,600.6	-300.9	-892.4	372.1	12.00	12.00	0.00
10,936.6	90.00	179.64	10,602.0	-337.5	-892.1	408.4	12.00	12.00	0.00
Start 9894.0 hold at 10936.6 MD									
11,000.0	90.00	179.64	10,602.0	-400.9	-891.7	471.7	0.00	0.00	0.00
11,100.0	90.00	179.64	10,602.0	-500.9	-891.1	571.3	0.00	0.00	0.00
11,200.0	90.00	179.64	10,602.0	-600.9	-890.5	670.9	0.00	0.00	0.00
11,300.0	90.00	179.64	10,602.0	-700.9	-889.9	770.5	0.00	0.00	0.00
11,400.0	90.00	179.64	10,602.0	-800.9	-889.2	870.1	0.00	0.00	0.00
11,500.0	90.00	179.64	10,602.0	-900.9	-888.6	969.8	0.00	0.00	0.00
11,600.0	90.00	179.64	10,602.0	-1,000.9	-888.0	1,069.4	0.00	0.00	0.00
11,700.0	90.00	179.64	10,602.0	-1,100.9	-887.3	1,169.0	0.00	0.00	0.00
11,800.0	90.00	179.64	10,602.0	-1,200.9	-886.7	1,268.6	0.00	0.00	0.00
11,900.0	90.00	179.64	10,602.0	-1,300.9	-886.1	1,368.2	0.00	0.00	0.00
12,000.0	90.00	179.64	10,602.0	-1,400.9	-885.4	1,467.9	0.00	0.00	0.00
12,100.0	90.00	179.64	10,602.0	-1,500.9	-884.8	1,567.5	0.00	0.00	0.00
12,200.0	90.00	179.64	10,602.0	-1,600.9	-884.2	1,667.1	0.00	0.00	0.00
12,300.0	90.00	179.64	10,602.0	-1,700.9	-883.5	1,766.7	0.00	0.00	0.00
12,400.0	90.00	179.64	10,602.0	-1,800.9	-882.9	1,866.3	0.00	0.00	0.00
12,500.0	90.00	179.64	10,602.0	-1,900.9	-882.3	1,966.0	0.00	0.00	0.00
12,600.0	90.00	179.64	10,602.0	-2,000.9	-881.6	2,065.6	0.00	0.00	0.00
12,700.0	90.00	179.64	10,602.0	-2,100.9	-881.0	2,165.2	0.00	0.00	0.00
12,800.0	90.00	179.64	10,602.0	-2,200.9	-880.4	2,264.8	0.00	0.00	0.00
12,900.0	90.00	179.64	10,602.0	-2,300.9	-879.7	2,364.4	0.00	0.00	0.00
13,000.0	90.00	179.64	10,602.0	-2,400.9	-879.1	2,464.1	0.00	0.00	0.00
13,100.0	90.00	179.64	10,602.0	-2,500.9	-878.5	2,563.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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)
13,200.0	90.00	179.64	10,602.0	-2,600.9	-877.8	2,663.3	0.00	0.00	0.00
13,300.0	90.00	179.64	10,602.0	-2,700.9	-877.2	2,762.9	0.00	0.00	0.00
13,400.0	90.00	179.64	10,602.0	-2,800.9	-876.6	2,862.5	0.00	0.00	0.00
13,500.0	90.00	179.64	10,602.0	-2,900.8	-875.9	2,962.1	0.00	0.00	0.00
13,600.0	90.00	179.64	10,602.0	-3,000.8	-875.3	3,061.8	0.00	0.00	0.00
13,700.0	90.00	179.64	10,602.0	-3,100.8	-874.7	3,161.4	0.00	0.00	0.00
13,800.0	90.00	179.64	10,602.0	-3,200.8	-874.0	3,261.0	0.00	0.00	0.00
13,900.0	90.00	179.64	10,602.0	-3,300.8	-873.4	3,360.6	0.00	0.00	0.00
14,000.0	90.00	179.64	10,602.0	-3,400.8	-872.8	3,460.2	0.00	0.00	0.00
14,100.0	90.00	179.64	10,602.0	-3,500.8	-872.1	3,559.9	0.00	0.00	0.00
14,200.0	90.00	179.64	10,602.0	-3,600.8	-871.5	3,659.5	0.00	0.00	0.00
14,300.0	90.00	179.64	10,602.0	-3,700.8	-870.9	3,759.1	0.00	0.00	0.00
14,400.0	90.00	179.64	10,602.0	-3,800.8	-870.2	3,858.7	0.00	0.00	0.00
14,500.0	90.00	179.64	10,602.0	-3,900.8	-869.6	3,958.3	0.00	0.00	0.00
14,600.0	90.00	179.64	10,602.0	-4,000.8	-869.0	4,058.0	0.00	0.00	0.00
14,700.0	90.00	179.64	10,602.0	-4,100.8	-868.3	4,157.6	0.00	0.00	0.00
14,800.0	90.00	179.64	10,602.0	-4,200.8	-867.7	4,257.2	0.00	0.00	0.00
14,900.0	90.00	179.64	10,602.0	-4,300.8	-867.1	4,356.8	0.00	0.00	0.00
15,000.0	90.00	179.64	10,602.0	-4,400.8	-866.4	4,456.4	0.00	0.00	0.00
15,100.0	90.00	179.64	10,602.0	-4,500.8	-865.8	4,556.1	0.00	0.00	0.00
15,200.0	90.00	179.64	10,602.0	-4,600.8	-865.2	4,655.7	0.00	0.00	0.00
15,300.0	90.00	179.64	10,602.0	-4,700.8	-864.5	4,755.3	0.00	0.00	0.00
15,400.0	90.00	179.64	10,602.0	-4,800.8	-863.9	4,854.9	0.00	0.00	0.00
15,500.0	90.00	179.64	10,602.0	-4,900.8	-863.3	4,954.5	0.00	0.00	0.00
15,600.0	90.00	179.64	10,602.0	-5,000.8	-862.6	5,054.2	0.00	0.00	0.00
15,700.0	90.00	179.64	10,602.0	-5,100.8	-862.0	5,153.8	0.00	0.00	0.00
15,800.0	90.00	179.64	10,602.0	-5,200.8	-861.4	5,253.4	0.00	0.00	0.00
15,900.0	90.00	179.64	10,602.0	-5,300.8	-860.8	5,353.0	0.00	0.00	0.00
16,000.0	90.00	179.64	10,602.0	-5,400.8	-860.1	5,452.6	0.00	0.00	0.00
16,100.0	90.00	179.64	10,602.0	-5,500.8	-859.5	5,552.3	0.00	0.00	0.00
16,200.0	90.00	179.64	10,602.0	-5,600.8	-858.9	5,651.9	0.00	0.00	0.00
16,300.0	90.00	179.64	10,602.0	-5,700.8	-858.2	5,751.5	0.00	0.00	0.00
16,400.0	90.00	179.64	10,602.0	-5,800.8	-857.6	5,851.1	0.00	0.00	0.00
16,500.0	90.00	179.64	10,602.0	-5,900.8	-857.0	5,950.7	0.00	0.00	0.00
16,600.0	90.00	179.64	10,602.0	-6,000.8	-856.3	6,050.4	0.00	0.00	0.00
16,700.0	90.00	179.64	10,602.0	-6,100.8	-855.7	6,150.0	0.00	0.00	0.00
16,800.0	90.00	179.64	10,602.0	-6,200.8	-855.1	6,249.6	0.00	0.00	0.00
16,900.0	90.00	179.64	10,602.0	-6,300.8	-854.4	6,349.2	0.00	0.00	0.00
17,000.0	90.00	179.64	10,602.0	-6,400.8	-853.8	6,448.8	0.00	0.00	0.00
17,100.0	90.00	179.64	10,602.0	-6,500.8	-853.2	6,548.5	0.00	0.00	0.00
17,200.0	90.00	179.64	10,602.0	-6,600.8	-852.5	6,648.1	0.00	0.00	0.00
17,300.0	90.00	179.64	10,602.0	-6,700.8	-851.9	6,747.7	0.00	0.00	0.00
17,400.0	90.00	179.64	10,602.0	-6,800.8	-851.3	6,847.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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)
17,500.0	90.00	179.64	10,602.0	-6,900.8	-850.6	6,946.9	0.00	0.00	0.00
17,600.0	90.00	179.64	10,602.0	-7,000.8	-850.0	7,046.6	0.00	0.00	0.00
17,700.0	90.00	179.64	10,602.0	-7,100.8	-849.4	7,146.2	0.00	0.00	0.00
17,800.0	90.00	179.64	10,602.0	-7,200.8	-848.7	7,245.8	0.00	0.00	0.00
17,900.0	90.00	179.64	10,602.0	-7,300.8	-848.1	7,345.4	0.00	0.00	0.00
18,000.0	90.00	179.64	10,602.0	-7,400.8	-847.5	7,445.0	0.00	0.00	0.00
18,100.0	90.00	179.64	10,602.0	-7,500.8	-846.8	7,544.7	0.00	0.00	0.00
18,200.0	90.00	179.64	10,602.0	-7,600.8	-846.2	7,644.3	0.00	0.00	0.00
18,300.0	90.00	179.64	10,602.0	-7,700.8	-845.6	7,743.9	0.00	0.00	0.00
18,400.0	90.00	179.64	10,602.0	-7,800.8	-844.9	7,843.5	0.00	0.00	0.00
18,500.0	90.00	179.64	10,602.0	-7,900.7	-844.3	7,943.1	0.00	0.00	0.00
18,600.0	90.00	179.64	10,602.0	-8,000.7	-843.7	8,042.8	0.00	0.00	0.00
18,700.0	90.00	179.64	10,602.0	-8,100.7	-843.0	8,142.4	0.00	0.00	0.00
18,800.0	90.00	179.64	10,602.0	-8,200.7	-842.4	8,242.0	0.00	0.00	0.00
18,900.0	90.00	179.64	10,602.0	-8,300.7	-841.8	8,341.6	0.00	0.00	0.00
19,000.0	90.00	179.64	10,602.0	-8,400.7	-841.1	8,441.2	0.00	0.00	0.00
19,100.0	90.00	179.64	10,602.0	-8,500.7	-840.5	8,540.9	0.00	0.00	0.00
19,200.0	90.00	179.64	10,602.0	-8,600.7	-839.9	8,640.5	0.00	0.00	0.00
19,300.0	90.00	179.64	10,602.0	-8,700.7	-839.2	8,740.1	0.00	0.00	0.00
19,400.0	90.00	179.64	10,602.0	-8,800.7	-838.6	8,839.7	0.00	0.00	0.00
19,500.0	90.00	179.64	10,602.0	-8,900.7	-838.0	8,939.3	0.00	0.00	0.00
19,600.0	90.00	179.64	10,602.0	-9,000.7	-837.3	9,039.0	0.00	0.00	0.00
19,700.0	90.00	179.64	10,602.0	-9,100.7	-836.7	9,138.6	0.00	0.00	0.00
19,800.0	90.00	179.64	10,602.0	-9,200.7	-836.1	9,238.2	0.00	0.00	0.00
19,900.0	90.00	179.64	10,602.0	-9,300.7	-835.4	9,337.8	0.00	0.00	0.00
20,000.0	90.00	179.64	10,602.0	-9,400.7	-834.8	9,437.4	0.00	0.00	0.00
20,100.0	90.00	179.64	10,602.0	-9,500.7	-834.2	9,537.1	0.00	0.00	0.00
20,200.0	90.00	179.64	10,602.0	-9,600.7	-833.5	9,636.7	0.00	0.00	0.00
20,300.0	90.00	179.64	10,602.0	-9,700.7	-832.9	9,736.3	0.00	0.00	0.00
20,400.0	90.00	179.64	10,602.0	-9,800.7	-832.3	9,835.9	0.00	0.00	0.00
20,500.0	90.00	179.64	10,602.0	-9,900.7	-831.7	9,935.5	0.00	0.00	0.00
20,600.0	90.00	179.64	10,602.0	-10,000.7	-831.0	10,035.2	0.00	0.00	0.00
20,700.0	90.00	179.64	10,602.0	-10,100.7	-830.4	10,134.8	0.00	0.00	0.00
20,800.0	90.00	179.64	10,602.0	-10,200.7	-829.8	10,234.4	0.00	0.00	0.00
20,830.6	90.00	179.64	10,602.0	-10,231.3	-829.6	10,264.9	0.00	0.00	0.00
TD at 20830.6									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO FED COM #802H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #802H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	EDT 15 Central Prod

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
LTP (CABO WABO FE - plan hits target center - Point	0.00	0.01	10,602.0	-10,101.3	-830.4	398,280.11	623,205.08	32° 5' 39.708 N	103° 56' 7.743 W
PBHL (CABO WABO - plan hits target center - Rectangle (sides W100.0 H10,068.0 D20.0)	0.00	359.63	10,602.0	-10,231.3	-829.6	398,150.12	623,205.93	32° 5' 38.421 N	103° 56' 7.739 W
FTP (CABO WABO FI - plan misses target center by 41.0usft at 10745.1usft MD (10564.1 TVD, -151.1 N, -893.3 E) - Circle (radius 50.0)	0.00	0.00	10,602.0	-135.5	-895.2	408,245.92	623,140.32	32° 7' 18.335 N	103° 56' 8.068 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2900	2899	4	-28	Start 6109.6 hold at 2900.0 MD
9010	8949	136	-868	Start Drop -2.00
9410	9348	140	-895	Start 777.0 hold at 9409.6 MD
10,187	10,124	140	-895	Start DLS 12.00 TFO 179.64
10,937	10,602	-337	-892	Start 9894.0 hold at 10936.6 MD
20,831	10,602	-10,231	-830	TD at 20830.6

Checked By: _____ Approved By: _____ Date: _____

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Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #802H
Wellbore: OWB
Design: PWP2
GL: 3145.0
KB=25' @ 3170.0usft (P 84)

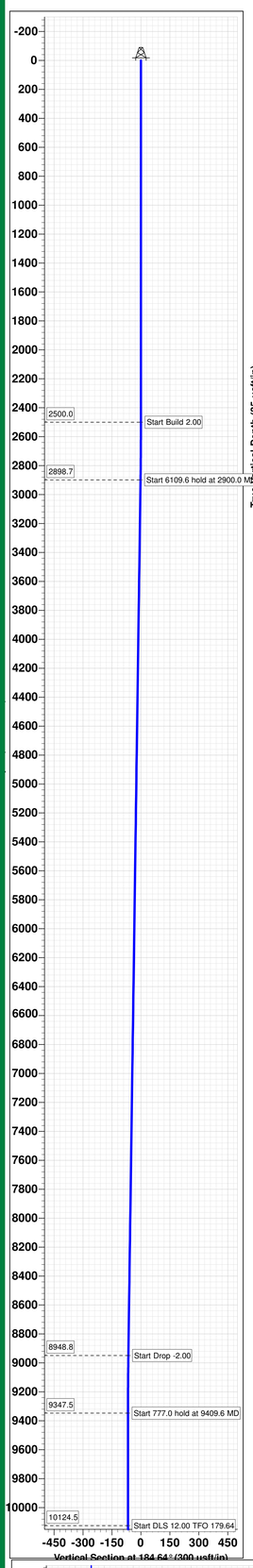
ConocoPhillips

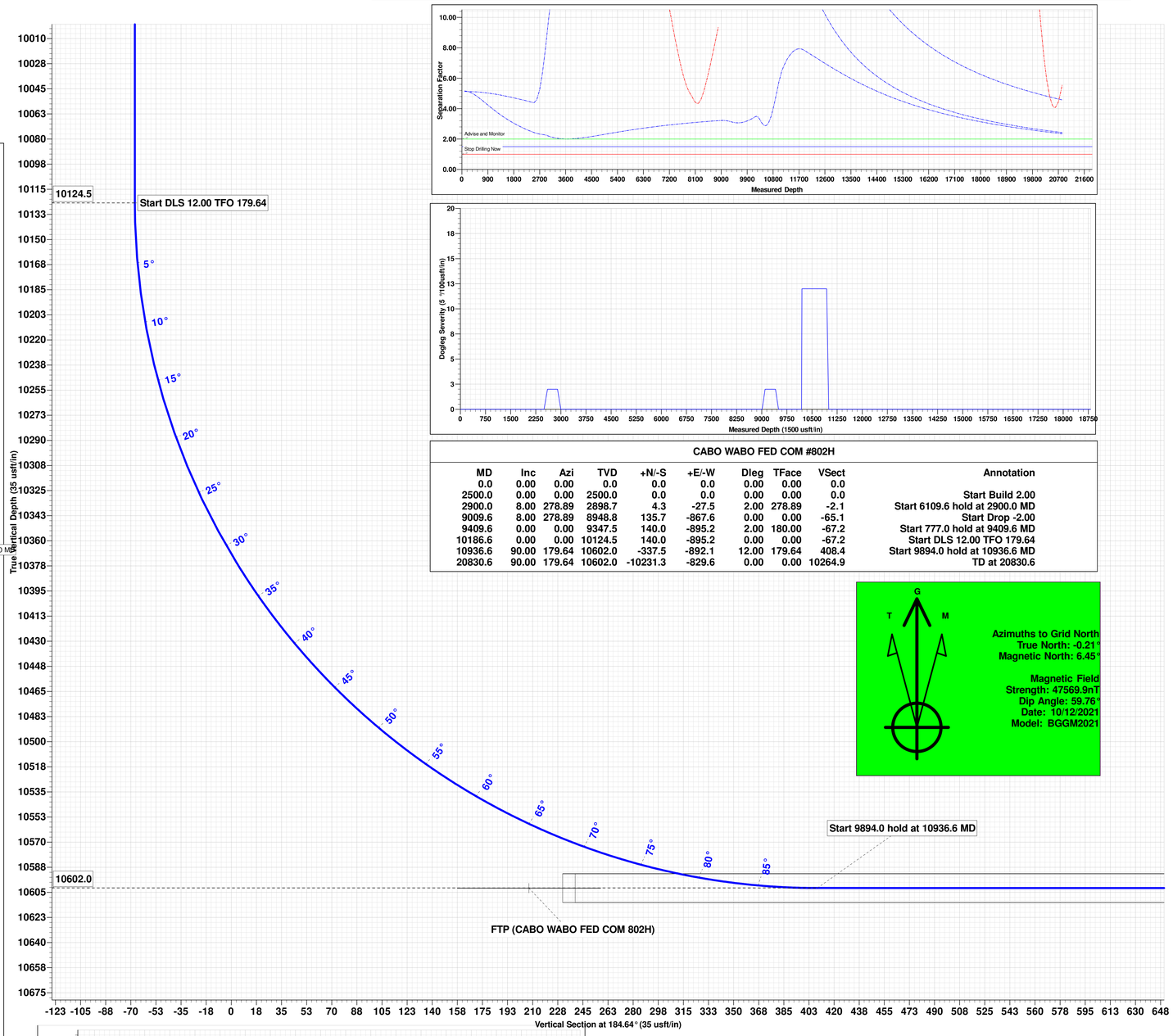
WELL DETAILS: CABO WABO FED COM #802H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	408381.40	624035.49	32° 7' 19.643 N	103° 55' 57.653 W

DESIGN TARGET DETAILS

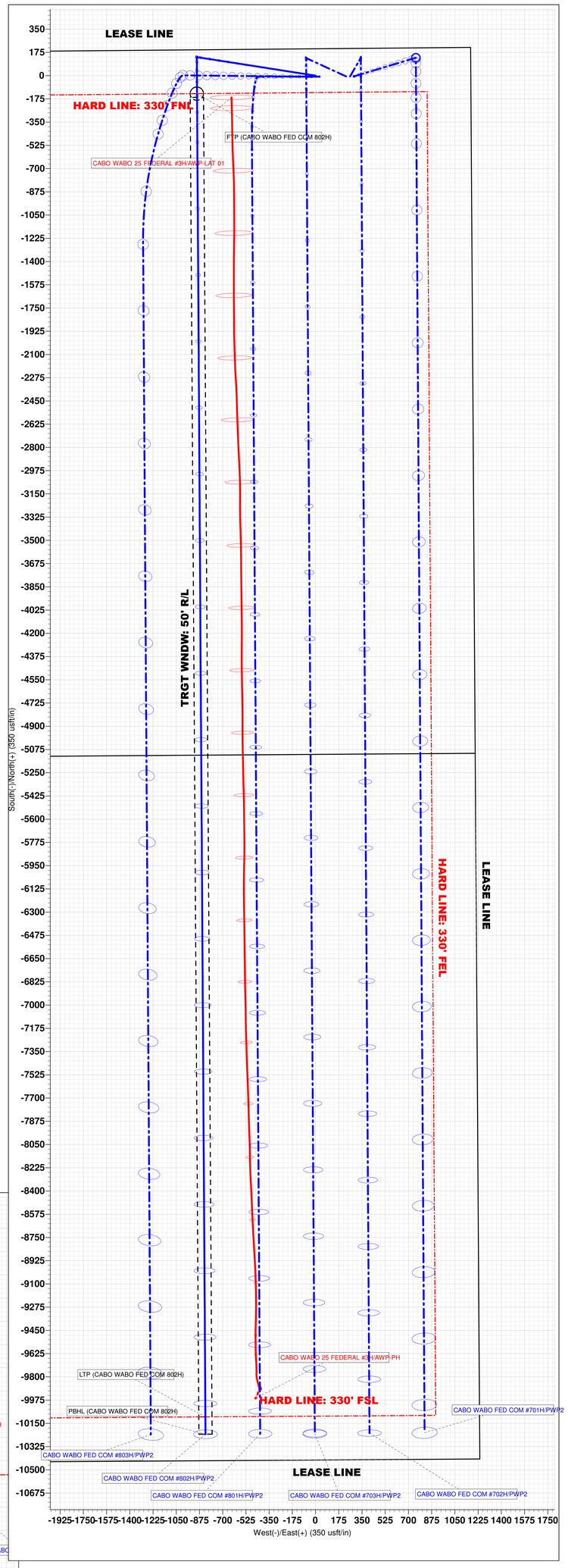
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (CABO WABO FED COM 802H)	10602.0	-135.5	-895.2	408245.92	623140.32	32° 7' 18.335 N	103° 56' 8.068 W
LTP (CABO WABO FED COM 802H)	10602.0	-10101.3	-830.4	398280.11	623205.08	32° 5' 39.708 N	103° 56' 7.743 W
PBHL (CABO WABO FED COM 802H)	10602.0	-10231.3	-829.6	398150.12	623205.93	32° 5' 38.421 N	103° 56' 7.739 W

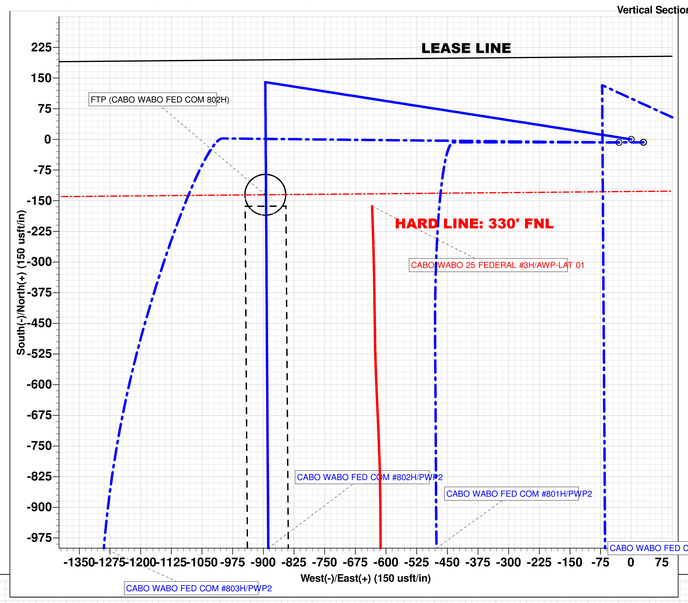


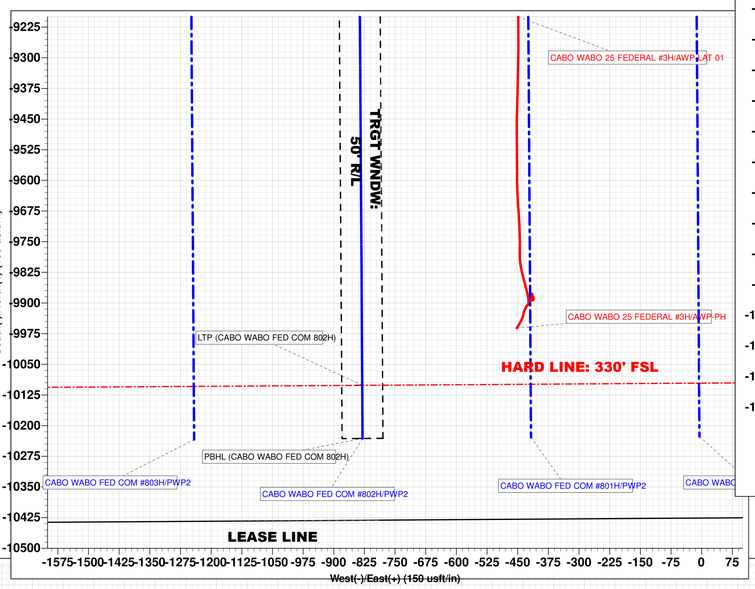


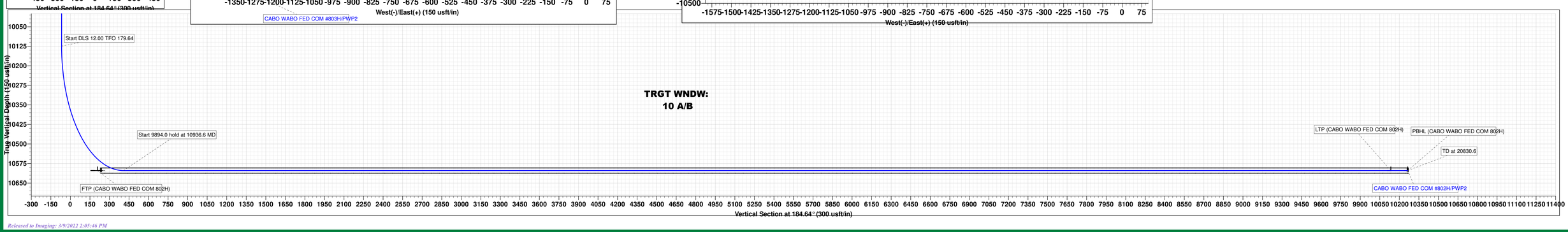
CABO WABO FED COM #802H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2900.0	8.00	278.89	2898.7	4.3	-27.5	2.00	278.89	-2.1	Start 6109.6 hold at 2900.0 MD
9009.6	8.00	278.89	8948.8	135.7	-867.6	0.00	0.00	-65.1	Start Drop -2.00
9409.6	0.00	0.00	9347.5	140.0	-895.2	2.00	180.00	-67.2	Start 777.0 hold at 9409.6 MD
10186.6	0.00	0.00	10124.5	140.0	-895.2	0.00	0.00	-67.2	Start DLS 12.00 TFO 179.64
10936.6	90.00	179.64	10602.0	-337.5	-892.1	12.00	179.64	408.4	Start 9894.0 hold at 10936.6 MD
20830.6	90.00	179.64	10602.0	-10231.3	-829.6	0.00	0.00	10264.9	TD at 20830.6









TRGT WNDW:
10 A/B

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

COMMENTS

Action 82893

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82893
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO review 2/23/2022	2/23/2022

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CONDITIONS

Action 82893

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82893
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/23/2022