

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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 recompleat 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 performed 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 recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 210 FNL / 1200 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.122226 / LONG: -103.933262 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 2200 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1218818 / LONG: -103.936491 (TVD: 11468 feet, MD: 11640 feet)

BHL: SWSE / 200 FSL / 2200 FEL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941292 / LONG: -103.9363982 (TVD: 11456 feet, MD: 21691 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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-47755	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp (Gas)
4 Property Code 329794	5 Property Name CABO WABO FEDERAL COM	6 Well Number 803H
7 OGRID No. 217955	8 Operator Name COG PRODUCTION LLC	9 Elevation 3145'

10 Surface Location

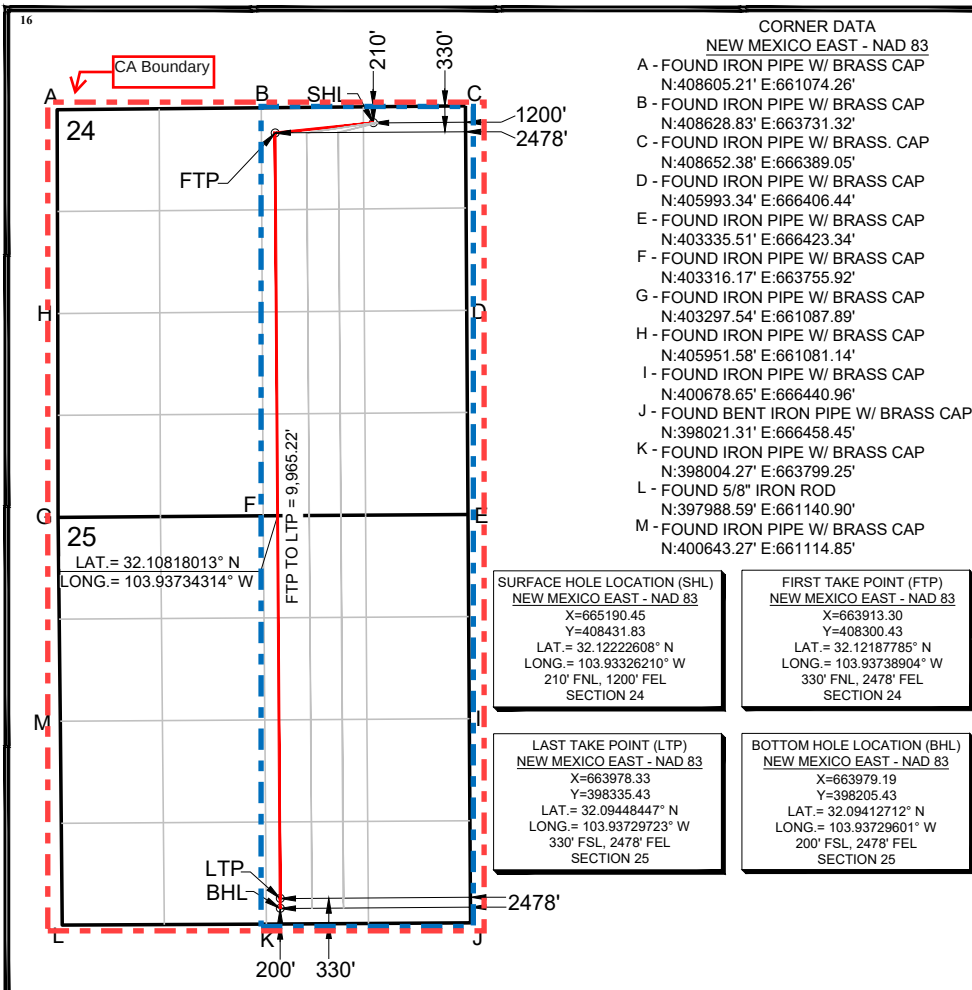
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	1200'	EAST	EDDY

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	2478'	EAST	EDDY

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



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.

Signature Stan Wagner Date 10/14/21

Printed Name Stan Wagner

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: _____

Certificate Number 12177

8/16/2021

ConocoPhillips - Cabo Wabo Fed Com #803H

1. Geologic Formations

TVD of target	10,722' EOL	Pilot hole depth	NA
MD at TD:	20,863'	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 (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
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	1.24	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.65	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,863	5.5"	20	P110	W441	1.59	2.14	2.99	2.43
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 #803H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips - Cabo Wabo Fed Com #803H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
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
	1062	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%
1 st Intermediate	0'	50%
Production	9,600'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Cabo Wabo Fed Com #803H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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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 #803H

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
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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 #803H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6970 psi at 10722' 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 #803H

OWB

PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	9/9/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,863.6	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning	
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	8,053.6	17,420.0	180.8	82.9	1.848	Advise and Monitor, CC, I
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	8,100.0	17,420.0	186.6	84.9	1.834	Advise and Monitor, SF
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,596.3	10,400.0	828.8	727.6	8.187	CC, ES, SF
CABO WABO FED COM #701H - OWB - PWP2	2,416.0	2,418.0	319.9	302.0	17.859	CC
CABO WABO FED COM #701H - OWB - PWP2	2,500.0	2,500.0	319.9	301.5	17.316	ES
CABO WABO FED COM #701H - OWB - PWP2	2,700.0	2,681.7	333.1	313.4	16.903	SF
CABO WABO FED COM #702H - OWB - PWP2	2,415.6	2,418.6	290.0	277.6	23.435	CC
CABO WABO FED COM #702H - OWB - PWP2	2,500.0	2,502.9	290.0	277.3	22.854	ES
CABO WABO FED COM #702H - OWB - PWP2	2,700.0	2,692.4	300.5	287.1	22.407	SF
CABO WABO FED COM #703H - OWB - PWP2	2,571.2	2,578.7	260.0	247.1	20.083	CC
CABO WABO FED COM #703H - OWB - PWP2	2,700.0	2,718.9	260.1	246.7	19.408	ES
CABO WABO FED COM #703H - OWB - PWP2	6,300.0	6,307.6	448.7	420.3	15.838	SF
CABO WABO FED COM #704H - OWB - PWP2	11,884.5	11,768.3	479.4	422.5	8.424	CC
CABO WABO FED COM #704H - OWB - PWP2	20,863.7	20,747.5	482.4	296.3	2.592	ES, SF
CABO WABO FED COM #705H - OWB - PWP2	11,884.9	11,746.5	864.2	809.1	15.698	CC
CABO WABO FED COM #705H - OWB - PWP2	20,863.7	20,725.1	866.0	680.7	4.674	ES, SF
CABO WABO FED COM #801H - OWB - PWP2	2,500.0	2,500.0	59.9	47.3	4.724	CC, ES
CABO WABO FED COM #801H - OWB - PWP2	20,863.7	20,770.9	824.0	639.5	4.466	SF
CABO WABO FED COM #802H - OWB - PWP2	2,500.0	2,500.0	31.0	18.2	2.430	CC
CABO WABO FED COM #802H - OWB - PWP2	3,300.0	3,303.8	32.4	16.6	2.051	ES
CABO WABO FED COM #802H - OWB - PWP2	3,600.0	3,603.7	34.3	17.2	2.003	SF
CABO WABO FED COM #804H - OWB - PWP2						Out of range

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

10/12/2021 2:21:40PM

Page 2

COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	20,863.7	8,062.0				Out of Range @TD
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,863.7	10,400.0	870.9	773.3	8.922	
CABO WABO FED COM #701H - OWB - PWP2	20,863.7	20,809.5				Out of Range @TD
CABO WABO FED COM #702H - OWB - PWP2	20,863.7	20,905.7				Out of Range @TD
CABO WABO FED COM #703H - OWB - PWP2	20,863.7	20,785.8				Out of Range @TD
CABO WABO FED COM #704H - OWB - PWP2	20,863.7	20,747.5	482.4	296.3	2.592	ES, SF
CABO WABO FED COM #705H - OWB - PWP2	20,863.7	20,725.1	866.0	680.7	4.674	ES, SF
CABO WABO FED COM #801H - OWB - PWP2	20,863.7	20,770.9	824.0	639.5	4.466	SF
CABO WABO FED COM #802H - OWB - PWP2	20,863.7	20,789.6	429.1	246.6	2.351	
CABO WABO FED COM #804H - OWB - PWP2	20,863.7	20,829.0				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													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	7,064.8	17,420.0	7,944.9	25.5	161.2	-116.31	-155.8	-603.9	970.6	882.1	88.50	10.968	
7,200.0	7,164.0	17,420.0	7,944.9	25.8	161.2	-116.31	-155.8	-603.9	872.6	784.0	88.53	9.856	
7,300.0	7,263.2	17,420.0	7,944.9	26.2	161.2	-116.31	-155.8	-603.9	775.0	686.5	88.53	8.754	
7,400.0	7,362.3	17,420.0	7,944.9	26.6	161.2	-116.31	-155.8	-603.9	678.2	589.7	88.50	7.663	
7,500.0	7,461.5	17,420.0	7,944.9	26.9	161.2	-116.31	-155.8	-603.9	582.4	494.0	88.43	6.586	
7,600.0	7,560.7	17,420.0	7,944.9	27.3	161.2	-116.31	-155.8	-603.9	488.3	400.0	88.31	5.530	
7,700.0	7,659.9	17,420.0	7,944.9	27.7	161.2	-116.31	-155.8	-603.9	397.2	309.0	88.17	4.504	
7,800.0	7,759.1	17,420.0	7,944.9	28.0	161.2	-116.31	-155.8	-603.9	311.5	223.3	88.15	3.533	
7,900.0	7,858.3	17,420.0	7,944.9	28.4	161.2	-116.31	-155.8	-603.9	237.2	148.3	88.90	2.669	
8,000.0	7,957.5	17,420.0	7,944.9	28.8	161.2	-116.31	-155.8	-603.9	188.6	95.4	93.18	2.024	
8,053.6	8,010.7	17,420.0	7,944.9	29.0	161.2	-116.31	-155.8	-603.9	180.8	82.9	97.85	1.848	Advise and Monitor, CC, ES
8,100.0	8,056.7	17,420.0	7,944.9	29.1	161.2	-116.31	-155.8	-603.9	186.6	84.9	101.73	1.834	Advise and Monitor, SF
8,200.0	8,155.9	17,420.0	7,944.9	29.5	161.2	-116.31	-155.8	-603.9	232.6	127.7	104.90	2.217	
8,300.0	8,255.1	17,420.0	7,944.9	29.9	161.2	-116.31	-155.8	-603.9	305.6	201.8	103.73	2.946	
8,400.0	8,354.3	17,420.0	7,944.9	30.2	161.2	-116.31	-155.8	-603.9	390.7	288.6	102.06	3.828	
8,500.0	8,453.4	17,420.0	7,944.9	30.6	161.2	-116.31	-155.8	-603.9	481.6	380.8	100.78	4.778	
8,600.0	8,552.6	17,420.0	7,944.9	31.0	161.2	-116.31	-155.8	-603.9	575.5	475.6	99.91	5.760	
8,700.0	8,651.8	17,420.0	7,944.9	31.3	161.2	-116.31	-155.8	-603.9	671.2	571.8	99.33	6.757	
8,800.0	8,751.0	17,420.0	7,944.9	31.7	161.2	-116.31	-155.8	-603.9	767.9	669.0	98.97	7.760	
8,900.0	8,850.2	17,420.0	7,944.9	32.1	161.2	-116.31	-155.8	-603.9	865.5	766.7	98.75	8.764	

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

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COMPASS 5000.15 Build 91E

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 - LATERAL 01 - AWP-LAT 01												Offset Site Error: 3.0 usft	
Survey Program: 25- VES GyroFlex, 7336-MWD												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.0	8,949.4	17,420.0	7,944.9	32.4	161.2	-116.31	-155.8	-603.9	963.5	864.8	98.63	9.768	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
20,100.0	10,722.0	10,400.0	10,398.3	90.3	8.5	-72.61	-9,953.6	-422.4	966.0	875.2	90.87	10.631		
20,200.0	10,722.0	10,400.0	10,398.3	91.1	8.5	-72.61	-9,953.6	-422.4	918.7	824.6	94.06	9.767		
20,300.0	10,722.0	10,400.0	10,398.3	91.8	8.5	-72.61	-9,953.6	-422.4	880.2	783.2	96.95	9.079		
20,400.0	10,722.0	10,400.0	10,398.3	92.6	8.5	-72.61	-9,953.6	-422.4	851.7	752.5	99.26	8.581		
20,500.0	10,722.0	10,400.0	10,398.3	93.4	8.5	-72.61	-9,953.6	-422.4	834.4	733.6	100.75	8.282		
20,596.3	10,722.0	10,400.0	10,398.3	94.1	8.5	-72.61	-9,953.6	-422.4	828.8	727.6	101.23	8.187 CC, ES, SF		
20,600.0	10,722.0	10,400.0	10,398.3	94.2	8.5	-72.61	-9,953.6	-422.4	828.8	727.6	101.23	8.188		
20,700.0	10,722.0	10,400.0	10,398.3	94.9	8.5	-72.61	-9,953.6	-422.4	835.3	734.6	100.63	8.300		
20,800.0	10,722.0	10,400.0	10,398.3	95.7	8.5	-72.61	-9,953.6	-422.4	853.5	754.4	99.05	8.617		
20,863.7	10,722.0	10,400.0	10,398.3	96.2	8.5	-72.61	-9,953.6	-422.4	870.9	773.3	97.61	8.922		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Vertical	Reference	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	2.0	2.0	3.0	3.0	89.53	2.6	319.9	319.9					
100.0	100.0	102.0	102.0	3.0	3.0	89.53	2.6	319.9	319.9	313.9	6.01	53.267		
200.0	200.0	202.0	202.0	3.0	3.0	89.53	2.6	319.9	319.9	313.9	6.08	52.608		
300.0	300.0	302.0	302.0	3.1	3.1	89.53	2.6	319.9	319.9	313.7	6.24	51.282		
400.0	400.0	402.0	402.0	3.2	3.2	89.53	2.6	319.9	319.9	313.5	6.47	49.433		
500.0	500.0	502.0	502.0	3.4	3.4	89.53	2.6	319.9	319.9	313.2	6.77	47.233		
600.0	600.0	602.0	602.0	3.6	3.6	89.53	2.6	319.9	319.9	312.8	7.13	44.842		
700.0	700.0	702.0	702.0	3.8	3.8	89.53	2.6	319.9	319.9	312.4	7.55	42.394		
800.0	800.0	802.0	802.0	4.0	4.0	89.53	2.6	319.9	319.9	311.9	8.00	39.982		
900.0	900.0	902.0	902.0	4.2	4.2	89.53	2.6	319.9	319.9	311.4	8.49	37.669		
1,000.0	1,000.0	1,002.0	1,002.0	4.5	4.5	89.53	2.6	319.9	319.9	310.9	9.02	35.489		
1,100.0	1,100.0	1,102.0	1,102.0	4.8	4.8	89.53	2.6	319.9	319.9	310.4	9.56	33.459		
1,200.0	1,200.0	1,202.0	1,202.0	5.1	5.1	89.53	2.6	319.9	319.9	309.8	10.13	31.582		
1,300.0	1,300.0	1,302.0	1,302.0	5.4	5.4	89.53	2.6	319.9	319.9	309.2	10.72	29.855		
1,400.0	1,400.0	1,402.0	1,402.0	5.7	5.7	89.53	2.6	319.9	319.9	308.6	11.32	28.269		
1,500.0	1,500.0	1,502.0	1,502.0	6.0	6.0	89.53	2.6	319.9	319.9	308.0	11.93	26.815		
1,600.0	1,600.0	1,602.0	1,602.0	6.3	6.3	89.53	2.6	319.9	319.9	307.4	12.56	25.480		
1,700.0	1,700.0	1,702.0	1,702.0	6.6	6.6	89.53	2.6	319.9	319.9	306.8	13.19	24.255		
1,800.0	1,800.0	1,802.0	1,802.0	6.9	6.9	89.53	2.6	319.9	319.9	306.1	13.83	23.129		
1,900.0	1,900.0	1,902.0	1,902.0	7.2	7.2	89.53	2.6	319.9	319.9	305.5	14.48	22.092		
2,000.0	2,000.0	2,002.0	2,002.0	7.6	7.6	89.53	2.6	319.9	319.9	304.8	15.14	21.135		
2,100.0	2,100.0	2,102.0	2,102.0	7.9	7.9	89.53	2.6	319.9	319.9	304.1	15.80	20.251		
2,200.0	2,200.0	2,202.0	2,202.0	8.2	8.2	89.53	2.6	319.9	319.9	303.5	16.46	19.433		
2,300.0	2,300.0	2,302.0	2,302.0	8.6	8.6	89.53	2.6	319.9	319.9	302.8	17.13	18.673		
2,400.0	2,400.0	2,402.0	2,402.0	8.9	8.9	89.53	2.6	319.9	319.9	302.1	17.81	17.967		
2,416.0	2,416.0	2,418.0	2,418.0	9.0	9.0	89.53	2.6	319.9	319.9	302.0	17.91	17.859 CC		
2,500.0	2,500.0	2,500.0	2,500.0	9.2	9.2	89.53	2.6	319.9	319.9	301.5	18.48	17.316 ES		
2,600.0	2,600.0	2,592.0	2,592.0	9.6	9.5	178.87	3.1	321.3	323.3	304.2	19.11	16.918		
2,700.0	2,699.8	2,681.7	2,681.5	9.9	9.8	178.67	4.3	325.4	333.1	313.4	19.70	16.903 SF		
2,800.0	2,799.5	2,770.2	2,769.8	10.2	10.1	178.37	6.3	332.1	349.3	329.0	20.28	17.221		
2,864.6	2,863.6	2,829.7	2,829.0	10.4	10.3	178.13	8.1	337.9	363.0	342.4	20.67	17.560		
2,900.0	2,898.7	2,864.2	2,863.3	10.6	10.5	178.00	9.1	341.4	371.0	350.1	20.90	17.751		
3,000.0	2,997.9	2,961.6	2,960.2	10.9	10.8	177.66	12.0	351.1	393.7	372.1	21.55	18.268		
3,100.0	3,097.1	3,059.0	3,057.0	11.2	11.1	177.36	15.0	360.9	416.3	394.1	22.20	18.752		
3,200.0	3,196.3	3,156.4	3,153.9	11.6	11.4	177.09	17.9	370.6	439.0	416.1	22.86	19.205		
3,300.0	3,295.5	3,253.7	3,250.7	11.9	11.8	176.85	20.8	380.4	461.6	438.1	23.52	19.631		
3,400.0	3,394.7	3,351.1	3,347.6	12.2	12.1	176.62	23.7	390.1	484.3	460.1	24.18	20.030		
3,500.0	3,493.9	3,448.5	3,444.4	12.6	12.4	176.42	26.7	399.9	507.0	482.1	24.84	20.407		
3,600.0	3,593.1	3,545.9	3,541.3	12.9	12.8	176.24	29.6	409.6	529.6	504.1	25.51	20.761		
3,700.0	3,692.3	3,643.3	3,638.1	13.3	13.1	176.07	32.5	419.4	552.3	526.1	26.18	21.096		
3,800.0	3,791.5	3,740.7	3,734.9	13.6	13.4	175.92	35.5	429.1	575.0	548.1	26.85	21.412		
3,900.0	3,890.6	3,838.0	3,831.8	14.0	13.8	175.77	38.4	438.9	597.7	570.2	27.53	21.710		
4,000.0	3,989.8	3,935.4	3,928.6	14.3	14.1	175.64	41.3	448.6	620.4	592.2	28.21	21.993		
4,100.0	4,089.0	4,032.8	4,025.5	14.7	14.5	175.51	44.3	458.4	643.1	614.2	28.89	22.262		
4,200.0	4,188.2	4,130.2	4,122.3	15.0	14.8	175.40	47.2	468.1	665.8	636.2	29.57	22.517		
4,300.0	4,287.4	4,227.6	4,219.2	15.4	15.1	175.29	50.1	477.9	688.5	658.2	30.25	22.759		
4,400.0	4,386.6	4,324.9	4,316.0	15.7	15.5	175.19	53.0	487.6	711.2	680.2	30.94	22.989		
4,500.0	4,485.8	4,422.3	4,412.9	16.1	15.8	175.10	56.0	497.4	733.9	702.3	31.62	23.208		
4,600.0	4,585.0	4,519.7	4,509.7	16.4	16.2	175.01	58.9	507.1	756.6	724.3	32.31	23.417		
4,700.0	4,684.2	4,617.1	4,606.6	16.8	16.5	174.92	61.8	516.9	779.3	746.3	33.00	23.617		
4,800.0	4,783.4	4,714.5	4,703.4	17.2	16.9	174.84	64.8	526.6	802.0	768.3	33.69	23.807		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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												Offset Well Error:	3.0 usft
Reference	Measured	Vertical	Measured	Vertical	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Depth	Reference	Offset	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)			
4,900.0	4,882.6	4,811.8	4,800.3	17.5	17.2	174.77	67.7	536.4	824.7	790.3	34.38	23.989	
5,000.0	4,981.7	4,909.2	4,897.1	17.9	17.6	174.70	70.6	546.1	847.4	812.3	35.07	24.163	
5,100.0	5,080.9	5,006.6	4,994.0	18.2	17.9	174.63	73.6	555.9	870.1	834.4	35.76	24.330	
5,200.0	5,180.1	5,104.0	5,090.8	18.6	18.3	174.57	76.5	565.6	892.8	856.4	36.46	24.489	
5,300.0	5,279.3	5,201.4	5,187.7	19.0	18.6	174.51	79.4	575.3	915.6	878.4	37.15	24.643	
5,400.0	5,378.5	5,298.8	5,284.5	19.3	18.9	174.45	82.3	585.1	938.3	900.4	37.85	24.789	
5,500.0	5,477.7	5,396.1	5,381.4	19.7	19.3	174.40	85.3	594.8	961.0	922.4	38.55	24.931	
5,600.0	5,576.9	5,493.5	5,478.2	20.0	19.6	174.34	88.2	604.6	983.7	944.5	39.24	25.066	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)			
0.0	0.0	3.0	3.0	3.0	3.0	89.52		2.4	290.0	290.0				
100.0	100.0	103.0	103.0	3.0	3.0	89.52		2.4	290.0	290.0	284.0	6.00	48.305	
200.0	200.0	203.0	203.0	3.0	3.0	89.52		2.4	290.0	290.0	283.9	6.04	47.996	
300.0	300.0	303.0	303.0	3.1	3.0	89.52		2.4	290.0	290.0	283.9	6.12	47.358	
400.0	400.0	403.0	403.0	3.2	3.0	89.52		2.4	290.0	290.0	283.7	6.24	46.441	
500.0	500.0	503.0	503.0	3.4	3.1	89.52		2.4	290.0	290.0	283.6	6.40	45.303	
600.0	600.0	603.0	603.0	3.6	3.1	89.52		2.4	290.0	290.0	283.4	6.59	44.010	
700.0	700.0	703.0	703.0	3.8	3.1	89.52		2.4	290.0	290.0	283.2	6.80	42.617	
800.0	800.0	803.0	803.0	4.0	3.2	89.52		2.4	290.0	290.0	282.9	7.04	41.174	
900.0	900.0	903.0	903.0	4.2	3.2	89.52		2.4	290.0	290.0	282.7	7.30	39.718	
1,000.0	1,000.0	1,003.0	1,003.0	4.5	3.2	89.52		2.4	290.0	290.0	282.4	7.58	38.277	
1,100.0	1,100.0	1,103.0	1,103.0	4.8	3.3	89.52		2.4	290.0	290.0	282.1	7.86	36.870	
1,200.0	1,200.0	1,203.0	1,203.0	5.1	3.4	89.52		2.4	290.0	290.0	281.8	8.17	35.511	
1,300.0	1,300.0	1,303.0	1,303.0	5.4	3.4	89.52		2.4	290.0	290.0	281.5	8.48	34.205	
1,400.0	1,400.0	1,403.0	1,403.0	5.7	3.5	89.52		2.4	290.0	290.0	281.2	8.80	32.959	
1,500.0	1,500.0	1,503.0	1,503.0	6.0	3.5	89.52		2.4	290.0	290.0	280.9	9.13	31.773	
1,600.0	1,600.0	1,603.0	1,603.0	6.3	3.6	89.52		2.4	290.0	290.0	280.5	9.46	30.647	
1,700.0	1,700.0	1,703.0	1,703.0	6.6	3.7	89.52		2.4	290.0	290.0	280.2	9.80	29.580	
1,800.0	1,800.0	1,803.0	1,803.0	6.9	3.8	89.52		2.4	290.0	290.0	279.8	10.15	28.570	
1,900.0	1,900.0	1,903.0	1,903.0	7.2	3.9	89.52		2.4	290.0	290.0	279.5	10.50	27.614	
2,000.0	2,000.0	2,003.0	2,003.0	7.6	3.9	89.52		2.4	290.0	290.0	279.1	10.86	26.709	
2,100.0	2,100.0	2,103.0	2,103.0	7.9	4.0	89.52		2.4	290.0	290.0	278.8	11.22	25.852	
2,200.0	2,200.0	2,203.0	2,203.0	8.2	4.1	89.52		2.4	290.0	290.0	278.4	11.58	25.041	
2,300.0	2,300.0	2,303.0	2,303.0	8.6	4.2	89.52		2.4	290.0	290.0	278.0	11.95	24.273	
2,400.0	2,400.0	2,403.0	2,403.0	8.9	4.3	89.52		2.4	290.0	290.0	277.7	12.32	23.545	
2,415.6	2,415.6	2,418.6	2,418.6	9.0	4.3	89.52		2.4	290.0	290.0	277.6	12.37	23.435 CC	
2,500.0	2,500.0	2,502.9	2,502.9	9.2	4.4	89.52		2.4	290.0	290.0	277.3	12.69	22.854 ES	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	4.5	178.64		3.9	290.8	292.6	279.6	13.05	22.418	
2,700.0	2,699.8	2,692.4	2,692.3	9.9	4.6	177.88		8.0	293.2	300.5	287.1	13.41	22.407 SF	
2,800.0	2,799.5	2,791.1	2,790.7	10.2	4.7	176.85		14.0	296.6	312.9	299.1	13.78	22.707	
2,864.6	2,863.6	2,854.8	2,854.3	10.4	4.7	176.24		17.8	298.9	322.7	308.7	14.02	23.022	
2,900.0	2,898.7	2,889.7	2,889.1	10.6	4.7	175.93		19.9	300.1	328.6	314.4	14.15	23.218	
3,000.0	2,997.9	2,988.2	2,987.4	10.9	4.8	175.11		25.9	303.5	345.1	330.5	14.53	23.752	
3,100.0	3,097.1	3,086.7	3,085.6	11.2	4.9	174.37		31.8	306.9	361.6	346.7	14.91	24.255	
3,200.0	3,196.3	3,185.3	3,183.9	11.6	5.0	173.69		37.8	310.4	378.3	363.0	15.30	24.727	
3,300.0	3,295.5	3,283.8	3,282.2	11.9	5.1	173.07		43.7	313.8	394.9	379.2	15.69	25.172	
3,400.0	3,394.7	3,382.3	3,380.5	12.2	5.2	172.50		49.7	317.3	411.6	395.5	16.09	25.590	
3,500.0	3,493.9	3,480.8	3,478.7	12.6	5.3	171.98		55.6	320.7	428.4	411.9	16.49	25.983	
3,600.0	3,593.1	3,579.3	3,577.0	12.9	5.4	171.49		61.6	324.1	445.1	428.3	16.89	26.353	
3,700.0	3,692.3	3,677.8	3,675.3	13.3	5.5	171.04		67.5	327.6	461.9	444.6	17.30	26.703	
3,800.0	3,791.5	3,776.3	3,773.6	13.6	5.6	170.62		73.5	331.0	478.8	461.1	17.71	27.032	
3,900.0	3,890.6	3,874.9	3,871.8	14.0	5.7	170.23		79.4	334.4	495.6	477.5	18.13	27.343	
4,000.0	3,989.8	3,973.4	3,970.1	14.3	5.8	169.87		85.4	337.9	512.5	494.0	18.54	27.637	
4,100.0	4,089.0	4,071.9	4,068.4	14.7	5.9	169.53		91.3	341.3	529.4	510.4	18.97	27.914	
4,200.0	4,188.2	4,170.4	4,166.7	15.0	6.0	169.21		97.3	344.7	546.3	526.9	19.39	28.177	
4,300.0	4,287.4	4,268.9	4,264.9	15.4	6.1	168.90		103.2	348.2	563.2	543.4	19.81	28.426	
4,400.0	4,386.6	4,367.4	4,363.2	15.7	6.2	168.62		109.2	351.6	580.2	559.9	20.24	28.661	
4,500.0	4,485.8	4,466.0	4,461.5	16.1	6.4	168.35		115.2	355.0	597.1	576.5	20.67	28.885	
4,600.0	4,585.0	4,564.5	4,559.8	16.4	6.5	168.10		121.1	358.5	614.1	593.0	21.11	29.097	
4,700.0	4,684.2	4,663.0	4,658.0	16.8	6.6	167.86		127.1	361.9	631.1	609.5	21.54	29.298	
4,800.0	4,783.4	4,765.1	4,759.9	17.2	6.7	167.64		133.1	365.4	647.9	626.0	21.99	29.471	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.0	4,882.6	4,872.0	4,866.6	17.5	6.8	167.53	137.9	368.2	663.8	641.3	22.44	29.577	
5,000.0	4,981.7	4,979.3	4,973.9	17.9	6.9	167.55	141.0	369.9	678.4	655.5	22.89	29.632	
5,100.0	5,080.9	5,086.9	5,081.5	18.2	7.1	167.70	142.4	370.7	691.7	668.4	23.34	29.637	
5,200.0	5,180.1	5,188.5	5,183.1	18.6	7.2	167.92	142.4	370.8	704.2	680.4	23.75	29.647	
5,300.0	5,279.3	5,287.7	5,282.3	19.0	7.3	168.13	142.4	370.8	716.6	692.5	24.16	29.666	
5,400.0	5,378.5	5,386.9	5,381.5	19.3	7.4	168.34	142.4	370.8	729.0	704.5	24.56	29.684	
5,500.0	5,477.7	5,486.1	5,480.7	19.7	7.5	168.54	142.4	370.8	741.5	716.5	24.97	29.701	
5,600.0	5,576.9	5,585.3	5,579.9	20.0	7.6	168.73	142.4	370.8	753.9	728.6	25.37	29.716	
5,700.0	5,676.1	5,684.5	5,679.1	20.4	7.8	168.91	142.4	370.8	766.4	740.6	25.78	29.731	
5,800.0	5,775.3	5,783.7	5,778.3	20.8	7.9	169.09	142.4	370.8	778.8	752.7	26.18	29.745	
5,900.0	5,874.5	5,882.9	5,877.5	21.1	8.0	169.27	142.4	370.8	791.3	764.7	26.59	29.757	
6,000.0	5,973.7	5,982.1	5,976.7	21.5	8.1	169.43	142.4	370.8	803.8	776.8	27.00	29.769	
6,100.0	6,072.9	6,081.3	6,075.9	21.8	8.2	169.60	142.4	370.8	816.3	788.9	27.41	29.780	
6,200.0	6,172.0	6,180.4	6,175.0	22.2	8.4	169.76	142.4	370.8	828.8	800.9	27.82	29.790	
6,300.0	6,271.2	6,279.6	6,274.2	22.6	8.5	169.91	142.4	370.8	841.3	813.0	28.23	29.800	
6,400.0	6,370.4	6,378.8	6,373.4	22.9	8.6	170.06	142.4	370.8	853.8	825.1	28.64	29.808	
6,500.0	6,469.6	6,478.0	6,472.6	23.3	8.7	170.20	142.4	370.8	866.3	837.2	29.05	29.816	
6,600.0	6,568.8	6,577.2	6,571.8	23.7	8.8	170.34	142.4	370.8	878.8	849.3	29.47	29.824	
6,700.0	6,668.0	6,676.4	6,671.0	24.0	9.0	170.48	142.4	370.8	891.3	861.4	29.88	29.831	
6,800.0	6,767.2	6,775.6	6,770.2	24.4	9.1	170.61	142.4	370.8	903.8	873.5	30.29	29.837	
6,900.0	6,866.4	6,874.8	6,869.4	24.7	9.2	170.74	142.4	370.8	916.3	885.6	30.71	29.843	
7,000.0	6,965.6	6,974.0	6,968.6	25.1	9.3	170.87	142.4	370.8	928.9	897.8	31.12	29.848	
7,100.0	7,064.8	7,073.2	7,067.8	25.5	9.4	170.99	142.4	370.8	941.4	909.9	31.53	29.853	
7,200.0	7,164.0	7,172.4	7,167.0	25.8	9.6	171.11	142.4	370.8	953.9	922.0	31.95	29.857	
7,300.0	7,263.2	7,271.6	7,266.2	26.2	9.7	171.23	142.4	370.8	966.5	934.1	32.37	29.861	
7,400.0	7,362.3	7,370.7	7,365.3	26.6	9.8	171.34	142.4	370.8	979.0	946.3	32.78	29.865	
7,500.0	7,461.5	7,469.9	7,464.5	26.9	9.9	171.45	142.4	370.8	991.6	958.4	33.20	29.868	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	89.52		2.2	260.0	260.0				
100.0	100.0	101.0	101.0	3.0	3.0	89.52		2.2	260.0	260.0	254.0	6.00	43.319	
200.0	200.0	201.0	201.0	3.0	3.0	89.52		2.2	260.0	260.0	254.0	6.04	43.042	
300.0	300.0	301.0	301.0	3.1	3.0	89.52		2.2	260.0	260.0	253.9	6.12	42.470	
400.0	400.0	401.0	401.0	3.2	3.0	89.52		2.2	260.0	260.0	253.8	6.24	41.647	
500.0	500.0	501.0	501.0	3.4	3.1	89.52		2.2	260.0	260.0	253.6	6.40	40.628	
600.0	600.0	601.0	601.0	3.6	3.1	89.52		2.2	260.0	260.0	253.5	6.59	39.468	
700.0	700.0	701.0	701.0	3.8	3.1	89.52		2.2	260.0	260.0	253.2	6.80	38.219	
800.0	800.0	801.0	801.0	4.0	3.2	89.52		2.2	260.0	260.0	253.0	7.04	36.925	
900.0	900.0	901.0	901.0	4.2	3.2	89.52		2.2	260.0	260.0	252.7	7.30	35.619	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	3.2	89.52		2.2	260.0	260.0	252.5	7.58	34.327	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	3.3	89.52		2.2	260.0	260.0	252.2	7.86	33.066	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	3.4	89.52		2.2	260.0	260.0	251.9	8.17	31.846	
1,300.0	1,300.0	1,301.0	1,301.0	5.4	3.4	89.52		2.2	260.0	260.0	251.6	8.48	30.676	
1,400.0	1,400.0	1,401.0	1,401.0	5.7	3.5	89.52		2.2	260.0	260.0	251.3	8.80	29.558	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	3.5	89.52		2.2	260.0	260.0	250.9	9.13	28.494	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	3.6	89.52		2.2	260.0	260.0	250.6	9.46	27.485	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	3.7	89.52		2.2	260.0	260.0	250.2	9.80	26.528	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	3.8	89.52		2.2	260.0	260.0	249.9	10.15	25.622	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	3.9	89.52		2.2	260.0	260.0	249.5	10.50	24.764	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	3.9	89.52		2.2	260.0	260.0	249.2	10.86	23.953	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	4.0	89.52		2.2	260.0	260.0	248.8	11.22	23.185	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	4.1	89.52		2.2	260.0	260.0	248.5	11.58	22.457	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	4.2	89.52		2.2	260.0	260.0	248.1	11.95	21.768	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	4.3	89.52		2.2	260.0	260.0	247.7	12.32	21.115	
2,500.0	2,500.0	2,501.1	2,501.1	9.2	4.4	89.52		2.2	260.0	260.0	247.4	12.69	20.496	
2,571.2	2,571.2	2,578.7	2,578.7	9.5	4.5	178.83		2.6	259.1	260.0	247.1	12.95	20.083	CC
2,600.0	2,600.0	2,610.0	2,610.0	9.6	4.5	178.74		3.1	258.1	260.0	247.0	13.05	19.923	
2,700.0	2,699.8	2,718.9	2,718.7	9.9	4.5	178.18		5.7	252.4	260.1	246.7	13.40	19.408	ES
2,800.0	2,799.5	2,821.4	2,820.8	10.2	4.6	177.40		9.3	244.5	261.1	247.4	13.76	18.974	
2,864.6	2,863.6	2,885.9	2,885.0	10.4	4.6	176.93		11.7	239.4	263.6	249.6	14.00	18.826	
2,900.0	2,898.7	2,921.3	2,920.3	10.6	4.7	176.67		12.9	236.6	265.3	251.2	14.13	18.774	
3,000.0	2,997.9	3,021.1	3,019.7	10.9	4.7	175.98		16.6	228.6	270.3	255.8	14.51	18.633	
3,100.0	3,097.1	3,120.9	3,119.2	11.2	4.8	175.31		20.2	220.7	275.3	260.4	14.88	18.496	
3,200.0	3,196.3	3,220.7	3,218.6	11.6	4.9	174.67		23.8	212.8	280.3	265.1	15.27	18.363	
3,300.0	3,295.5	3,320.6	3,318.1	11.9	5.0	174.05		27.4	204.9	285.4	269.8	15.65	18.235	
3,400.0	3,394.7	3,420.4	3,417.5	12.2	5.0	173.45		31.1	197.0	290.5	274.5	16.04	18.110	
3,500.0	3,493.9	3,520.2	3,517.0	12.6	5.1	172.87		34.7	189.1	295.7	279.2	16.43	17.990	
3,600.0	3,593.1	3,620.0	3,616.4	12.9	5.2	172.32		38.3	181.2	300.8	284.0	16.83	17.873	
3,700.0	3,692.3	3,719.8	3,715.8	13.3	5.3	171.78		41.9	173.3	306.0	288.8	17.23	17.760	
3,800.0	3,791.5	3,819.7	3,815.3	13.6	5.4	171.26		45.5	165.4	311.2	293.6	17.63	17.651	
3,900.0	3,890.6	3,919.5	3,914.7	14.0	5.4	170.75		49.2	157.5	316.5	298.4	18.04	17.546	
4,000.0	3,989.8	4,019.3	4,014.2	14.3	5.5	170.26		52.8	149.6	321.7	303.3	18.44	17.444	
4,100.0	4,089.0	4,119.1	4,113.6	14.7	5.6	169.79		56.4	141.6	327.0	308.2	18.85	17.345	
4,200.0	4,188.2	4,219.0	4,213.1	15.0	5.7	169.34		60.0	133.7	332.3	313.1	19.27	17.249	
4,300.0	4,287.4	4,318.8	4,312.5	15.4	5.8	168.89		63.7	125.8	337.7	318.0	19.68	17.157	
4,400.0	4,386.6	4,418.6	4,412.0	15.7	5.9	168.46		67.3	117.9	343.0	322.9	20.10	17.067	
4,500.0	4,485.8	4,518.4	4,511.4	16.1	6.0	168.05		70.9	110.0	348.4	327.9	20.52	16.980	
4,600.0	4,585.0	4,618.3	4,610.8	16.4	6.1	167.65		74.5	102.1	353.8	332.9	20.94	16.896	
4,700.0	4,684.2	4,718.1	4,710.3	16.8	6.2	167.26		78.2	94.2	359.2	337.8	21.36	16.815	
4,800.0	4,783.4	4,817.9	4,809.7	17.2	6.3	166.88		81.8	86.3	364.6	342.8	21.79	16.736	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
4,900.0	4,882.6	4,917.7	4,909.2	17.5	6.4	166.51	85.4	78.4	370.1	347.8	22.21	16.659		
5,000.0	4,981.7	5,017.6	5,008.6	17.9	6.5	166.15	89.0	70.5	375.5	352.9	22.64	16.585		
5,100.0	5,080.9	5,117.4	5,108.1	18.2	6.6	165.80	92.7	62.5	381.0	357.9	23.07	16.513		
5,200.0	5,180.1	5,217.2	5,207.5	18.6	6.7	165.47	96.3	54.6	386.5	363.0	23.50	16.443		
5,300.0	5,279.3	5,317.0	5,307.0	19.0	6.8	165.14	99.9	46.7	391.9	368.0	23.94	16.375		
5,400.0	5,378.5	5,416.9	5,406.4	19.3	6.9	164.82	103.5	38.8	397.5	373.1	24.37	16.309		
5,500.0	5,477.7	5,516.7	5,505.8	19.7	7.0	164.51	107.1	30.9	403.0	378.2	24.81	16.245		
5,600.0	5,576.9	5,616.5	5,605.3	20.0	7.1	164.21	110.8	23.0	408.5	383.3	25.24	16.183		
5,700.0	5,676.1	5,716.3	5,704.7	20.4	7.2	163.91	114.4	15.1	414.0	388.4	25.68	16.122		
5,800.0	5,775.3	5,816.2	5,804.2	20.8	7.3	163.63	118.0	7.2	419.6	393.5	26.12	16.063		
5,900.0	5,874.5	5,916.0	5,903.6	21.1	7.5	163.35	121.6	-0.7	425.1	398.6	26.56	16.006		
6,000.0	5,973.7	6,015.8	6,003.1	21.5	7.6	163.08	125.3	-8.6	430.7	403.7	27.00	15.950		
6,100.0	6,072.9	6,115.6	6,102.5	21.8	7.7	162.81	128.9	-16.6	436.3	408.9	27.45	15.896		
6,200.0	6,172.0	6,213.3	6,199.8	22.2	7.8	162.57	132.4	-24.2	442.0	414.1	27.89	15.848		
6,300.0	6,271.2	6,307.6	6,293.9	22.6	7.9	162.45	135.2	-30.4	448.7	420.3	28.33	15.838 SF		
6,400.0	6,370.4	6,400.0	6,386.1	22.9	8.0	162.46	137.4	-35.1	456.6	427.8	28.76	15.874		
6,500.0	6,469.6	6,495.6	6,481.7	23.3	8.1	162.60	139.0	-38.6	465.7	436.5	29.20	15.949		
6,600.0	6,568.8	6,589.3	6,575.3	23.7	8.2	162.86	139.9	-40.6	476.1	446.5	29.64	16.062		
6,700.0	6,668.0	6,683.0	6,669.0	24.0	8.3	163.22	140.2	-41.2	487.7	457.7	30.06	16.224		
6,800.0	6,767.2	6,782.2	6,768.2	24.4	8.4	163.64	140.2	-41.2	499.9	469.4	30.48	16.403		
6,900.0	6,866.4	6,881.4	6,867.4	24.7	8.5	164.04	140.2	-41.2	512.1	481.2	30.89	16.579		
7,000.0	6,965.6	6,980.6	6,966.6	25.1	8.6	164.42	140.2	-41.2	524.3	493.0	31.30	16.750		
7,100.0	7,064.8	7,079.8	7,065.8	25.5	8.7	164.79	140.2	-41.2	536.6	504.8	31.72	16.917		
7,200.0	7,164.0	7,179.0	7,165.0	25.8	8.8	165.13	140.2	-41.2	548.8	516.7	32.13	17.081		
7,300.0	7,263.2	7,278.1	7,264.2	26.2	8.9	165.47	140.2	-41.2	561.1	528.6	32.55	17.240		
7,400.0	7,362.3	7,377.3	7,363.3	26.6	9.0	165.78	140.2	-41.2	573.4	540.4	32.96	17.396		
7,500.0	7,461.5	7,476.5	7,462.5	26.9	9.1	166.09	140.2	-41.2	585.7	552.3	33.38	17.548		
7,600.0	7,560.7	7,575.7	7,561.7	27.3	9.3	166.38	140.2	-41.2	598.1	564.3	33.79	17.697		
7,700.0	7,659.9	7,674.9	7,660.9	27.7	9.4	166.66	140.2	-41.2	610.4	576.2	34.21	17.842		
7,800.0	7,759.1	7,774.1	7,760.1	28.0	9.5	166.93	140.2	-41.2	622.8	588.1	34.63	17.984		
7,900.0	7,858.3	7,873.3	7,859.3	28.4	9.6	167.19	140.2	-41.2	635.1	600.1	35.05	18.123		
8,000.0	7,957.5	7,972.5	7,958.5	28.8	9.7	167.44	140.2	-41.2	647.5	612.1	35.46	18.259		
8,100.0	8,056.7	8,071.7	8,057.7	29.1	9.8	167.68	140.2	-41.2	659.9	624.0	35.88	18.392		
8,200.0	8,155.9	8,170.9	8,156.9	29.5	9.9	167.91	140.2	-41.2	672.3	636.0	36.30	18.521		
8,300.0	8,255.1	8,270.1	8,256.1	29.9	10.0	168.13	140.2	-41.2	684.7	648.0	36.72	18.648		
8,400.0	8,354.3	8,369.2	8,355.3	30.2	10.1	168.35	140.2	-41.2	697.2	660.0	37.14	18.772		
8,500.0	8,453.4	8,468.4	8,454.4	30.6	10.2	168.55	140.2	-41.2	709.6	672.1	37.56	18.894		
8,600.0	8,552.6	8,567.6	8,553.6	31.0	10.4	168.75	140.2	-41.2	722.1	684.1	37.98	19.013		
8,700.0	8,651.8	8,666.8	8,652.8	31.3	10.5	168.94	140.2	-41.2	734.5	696.1	38.40	19.129		
8,800.0	8,751.0	8,766.0	8,752.0	31.7	10.6	169.13	140.2	-41.2	747.0	708.2	38.82	19.242		
8,900.0	8,850.2	8,865.2	8,851.2	32.1	10.7	169.31	140.2	-41.2	759.5	720.2	39.24	19.354		
9,000.0	8,949.4	8,964.4	8,950.4	32.4	10.8	169.49	140.2	-41.2	771.9	732.3	39.66	19.463		
9,100.0	9,048.6	9,063.6	9,049.6	32.8	10.9	169.66	140.2	-41.2	784.4	744.3	40.08	19.570		
9,200.0	9,147.8	9,162.8	9,148.8	33.2	11.0	169.82	140.2	-41.2	796.9	756.4	40.51	19.674		
9,300.0	9,247.0	9,262.0	9,248.0	33.5	11.2	169.98	140.2	-41.2	809.4	768.5	40.93	19.776		
9,400.0	9,346.2	9,361.2	9,347.2	33.9	11.3	170.13	140.2	-41.2	821.9	780.6	41.35	19.877		
9,500.0	9,445.4	9,460.4	9,446.4	34.3	11.4	170.28	140.2	-41.2	834.4	792.6	41.77	19.975		
9,600.0	9,544.6	9,559.5	9,545.6	34.6	11.5	170.43	140.2	-41.2	846.9	804.7	42.20	20.071		
9,700.0	9,643.7	9,658.7	9,644.7	35.0	11.6	170.57	140.2	-41.2	859.4	816.8	42.62	20.166		
9,800.0	9,742.9	9,757.9	9,743.9	35.4	11.7	170.70	140.2	-41.2	872.0	828.9	43.04	20.258		
9,900.0	9,842.1	9,857.1	9,843.1	35.7	11.9	170.84	140.2	-41.2	884.5	841.0	43.47	20.349		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
10,000.0	9,941.3	9,956.3	9,942.3	36.1	12.0	170.97	140.2	-41.2	897.0	853.1	43.89	20.438		
10,100.0	10,040.5	10,055.5	10,041.5	36.5	12.1	171.09	140.2	-41.2	909.6	865.3	44.32	20.525		
10,200.0	10,139.7	10,154.8	10,140.8	36.8	12.2	171.21	140.2	-41.2	922.1	877.4	44.74	20.611		
10,300.0	10,238.9	10,253.5	10,239.9	37.2	13.1	172.46	122.3	-41.1	932.9	887.7	45.28	20.606		
10,325.6	10,264.3	10,316.7	10,299.6	37.3	13.1	173.07	112.9	-41.0	935.3	889.9	45.42	20.593		
10,350.0	10,288.5	10,345.3	10,326.3	37.4	13.1	-166.89	102.5	-41.0	937.7	892.1	45.56	20.583		
10,375.0	10,313.1	10,373.9	10,352.3	37.5	13.2	-152.50	90.6	-40.9	940.5	894.8	45.70	20.581		
10,400.0	10,337.6	10,401.7	10,376.8	37.6	13.2	-142.69	77.6	-40.8	943.8	898.0	45.84	20.589		
10,425.0	10,361.8	10,428.8	10,399.9	37.7	13.2	-135.69	63.5	-40.7	947.5	901.5	45.98	20.606		
10,450.0	10,385.7	10,455.1	10,421.7	37.8	13.2	-130.41	48.6	-40.6	951.6	905.5	46.12	20.633		
10,475.0	10,409.3	10,480.8	10,442.0	37.8	13.3	-126.22	32.9	-40.5	956.1	909.8	46.25	20.670		
10,500.0	10,432.4	10,505.9	10,461.1	37.9	13.3	-122.73	16.6	-40.4	961.0	914.6	46.39	20.716		
10,525.0	10,455.0	10,530.5	10,478.8	38.0	13.3	-119.72	-0.3	-40.3	966.2	919.7	46.52	20.771		
10,550.0	10,477.0	10,554.4	10,495.3	38.1	13.4	-117.05	-17.8	-40.2	971.8	925.2	46.64	20.835		
10,575.0	10,498.4	10,577.9	10,510.6	38.2	13.4	-114.63	-35.6	-40.1	977.8	931.0	46.77	20.908		
10,600.0	10,519.1	10,601.0	10,524.7	38.3	13.4	-112.38	-53.8	-40.0	984.0	937.2	46.88	20.989		
10,625.0	10,539.1	10,623.6	10,537.7	38.3	13.5	-110.28	-72.3	-39.9	990.6	943.6	47.00	21.076		
10,650.0	10,558.3	10,645.8	10,549.6	38.4	13.5	-108.29	-91.0	-39.7	997.4	950.3	47.11	21.171		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #704H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.0	8,751.0	8,886.9	8,853.0	31.7	10.7	6.00	6.00	118.5	-1,749.3	982.9	942.4	40.53	24.249	
8,900.0	8,850.2	8,971.1	8,937.0	32.1	10.8	6.21	6.21	120.0	-1,742.3	962.4	921.3	41.04	23.447	
9,000.0	8,949.4	9,055.9	9,021.5	32.4	10.9	6.41	6.41	121.3	-1,736.5	943.2	901.6	41.55	22.698	
9,100.0	9,048.6	9,141.1	9,106.6	32.8	11.0	6.58	6.58	122.3	-1,731.9	925.4	883.3	42.06	22.000	
9,200.0	9,147.8	9,226.8	9,192.2	33.2	11.1	6.73	6.73	123.1	-1,728.5	909.0	866.4	42.57	21.351	
9,300.0	9,247.0	9,312.9	9,278.3	33.5	11.2	6.87	6.87	123.6	-1,726.3	894.0	850.9	43.08	20.751	
9,400.0	9,346.2	9,400.0	9,365.4	33.9	11.3	6.97	6.97	123.8	-1,725.4	880.4	836.8	43.59	20.197	
9,500.0	9,445.4	9,496.0	9,461.4	34.3	11.4	7.07	7.07	123.8	-1,725.4	867.8	823.8	44.01	19.719	
9,600.0	9,544.6	9,595.2	9,560.6	34.6	11.5	7.18	7.18	123.8	-1,725.4	855.2	810.8	44.40	19.259	
9,700.0	9,643.7	9,694.4	9,659.7	35.0	11.6	7.28	7.28	123.8	-1,725.4	842.6	797.8	44.80	18.807	
9,800.0	9,742.9	9,793.5	9,758.9	35.4	11.6	7.39	7.39	123.8	-1,725.4	830.0	784.8	45.20	18.364	
9,900.0	9,842.1	9,892.7	9,858.1	35.7	11.7	7.51	7.51	123.8	-1,725.4	817.4	771.8	45.60	17.928	
10,000.0	9,941.3	9,991.9	9,957.3	36.1	11.8	7.63	7.63	123.8	-1,725.4	804.8	758.8	45.99	17.499	
10,100.0	10,040.5	10,091.1	10,056.5	36.5	11.9	7.75	7.75	123.8	-1,725.4	792.3	745.9	46.39	17.078	
10,200.0	10,139.7	10,211.8	10,176.7	36.8	12.2	7.28	7.28	115.4	-1,725.3	778.7	732.0	46.74	16.662	
10,300.0	10,238.9	10,330.4	10,289.3	37.2	12.2	4.68	4.68	79.0	-1,725.1	762.3	715.0	47.22	16.143	
10,325.6	10,264.3	10,357.4	10,313.4	37.3	12.3	3.78	3.78	67.0	-1,725.0	757.9	710.5	47.37	16.000	
10,350.0	10,288.5	10,381.9	10,334.7	37.4	12.3	22.56	22.56	54.8	-1,724.9	753.7	706.1	47.52	15.860	
10,375.0	10,313.1	10,406.4	10,355.3	37.5	12.3	35.65	35.65	41.6	-1,724.9	749.1	701.5	47.68	15.713	
10,400.0	10,337.6	10,430.1	10,374.6	37.6	12.3	44.15	44.15	27.8	-1,724.8	744.5	696.6	47.83	15.563	
10,425.0	10,361.8	10,453.2	10,392.7	37.7	12.3	49.83	49.83	13.5	-1,724.7	739.6	691.6	47.99	15.411	
10,450.0	10,385.7	10,475.6	10,409.6	37.8	12.3	53.79	53.79	-1.2	-1,724.6	734.6	686.5	48.15	15.257	
10,475.0	10,409.3	10,497.6	10,425.5	37.8	12.4	56.66	56.66	-16.4	-1,724.5	729.5	681.2	48.31	15.101	
10,500.0	10,432.4	10,519.0	10,440.3	37.9	12.4	58.82	58.82	-31.9	-1,724.4	724.3	675.8	48.47	14.944	
10,525.0	10,455.0	10,540.0	10,464.1	38.0	12.4	60.50	60.50	-47.7	-1,724.3	718.9	670.3	48.62	14.787	
10,550.0	10,477.0	10,560.6	10,466.9	38.1	12.4	61.84	61.84	-63.8	-1,724.2	713.5	664.7	48.77	14.629	
10,575.0	10,498.4	10,580.8	10,478.8	38.2	12.5	62.94	62.94	-80.1	-1,724.1	707.9	659.0	48.92	14.471	
10,600.0	10,519.1	10,600.0	10,489.5	38.3	12.5	63.88	63.88	-96.1	-1,724.0	702.3	653.3	49.07	14.313	
10,625.0	10,539.1	10,620.2	10,500.0	38.3	12.5	64.64	64.64	-113.3	-1,723.9	696.6	647.4	49.21	14.155	
10,650.0	10,558.3	10,639.4	10,509.4	38.4	12.5	65.32	65.32	-130.1	-1,723.8	690.8	641.5	49.35	13.997	
10,675.0	10,576.6	10,658.4	10,517.9	38.5	12.6	65.93	65.93	-147.1	-1,723.7	685.0	635.5	49.49	13.840	
10,700.0	10,594.0	10,677.2	10,525.7	38.6	12.6	66.47	66.47	-164.2	-1,723.6	679.1	629.5	49.63	13.684	
10,725.0	10,610.5	10,695.8	10,532.8	38.6	12.6	66.97	66.97	-181.3	-1,723.5	673.1	623.4	49.76	13.528	
10,750.0	10,626.0	10,714.1	10,539.1	38.7	12.7	67.44	67.44	-198.6	-1,723.4	667.2	617.3	49.89	13.373	
10,775.0	10,640.5	10,732.3	10,544.6	38.8	12.7	67.88	67.88	-215.9	-1,723.3	661.1	611.1	50.02	13.219	
10,800.0	10,653.8	10,750.0	10,549.4	38.8	12.7	68.30	68.30	-232.9	-1,723.2	655.1	604.9	50.14	13.066	
10,825.0	10,666.1	10,768.3	10,553.7	38.9	12.7	68.69	68.69	-250.7	-1,723.1	649.0	598.8	50.26	12.914	
10,850.0	10,677.2	10,786.1	10,557.2	39.0	12.8	69.08	69.08	-268.1	-1,723.0	642.9	592.6	50.37	12.763	
10,875.0	10,687.2	10,803.8	10,560.1	39.0	12.8	69.45	69.45	-285.6	-1,722.9	636.8	586.4	50.49	12.614	
10,900.0	10,695.9	10,821.4	10,562.3	39.1	12.8	69.82	69.82	-303.0	-1,722.7	630.7	580.2	50.60	12.466	
10,925.0	10,703.4	10,838.9	10,563.8	39.1	12.9	70.19	70.19	-320.5	-1,722.6	624.7	574.0	50.71	12.319	
10,950.0	10,709.7	10,856.4	10,564.7	39.2	12.9	70.55	70.55	-337.9	-1,722.5	618.6	567.8	50.81	12.175	
10,975.0	10,714.7	10,874.4	10,565.0	39.2	12.9	70.90	70.90	-355.9	-1,722.4	612.6	561.7	50.91	12.031	
11,000.0	10,718.4	10,897.9	10,565.0	39.3	13.0	71.17	71.17	-379.5	-1,722.3	606.4	555.4	51.04	11.882	
11,025.0	10,720.8	10,921.7	10,565.0	39.3	13.0	71.55	71.55	-403.3	-1,722.1	600.0	548.9	51.16	11.729	
11,050.0	10,722.0	10,945.6	10,565.0	39.4	13.0	72.06	72.06	-427.2	-1,722.0	593.5	542.2	51.28	11.573	
11,059.4	10,722.0	10,954.6	10,565.0	39.4	13.1	72.28	72.28	-436.1	-1,721.9	590.9	539.6	51.32	11.514	
11,100.0	10,722.0	10,993.6	10,565.0	39.4	13.1	72.01	72.01	-475.2	-1,721.7	580.2	528.7	51.51	11.263	
11,200.0	10,722.0	11,090.3	10,565.0	39.6	13.4	71.37	71.37	-571.9	-1,721.1	556.0	504.0	52.02	10.688	
11,300.0	10,722.0	11,187.9	10,565.0	39.8	13.7	70.76	70.76	-669.5	-1,720.5	535.2	482.6	52.59	10.177	
11,400.0	10,722.0	11,286.1	10,565.0	40.0	14.0	70.21	70.21	-767.7	-1,719.9	517.7	464.5	53.21	9.729	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #704H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,500.0	10,722.0	11,385.0	10,565.0	40.2	14.4	69.73	69.73	-866.6	-1,719.3	503.5	449.6	53.88	9.343	
11,600.0	10,722.0	11,484.3	10,565.0	40.4	14.9	69.33	69.33	-965.9	-1,718.7	492.5	437.9	54.61	9.020	
11,700.0	10,722.0	11,584.0	10,565.0	40.6	15.4	69.05	69.05	-1,065.5	-1,718.1	484.9	429.5	55.37	8.757	
11,800.0	10,722.0	11,683.9	10,565.0	40.9	15.9	68.88	68.88	-1,165.4	-1,717.5	480.5	424.3	56.18	8.552	
11,884.5	10,722.0	11,768.3	10,565.0	41.1	16.4	68.83	68.83	-1,249.9	-1,716.9	479.4	422.5	56.90	8.424 CC	
11,885.5	10,722.0	11,769.3	10,565.0	41.1	16.4	68.83	68.83	-1,250.9	-1,716.9	479.4	422.4	56.91	8.423	
11,900.0	10,722.0	11,783.8	10,565.0	41.1	16.5	68.83	68.83	-1,265.4	-1,716.8	479.4	422.3	57.04	8.404	
12,000.0	10,722.0	11,883.8	10,565.0	41.3	17.1	68.84	68.84	-1,365.4	-1,716.2	479.4	421.5	57.93	8.275	
12,100.0	10,722.0	11,983.8	10,565.0	41.6	17.8	68.84	68.84	-1,465.4	-1,715.6	479.4	420.6	58.86	8.146	
12,200.0	10,722.0	12,083.8	10,565.0	41.9	18.4	68.84	68.84	-1,565.4	-1,715.0	479.5	419.6	59.82	8.015	
12,300.0	10,722.0	12,183.8	10,565.0	42.2	19.1	68.84	68.84	-1,665.4	-1,714.4	479.5	418.7	60.81	7.885	
12,400.0	10,722.0	12,283.8	10,565.0	42.5	19.8	68.84	68.84	-1,765.4	-1,713.8	479.5	417.7	61.83	7.756	
12,500.0	10,722.0	12,383.8	10,565.0	42.8	20.5	68.84	68.84	-1,865.4	-1,713.2	479.6	416.7	62.88	7.627	
12,600.0	10,722.0	12,483.8	10,565.0	43.1	21.3	68.85	68.85	-1,965.4	-1,712.5	479.6	415.6	63.95	7.499	
12,700.0	10,722.0	12,583.8	10,565.0	43.4	22.0	68.85	68.85	-2,065.4	-1,711.9	479.6	414.6	65.05	7.373	
12,800.0	10,722.0	12,683.8	10,565.0	43.8	22.8	68.85	68.85	-2,165.4	-1,711.3	479.7	413.5	66.17	7.249	
12,900.0	10,722.0	12,783.8	10,565.0	44.2	23.5	68.85	68.85	-2,265.4	-1,710.7	479.7	412.4	67.31	7.126	
13,000.0	10,722.0	12,883.8	10,565.0	44.6	24.3	68.85	68.85	-2,365.4	-1,710.1	479.7	411.3	68.48	7.006	
13,100.0	10,722.0	12,983.8	10,565.0	44.9	25.0	68.85	68.85	-2,465.4	-1,709.5	479.8	410.1	69.66	6.887	
13,200.0	10,722.0	13,083.8	10,565.0	45.4	25.8	68.86	68.86	-2,565.4	-1,708.9	479.8	408.9	70.86	6.771	
13,300.0	10,722.0	13,183.8	10,565.0	45.8	26.6	68.86	68.86	-2,665.4	-1,708.2	479.8	407.8	72.08	6.657	
13,400.0	10,722.0	13,283.8	10,565.0	46.2	27.4	68.86	68.86	-2,765.4	-1,707.6	479.9	406.6	73.31	6.545	
13,500.0	10,722.0	13,383.8	10,565.0	46.6	28.2	68.86	68.86	-2,865.4	-1,707.0	479.9	405.3	74.57	6.436	
13,600.0	10,722.0	13,483.8	10,565.0	47.1	29.0	68.86	68.86	-2,965.4	-1,706.4	479.9	404.1	75.83	6.329	
13,700.0	10,722.0	13,583.8	10,565.0	47.6	29.8	68.86	68.86	-3,065.4	-1,705.8	480.0	402.9	77.11	6.224	
13,800.0	10,722.0	13,683.8	10,565.0	48.0	30.6	68.87	68.87	-3,165.4	-1,705.2	480.0	401.6	78.41	6.122	
13,900.0	10,722.0	13,783.8	10,565.0	48.5	31.4	68.87	68.87	-3,265.4	-1,704.6	480.0	400.3	79.72	6.022	
14,000.0	10,722.0	13,883.8	10,565.0	49.0	32.2	68.87	68.87	-3,365.4	-1,703.9	480.1	399.0	81.04	5.924	
14,100.0	10,722.0	13,983.8	10,565.0	49.5	33.0	68.87	68.87	-3,465.4	-1,703.3	480.1	397.7	82.37	5.829	
14,200.0	10,722.0	14,083.8	10,565.0	50.0	33.8	68.87	68.87	-3,565.4	-1,702.7	480.1	396.4	83.71	5.735	
14,300.0	10,722.0	14,183.8	10,565.0	50.6	34.6	68.87	68.87	-3,665.4	-1,702.1	480.2	395.1	85.07	5.644	
14,400.0	10,722.0	14,283.8	10,565.0	51.1	35.5	68.88	68.88	-3,765.4	-1,701.5	480.2	393.8	86.44	5.556	
14,500.0	10,722.0	14,383.8	10,565.0	51.6	36.3	68.88	68.88	-3,865.4	-1,700.9	480.2	392.4	87.81	5.469	
14,600.0	10,722.0	14,483.8	10,565.0	52.2	37.1	68.88	68.88	-3,965.4	-1,700.3	480.3	391.1	89.20	5.384	
14,700.0	10,722.0	14,583.8	10,565.0	52.8	37.9	68.88	68.88	-4,065.3	-1,699.7	480.3	389.7	90.60	5.302	
14,800.0	10,722.0	14,683.8	10,565.0	53.3	38.7	68.88	68.88	-4,165.3	-1,699.0	480.3	388.3	92.00	5.221	
14,900.0	10,722.0	14,783.8	10,565.0	53.9	39.6	68.88	68.88	-4,265.3	-1,698.4	480.4	387.0	93.41	5.142	
15,000.0	10,722.0	14,883.8	10,565.0	54.5	40.4	68.89	68.89	-4,365.3	-1,697.8	480.4	385.6	94.83	5.066	
15,100.0	10,722.0	14,983.8	10,565.0	55.1	41.2	68.89	68.89	-4,465.3	-1,697.2	480.4	384.2	96.26	4.991	
15,200.0	10,722.0	15,083.8	10,565.0	55.7	42.1	68.89	68.89	-4,565.3	-1,696.6	480.5	382.8	97.70	4.918	
15,300.0	10,722.0	15,183.8	10,565.0	56.3	42.9	68.89	68.89	-4,665.3	-1,696.0	480.5	381.4	99.15	4.846	
15,400.0	10,722.0	15,283.8	10,565.0	56.9	43.7	68.89	68.89	-4,765.3	-1,695.4	480.5	379.9	100.60	4.777	
15,500.0	10,722.0	15,383.8	10,565.0	57.5	44.6	68.89	68.89	-4,865.3	-1,694.7	480.6	378.5	102.06	4.709	
15,600.0	10,722.0	15,483.8	10,565.0	58.1	45.4	68.90	68.90	-4,965.3	-1,694.1	480.6	377.1	103.52	4.642	
15,700.0	10,722.0	15,583.8	10,565.0	58.8	46.2	68.90	68.90	-5,065.3	-1,693.5	480.6	375.6	104.99	4.578	
15,800.0	10,722.0	15,683.8	10,565.0	59.4	47.1	68.90	68.90	-5,165.3	-1,692.9	480.7	374.2	106.47	4.514	
15,900.0	10,722.0	15,783.8	10,565.0	60.0	47.9	68.90	68.90	-5,265.3	-1,692.3	480.7	372.7	107.96	4.453	
16,000.0	10,722.0	15,883.8	10,565.0	60.7	48.8	68.90	68.90	-5,365.3	-1,691.7	480.7	371.3	109.45	4.392	
16,100.0	10,722.0	15,983.8	10,565.0	61.3	49.6	68.90	68.90	-5,465.3	-1,691.1	480.8	369.8	110.94	4.334	
16,200.0	10,722.0	16,083.8	10,565.0	62.0	50.4	68.91	68.91	-5,565.3	-1,690.4	480.8	368.4	112.44	4.276	
16,300.0	10,722.0	16,183.8	10,565.0	62.6	51.3	68.91	68.91	-5,665.3	-1,689.8	480.8	366.9	113.95	4.220	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #704H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
16,400.0	10,722.0	16,283.8	10,565.0	63.3	52.1	68.91	-5,765.3	-1,689.2			480.9	365.4	115.46	4.165
16,500.0	10,722.0	16,383.8	10,565.0	64.0	53.0	68.91	-5,865.3	-1,688.6			480.9	363.9	116.97	4.111
16,600.0	10,722.0	16,483.8	10,565.0	64.7	53.8	68.91	-5,965.3	-1,688.0			480.9	362.4	118.49	4.059
16,700.0	10,722.0	16,583.8	10,565.0	65.3	54.7	68.91	-6,065.3	-1,687.4			481.0	361.0	120.02	4.008
16,800.0	10,722.0	16,683.8	10,565.0	66.0	55.5	68.92	-6,165.3	-1,686.8			481.0	359.5	121.54	3.957
16,900.0	10,722.0	16,783.8	10,565.0	66.7	56.3	68.92	-6,265.3	-1,686.1			481.0	358.0	123.08	3.908
17,000.0	10,722.0	16,883.8	10,565.0	67.4	57.2	68.92	-6,365.3	-1,685.5			481.1	356.5	124.61	3.861
17,100.0	10,722.0	16,983.8	10,565.0	68.1	58.0	68.92	-6,465.3	-1,684.9			481.1	355.0	126.15	3.814
17,200.0	10,722.0	17,083.8	10,565.0	68.8	58.9	68.92	-6,565.3	-1,684.3			481.1	353.4	127.70	3.768
17,300.0	10,722.0	17,183.8	10,565.0	69.5	59.7	68.92	-6,665.3	-1,683.7			481.2	351.9	129.25	3.723
17,400.0	10,722.0	17,283.8	10,565.0	70.2	60.6	68.93	-6,765.3	-1,683.1			481.2	350.4	130.80	3.679
17,500.0	10,722.0	17,383.8	10,565.0	70.9	61.4	68.93	-6,865.3	-1,682.5			481.2	348.9	132.35	3.636
17,600.0	10,722.0	17,483.8	10,565.0	71.6	62.3	68.93	-6,965.3	-1,681.8			481.3	347.4	133.91	3.594
17,700.0	10,722.0	17,583.8	10,565.0	72.3	63.1	68.93	-7,065.3	-1,681.2			481.3	345.8	135.47	3.553
17,800.0	10,722.0	17,683.8	10,565.0	73.1	64.0	68.93	-7,165.3	-1,680.6			481.3	344.3	137.04	3.512
17,900.0	10,722.0	17,783.8	10,565.0	73.8	64.8	68.93	-7,265.3	-1,680.0			481.4	342.8	138.60	3.473
18,000.0	10,722.0	17,883.8	10,565.0	74.5	65.7	68.94	-7,365.3	-1,679.4			481.4	341.2	140.17	3.434
18,100.0	10,722.0	17,983.8	10,565.0	75.2	66.5	68.94	-7,465.3	-1,678.8			481.4	339.7	141.75	3.396
18,200.0	10,722.0	18,083.8	10,565.0	76.0	67.4	68.94	-7,565.3	-1,678.2			481.5	338.2	143.32	3.359
18,300.0	10,722.0	18,183.8	10,565.0	76.7	68.2	68.94	-7,665.3	-1,677.5			481.5	336.6	144.90	3.323
18,400.0	10,722.0	18,283.8	10,565.0	77.4	69.1	68.94	-7,765.3	-1,676.9			481.5	335.1	146.48	3.287
18,500.0	10,722.0	18,383.8	10,565.0	78.2	69.9	68.94	-7,865.3	-1,676.3			481.6	333.5	148.07	3.252
18,600.0	10,722.0	18,483.8	10,565.0	78.9	70.8	68.95	-7,965.3	-1,675.7			481.6	332.0	149.65	3.218
18,700.0	10,722.0	18,583.8	10,565.0	79.7	71.6	68.95	-8,065.3	-1,675.1			481.6	330.4	151.24	3.185
18,800.0	10,722.0	18,683.8	10,565.0	80.4	72.5	68.95	-8,165.3	-1,674.5			481.7	328.8	152.83	3.152
18,900.0	10,722.0	18,783.8	10,565.0	81.2	73.3	68.95	-8,265.3	-1,673.9			481.7	327.3	154.43	3.119
19,000.0	10,722.0	18,883.8	10,565.0	81.9	74.2	68.95	-8,365.3	-1,673.3			481.7	325.7	156.02	3.088
19,100.0	10,722.0	18,983.8	10,565.0	82.7	75.0	68.95	-8,465.3	-1,672.6			481.8	324.2	157.62	3.057
19,200.0	10,722.0	19,083.8	10,565.0	83.4	75.9	68.96	-8,565.3	-1,672.0			481.8	322.6	159.22	3.026
19,300.0	10,722.0	19,183.8	10,565.0	84.2	76.7	68.96	-8,665.3	-1,671.4			481.8	321.0	160.82	2.996
19,400.0	10,722.0	19,283.8	10,565.0	84.9	77.6	68.96	-8,765.3	-1,670.8			481.9	319.5	162.42	2.967
19,500.0	10,722.0	19,383.8	10,565.0	85.7	78.5	68.96	-8,865.3	-1,670.2			481.9	317.9	164.03	2.938
19,600.0	10,722.0	19,483.8	10,565.0	86.4	79.3	68.96	-8,965.3	-1,669.6			481.9	316.3	165.64	2.910
19,700.0	10,722.0	19,583.8	10,565.0	87.2	80.2	68.96	-9,065.3	-1,669.0			482.0	314.7	167.24	2.882
19,800.0	10,722.0	19,683.8	10,565.0	88.0	81.0	68.97	-9,165.3	-1,668.3			482.0	313.2	168.85	2.855
19,900.0	10,722.0	19,783.8	10,565.0	88.7	81.9	68.97	-9,265.3	-1,667.7			482.0	311.6	170.47	2.828
20,000.0	10,722.0	19,883.8	10,565.0	89.5	82.7	68.97	-9,365.2	-1,667.1			482.1	310.0	172.08	2.801
20,100.0	10,722.0	19,983.8	10,565.0	90.3	83.6	68.97	-9,465.2	-1,666.5			482.1	308.4	173.70	2.776
20,200.0	10,722.0	20,083.8	10,565.0	91.1	84.4	68.97	-9,565.2	-1,665.9			482.1	306.8	175.31	2.750
20,300.0	10,722.0	20,183.8	10,565.0	91.8	85.3	68.97	-9,665.2	-1,665.3			482.2	305.2	176.93	2.725
20,400.0	10,722.0	20,283.8	10,565.0	92.6	86.1	68.98	-9,765.2	-1,664.7			482.2	303.7	178.55	2.701
20,500.0	10,722.0	20,383.8	10,565.0	93.4	87.0	68.98	-9,865.2	-1,664.0			482.2	302.1	180.17	2.677
20,600.0	10,722.0	20,483.8	10,565.0	94.2	87.8	68.98	-9,965.2	-1,663.4			482.3	300.5	181.80	2.653
20,700.0	10,722.0	20,583.8	10,565.0	94.9	88.7	68.98	-10,065.2	-1,662.8			482.3	298.9	183.42	2.630
20,800.0	10,722.0	20,683.8	10,565.0	95.7	89.6	68.98	-10,165.2	-1,662.2			482.3	297.3	185.05	2.607
20,863.7	10,722.0	20,747.5	10,565.0	96.2	90.1	68.98	-10,228.9	-1,661.8			482.4	296.3	186.08	2.592 ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #705H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
11,000.0	10,718.4	10,892.1	10,679.5	39.3	12.0	84.38		-398.9	-2,138.1	999.9	950.6	49.28	20.290	
11,025.0	10,720.8	10,911.5	10,682.0	39.3	12.0	85.38		-418.1	-2,137.9	992.3	943.0	49.36	20.104	
11,050.0	10,722.0	10,931.0	10,683.8	39.4	12.0	86.36		-437.5	-2,137.6	984.9	935.5	49.44	19.923	
11,059.4	10,722.0	10,938.3	10,684.3	39.4	12.1	86.72		-444.8	-2,137.6	982.2	932.7	49.46	19.857	
11,100.0	10,722.0	10,971.4	10,685.0	39.4	12.1	86.75		-477.9	-2,137.3	970.8	921.2	49.60	19.573	
11,200.0	10,722.0	11,068.1	10,685.0	39.6	12.3	86.69		-574.6	-2,136.7	945.5	895.4	50.10	18.874	
11,300.0	10,722.0	11,165.6	10,685.0	39.8	12.5	86.64		-672.2	-2,136.1	923.6	872.9	50.65	18.232	
11,400.0	10,722.0	11,263.9	10,685.0	40.0	12.7	86.59		-770.4	-2,135.5	905.0	853.8	51.28	17.649	
11,500.0	10,722.0	11,362.7	10,685.0	40.2	13.1	86.55		-869.3	-2,134.9	889.9	838.0	51.96	17.127	
11,600.0	10,722.0	11,462.0	10,685.0	40.4	13.5	86.52		-968.6	-2,134.2	878.3	825.6	52.70	16.666	
11,700.0	10,722.0	11,561.7	10,685.0	40.6	13.9	86.50		-1,068.2	-2,133.6	870.1	816.6	53.48	16.269	
11,800.0	10,722.0	11,661.6	10,685.0	40.9	14.5	86.48		-1,168.1	-2,133.0	865.4	811.1	54.31	15.934	
11,884.9	10,722.0	11,746.5	10,685.0	41.1	14.9	86.48		-1,253.0	-2,132.4	864.2	809.1	55.05	15.698 CC	
11,885.5	10,722.0	11,747.1	10,685.0	41.1	14.9	86.48		-1,253.6	-2,132.4	864.2	809.1	55.05	15.696	
11,900.0	10,722.0	11,761.6	10,685.0	41.1	15.0	86.48		-1,268.1	-2,132.3	864.2	809.0	55.18	15.660	
12,000.0	10,722.0	11,861.6	10,685.0	41.3	15.6	86.48		-1,368.1	-2,131.7	864.2	808.1	56.09	15.407	
12,100.0	10,722.0	11,961.6	10,685.0	41.6	16.3	86.48		-1,468.1	-2,131.1	864.2	807.2	57.03	15.153	
12,200.0	10,722.0	12,061.6	10,685.0	41.9	16.9	86.48		-1,568.1	-2,130.5	864.2	806.2	58.01	14.899	
12,300.0	10,722.0	12,161.6	10,685.0	42.2	17.6	86.48		-1,668.1	-2,129.8	864.2	805.2	59.01	14.645	
12,400.0	10,722.0	12,261.6	10,685.0	42.5	18.3	86.48		-1,768.1	-2,129.2	864.3	804.2	60.05	14.394	
12,500.0	10,722.0	12,361.6	10,685.0	42.8	19.1	86.48		-1,868.1	-2,128.6	864.3	803.2	61.11	14.144	
12,600.0	10,722.0	12,461.6	10,685.0	43.1	19.8	86.48		-1,968.1	-2,127.9	864.3	802.1	62.19	13.898	
12,700.0	10,722.0	12,561.6	10,685.0	43.4	20.6	86.48		-2,068.1	-2,127.3	864.3	801.0	63.30	13.655	
12,800.0	10,722.0	12,661.6	10,685.0	43.8	21.3	86.48		-2,168.1	-2,126.7	864.3	799.9	64.43	13.415	
12,900.0	10,722.0	12,761.6	10,685.0	44.2	22.1	86.48		-2,268.1	-2,126.0	864.4	798.8	65.58	13.180	
13,000.0	10,722.0	12,861.6	10,685.0	44.6	22.9	86.48		-2,368.1	-2,125.4	864.4	797.6	66.75	12.949	
13,100.0	10,722.0	12,961.6	10,685.0	44.9	23.6	86.48		-2,468.1	-2,124.8	864.4	796.5	67.94	12.722	
13,200.0	10,722.0	13,061.6	10,685.0	45.4	24.4	86.48		-2,568.1	-2,124.2	864.4	795.3	69.15	12.500	
13,300.0	10,722.0	13,161.6	10,685.0	45.8	25.2	86.48		-2,668.1	-2,123.5	864.5	794.1	70.38	12.283	
13,400.0	10,722.0	13,261.6	10,685.0	46.2	26.0	86.48		-2,768.1	-2,122.9	864.5	792.8	71.62	12.070	
13,500.0	10,722.0	13,361.6	10,685.0	46.6	26.8	86.48		-2,868.1	-2,122.3	864.5	791.6	72.88	11.862	
13,600.0	10,722.0	13,461.6	10,685.0	47.1	27.6	86.48		-2,968.1	-2,121.6	864.5	790.4	74.15	11.658	
13,700.0	10,722.0	13,561.6	10,685.0	47.6	28.4	86.48		-3,068.1	-2,121.0	864.5	789.1	75.44	11.460	
13,800.0	10,722.0	13,661.6	10,685.0	48.0	29.2	86.48		-3,168.1	-2,120.4	864.6	787.8	76.74	11.266	
13,900.0	10,722.0	13,761.6	10,685.0	48.5	30.1	86.48		-3,268.0	-2,119.7	864.6	786.5	78.06	11.076	
14,000.0	10,722.0	13,861.6	10,685.0	49.0	30.9	86.48		-3,368.0	-2,119.1	864.6	785.2	79.39	10.891	
14,100.0	10,722.0	13,961.6	10,685.0	49.5	31.7	86.48		-3,468.0	-2,118.5	864.6	783.9	80.72	10.711	
14,200.0	10,722.0	14,061.6	10,685.0	50.0	32.5	86.48		-3,568.0	-2,117.9	864.6	782.6	82.08	10.535	
14,300.0	10,722.0	14,161.6	10,685.0	50.6	33.3	86.48		-3,668.0	-2,117.2	864.7	781.2	83.44	10.363	
14,400.0	10,722.0	14,261.6	10,685.0	51.1	34.2	86.48		-3,768.0	-2,116.6	864.7	779.9	84.81	10.195	
14,500.0	10,722.0	14,361.6	10,685.0	51.6	35.0	86.48		-3,868.0	-2,116.0	864.7	778.5	86.19	10.032	
14,600.0	10,722.0	14,461.6	10,685.0	52.2	35.8	86.48		-3,968.0	-2,115.3	864.7	777.1	87.59	9.873	
14,700.0	10,722.0	14,561.6	10,685.0	52.8	36.7	86.48		-4,068.0	-2,114.7	864.7	775.7	88.99	9.717	
14,800.0	10,722.0	14,661.6	10,685.0	53.3	37.5	86.48		-4,168.0	-2,114.1	864.8	774.4	90.40	9.566	
14,900.0	10,722.0	14,761.6	10,685.0	53.9	38.3	86.48		-4,268.0	-2,113.5	864.8	773.0	91.82	9.418	
15,000.0	10,722.0	14,861.6	10,685.0	54.5	39.2	86.48		-4,368.0	-2,112.8	864.8	771.5	93.25	9.274	
15,100.0	10,722.0	14,961.6	10,685.0	55.1	40.0	86.48		-4,468.0	-2,112.2	864.8	770.1	94.69	9.133	
15,200.0	10,722.0	15,061.6	10,685.0	55.7	40.8	86.48		-4,568.0	-2,111.6	864.8	768.7	96.14	8.996	
15,300.0	10,722.0	15,161.6	10,685.0	56.3	41.7	86.48		-4,668.0	-2,110.9	864.9	767.3	97.59	8.862	
15,400.0	10,722.0	15,261.6	10,685.0	56.9	42.5	86.48		-4,768.0	-2,110.3	864.9	765.8	99.05	8.732	
15,500.0	10,722.0	15,361.6	10,685.0	57.5	43.4	86.49		-4,868.0	-2,109.7	864.9	764.4	100.52	8.604	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #705H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
15,600.0	10,722.0	15,461.6	10,685.0	58.1	44.2	86.49	-4,968.0	-2,109.0	864.9	762.9	101.99	8.480		
15,700.0	10,722.0	15,561.6	10,685.0	58.8	45.1	86.49	-5,068.0	-2,108.4	864.9	761.5	103.47	8.359		
15,800.0	10,722.0	15,661.6	10,685.0	59.4	45.9	86.49	-5,168.0	-2,107.8	865.0	760.0	104.96	8.241		
15,900.0	10,722.0	15,761.6	10,685.0	60.0	46.7	86.49	-5,268.0	-2,107.2	865.0	758.5	106.45	8.125		
16,000.0	10,722.0	15,861.6	10,685.0	60.7	47.6	86.49	-5,368.0	-2,106.5	865.0	757.0	107.95	8.013		
16,100.0	10,722.0	15,961.6	10,685.0	61.3	48.4	86.49	-5,468.0	-2,105.9	865.0	755.6	109.46	7.903		
16,200.0	10,722.0	16,061.6	10,685.0	62.0	49.3	86.49	-5,568.0	-2,105.3	865.0	754.1	110.97	7.795		
16,300.0	10,722.0	16,161.6	10,685.0	62.6	50.1	86.49	-5,668.0	-2,104.6	865.1	752.6	112.49	7.690		
16,400.0	10,722.0	16,261.6	10,685.0	63.3	51.0	86.49	-5,768.0	-2,104.0	865.1	751.1	114.01	7.588		
16,500.0	10,722.0	16,361.6	10,685.0	64.0	51.8	86.49	-5,868.0	-2,103.4	865.1	749.6	115.53	7.488		
16,600.0	10,722.0	16,461.6	10,685.0	64.7	52.7	86.49	-5,968.0	-2,102.7	865.1	748.1	117.06	7.390		
16,700.0	10,722.0	16,561.6	10,685.0	65.3	53.5	86.49	-6,068.0	-2,102.1	865.1	746.5	118.60	7.295		
16,800.0	10,722.0	16,661.6	10,685.0	66.0	54.4	86.49	-6,168.0	-2,101.5	865.2	745.0	120.14	7.201		
16,900.0	10,722.0	16,761.6	10,685.0	66.7	55.2	86.49	-6,268.0	-2,100.9	865.2	743.5	121.69	7.110		
17,000.0	10,722.0	16,861.6	10,685.0	67.4	56.1	86.49	-6,368.0	-2,100.2	865.2	742.0	123.23	7.021		
17,100.0	10,722.0	16,961.6	10,685.0	68.1	56.9	86.49	-6,468.0	-2,099.6	865.2	740.4	124.79	6.934		
17,200.0	10,722.0	17,061.6	10,685.0	68.8	57.8	86.49	-6,568.0	-2,099.0	865.2	738.9	126.34	6.848		
17,300.0	10,722.0	17,161.6	10,685.0	69.5	58.6	86.49	-6,668.0	-2,098.3	865.3	737.4	127.90	6.765		
17,400.0	10,722.0	17,261.6	10,685.0	70.2	59.5	86.49	-6,768.0	-2,097.7	865.3	735.8	129.47	6.683		
17,500.0	10,722.0	17,361.6	10,685.0	70.9	60.3	86.49	-6,868.0	-2,097.1	865.3	734.3	131.04	6.604		
17,600.0	10,722.0	17,461.6	10,685.0	71.6	61.2	86.49	-6,968.0	-2,096.4	865.3	732.7	132.61	6.525		
17,700.0	10,722.0	17,561.6	10,685.0	72.3	62.0	86.49	-7,068.0	-2,095.8	865.3	731.2	134.18	6.449		
17,800.0	10,722.0	17,661.6	10,685.0	73.1	62.9	86.49	-7,168.0	-2,095.2	865.4	729.6	135.76	6.374		
17,900.0	10,722.0	17,761.6	10,685.0	73.8	63.7	86.49	-7,268.0	-2,094.6	865.4	728.0	137.34	6.301		
18,000.0	10,722.0	17,861.6	10,685.0	74.5	64.6	86.49	-7,368.0	-2,093.9	865.4	726.5	138.93	6.229		
18,100.0	10,722.0	17,961.6	10,685.0	75.2	65.4	86.49	-7,468.0	-2,093.3	865.4	724.9	140.51	6.159		
18,200.0	10,722.0	18,061.6	10,685.0	76.0	66.3	86.49	-7,568.0	-2,092.7	865.4	723.3	142.10	6.090		
18,300.0	10,722.0	18,161.6	10,685.0	76.7	67.1	86.49	-7,668.0	-2,092.0	865.5	721.8	143.70	6.023		
18,400.0	10,722.0	18,261.6	10,685.0	77.4	68.0	86.49	-7,768.0	-2,091.4	865.5	720.2	145.29	5.957		
18,500.0	10,722.0	18,361.6	10,685.0	78.2	68.9	86.49	-7,868.0	-2,090.8	865.5	718.6	146.89	5.892		
18,600.0	10,722.0	18,461.6	10,685.0	78.9	69.7	86.49	-7,968.0	-2,090.1	865.5	717.0	148.49	5.829		
18,700.0	10,722.0	18,561.6	10,685.0	79.7	70.6	86.49	-8,068.0	-2,089.5	865.6	715.5	150.10	5.767		
18,800.0	10,722.0	18,661.6	10,685.0	80.4	71.4	86.49	-8,168.0	-2,088.9	865.6	713.9	151.70	5.706		
18,900.0	10,722.0	18,761.6	10,685.0	81.2	72.3	86.49	-8,268.0	-2,088.3	865.6	712.3	153.31	5.646		
19,000.0	10,722.0	18,861.6	10,685.0	81.9	73.1	86.49	-8,367.9	-2,087.6	865.6	710.7	154.92	5.587		
19,100.0	10,722.0	18,961.6	10,685.0	82.7	74.0	86.49	-8,467.9	-2,087.0	865.6	709.1	156.53	5.530		
19,200.0	10,722.0	19,061.6	10,685.0	83.4	74.8	86.49	-8,567.9	-2,086.4	865.7	707.5	158.15	5.474		
19,300.0	10,722.0	19,161.6	10,685.0	84.2	75.7	86.49	-8,667.9	-2,085.7	865.7	705.9	159.76	5.418		
19,400.0	10,722.0	19,261.6	10,685.0	84.9	76.6	86.49	-8,767.9	-2,085.1	865.7	704.3	161.38	5.364		
19,500.0	10,722.0	19,361.6	10,685.0	85.7	77.4	86.49	-8,867.9	-2,084.5	865.7	702.7	163.00	5.311		
19,600.0	10,722.0	19,461.6	10,685.0	86.4	78.3	86.49	-8,967.9	-2,083.9	865.7	701.1	164.63	5.259		
19,700.0	10,722.0	19,561.6	10,685.0	87.2	79.1	86.49	-9,067.9	-2,083.2	865.8	699.5	166.25	5.207		
19,800.0	10,722.0	19,661.6	10,685.0	88.0	80.0	86.49	-9,167.9	-2,082.6	865.8	697.9	167.88	5.157		
19,900.0	10,722.0	19,761.6	10,685.0	88.7	80.8	86.49	-9,267.9	-2,082.0	865.8	696.3	169.51	5.108		
20,000.0	10,722.0	19,861.6	10,685.0	89.5	81.7	86.49	-9,367.9	-2,081.3	865.8	694.7	171.14	5.059		
20,100.0	10,722.0	19,961.6	10,685.0	90.3	82.5	86.49	-9,467.9	-2,080.7	865.8	693.1	172.77	5.012		
20,200.0	10,722.0	20,061.6	10,685.0	91.1	83.4	86.49	-9,567.9	-2,080.1	865.9	691.5	174.40	4.965		
20,300.0	10,722.0	20,161.6	10,685.0	91.8	84.3	86.49	-9,667.9	-2,079.4	865.9	689.8	176.04	4.919		
20,400.0	10,722.0	20,261.6	10,685.0	92.6	85.1	86.49	-9,767.9	-2,078.8	865.9	688.2	177.67	4.874		
20,500.0	10,722.0	20,361.6	10,685.0	93.4	86.0	86.49	-9,867.9	-2,078.2	865.9	686.6	179.31	4.829		
20,600.0	10,722.0	20,461.6	10,685.0	94.2	86.8	86.49	-9,967.9	-2,077.6	865.9	685.0	180.95	4.785		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #705H - OWB - PWP2													
												Offset Site Error:	3.0 usft
												Offset Well Error:	3.0 usft
Survey Program:	0-Standard Keeper 104, 10212-MWD+IFR1+FDIR												
Reference	Offset												
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Between	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	(usft)	Factor	
						(°)			(usft)	(usft)			
20,700.0	10,722.0	20,561.6	10,685.0	94.9	87.7	86.49	-10,067.9	-2,076.9	866.0	683.4	182.59	4.743	
20,800.0	10,722.0	20,661.6	10,685.0	95.7	88.5	86.49	-10,167.9	-2,076.3	866.0	681.7	184.24	4.700	
20,863.7	10,722.0	20,725.1	10,685.0	96.2	89.1	86.49	-10,231.4	-2,075.9	866.0	680.7	185.28	4.674 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.52	0.5	59.9	59.9					
100.0	100.0	100.0	100.0	3.0	3.0	89.52	0.5	59.9	59.9	53.9	6.00	9.985		
200.0	200.0	200.0	200.0	3.0	3.0	89.52	0.5	59.9	59.9	53.9	6.04	9.921		
300.0	300.0	300.0	300.0	3.1	3.0	89.52	0.5	59.9	59.9	53.8	6.12	9.790		
400.0	400.0	400.0	400.0	3.2	3.0	89.52	0.5	59.9	59.9	53.7	6.24	9.600		
500.0	500.0	500.0	500.0	3.4	3.1	89.52	0.5	59.9	59.9	53.5	6.40	9.365		
600.0	600.0	600.0	600.0	3.6	3.1	89.52	0.5	59.9	59.9	53.4	6.59	9.098		
700.0	700.0	700.0	700.0	3.8	3.1	89.52	0.5	59.9	59.9	53.1	6.80	8.810		
800.0	800.0	800.0	800.0	4.0	3.2	89.52	0.5	59.9	59.9	52.9	7.04	8.511		
900.0	900.0	900.0	900.0	4.2	3.2	89.52	0.5	59.9	59.9	52.6	7.30	8.211		
1,000.0	1,000.0	1,000.0	1,000.0	4.5	3.2	89.52	0.5	59.9	59.9	52.4	7.58	7.913		
1,100.0	1,100.0	1,100.0	1,100.0	4.8	3.3	89.52	0.5	59.9	59.9	52.1	7.86	7.622		
1,200.0	1,200.0	1,200.0	1,200.0	5.1	3.4	89.52	0.5	59.9	59.9	51.8	8.17	7.341		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	3.4	89.52	0.5	59.9	59.9	51.5	8.48	7.071		
1,400.0	1,400.0	1,400.0	1,400.0	5.7	3.5	89.52	0.5	59.9	59.9	51.1	8.80	6.813		
1,500.0	1,500.0	1,500.0	1,500.0	6.0	3.5	89.52	0.5	59.9	59.9	50.8	9.13	6.568		
1,600.0	1,600.0	1,600.0	1,600.0	6.3	3.6	89.52	0.5	59.9	59.9	50.5	9.46	6.335		
1,700.0	1,700.0	1,700.0	1,700.0	6.6	3.7	89.52	0.5	59.9	59.9	50.1	9.80	6.115		
1,800.0	1,800.0	1,800.0	1,800.0	6.9	3.8	89.52	0.5	59.9	59.9	49.8	10.15	5.906		
1,900.0	1,900.0	1,900.0	1,900.0	7.2	3.9	89.52	0.5	59.9	59.9	49.4	10.50	5.708		
2,000.0	2,000.0	2,000.0	2,000.0	7.6	3.9	89.52	0.5	59.9	59.9	49.1	10.86	5.521		
2,100.0	2,100.0	2,100.0	2,100.0	7.9	4.0	89.52	0.5	59.9	59.9	48.7	11.22	5.344		
2,200.0	2,200.0	2,200.0	2,200.0	8.2	4.1	89.52	0.5	59.9	59.9	48.4	11.58	5.177		
2,300.0	2,300.0	2,300.0	2,300.0	8.6	4.2	89.52	0.5	59.9	59.9	48.0	11.95	5.018		
2,400.0	2,400.0	2,400.0	2,400.0	8.9	4.3	89.52	0.5	59.9	59.9	47.6	12.32	4.867		
2,500.0	2,500.0	2,500.0	2,500.0	9.2	4.4	89.52	0.5	59.9	59.9	47.3	12.69	4.724 CC, ES		
2,600.0	2,600.0	2,600.0	2,600.0	9.6	4.5	178.96	0.5	59.9	61.7	48.6	13.05	4.726		
2,700.0	2,699.8	2,699.8	2,699.8	9.9	4.6	179.04	0.5	59.9	66.9	53.5	13.41	4.989		
2,800.0	2,799.5	2,799.5	2,799.5	10.2	4.7	179.15	0.5	59.9	75.6	61.9	13.78	5.489		
2,864.6	2,863.6	2,863.6	2,863.6	10.4	4.8	179.22	0.5	59.9	83.1	69.1	14.01	5.930		
2,900.0	2,898.7	2,898.7	2,898.7	10.6	4.8	179.26	0.5	59.9	87.6	73.5	14.14	6.194		
3,000.0	2,997.9	2,997.9	2,997.9	10.9	4.9	179.36	0.5	59.9	100.3	85.8	14.51	6.912		
3,100.0	3,097.1	3,097.1	3,097.1	11.2	5.0	179.43	0.5	59.9	113.0	98.1	14.88	7.593		
3,200.0	3,196.3	3,196.3	3,196.3	11.6	5.1	179.49	0.5	59.9	125.7	110.4	15.25	8.239		
3,300.0	3,295.5	3,295.5	3,295.5	11.9	5.2	179.53	0.5	59.9	138.4	122.7	15.63	8.853		
3,400.0	3,394.7	3,394.7	3,394.7	12.2	5.3	179.57	0.5	59.9	151.1	135.0	16.01	9.436		
3,500.0	3,493.9	3,493.9	3,493.9	12.6	5.4	179.61	0.5	59.9	163.7	147.4	16.39	9.991		
3,600.0	3,593.1	3,593.1	3,593.1	12.9	5.5	179.63	0.5	59.9	176.4	159.7	16.77	10.520		
3,700.0	3,692.3	3,692.3	3,692.3	13.3	5.6	179.66	0.5	59.9	189.1	172.0	17.16	11.023		
3,800.0	3,791.5	3,791.5	3,791.5	13.6	5.8	179.68	0.5	59.9	201.8	184.3	17.55	11.503		
3,900.0	3,890.6	3,890.6	3,890.6	14.0	5.9	179.70	0.5	59.9	214.5	196.6	17.93	11.960		
4,000.0	3,989.8	3,989.8	3,989.8	14.3	6.0	179.72	0.5	59.9	227.2	208.9	18.33	12.397		
4,100.0	4,089.0	4,089.0	4,089.0	14.7	6.1	179.73	0.5	59.9	239.9	221.2	18.72	12.815		
4,200.0	4,188.2	4,188.2	4,188.2	15.0	6.2	179.74	0.5	59.9	252.6	233.5	19.11	13.214		
4,300.0	4,287.4	4,287.4	4,287.4	15.4	6.3	179.76	0.5	59.9	265.3	245.8	19.51	13.596		
4,400.0	4,386.6	4,386.6	4,386.6	15.7	6.4	179.77	0.5	59.9	278.0	258.1	19.91	13.962		
4,500.0	4,485.8	4,485.8	4,485.8	16.1	6.6	179.78	0.5	59.9	290.7	270.3	20.31	14.313		
4,600.0	4,585.0	4,585.0	4,585.0	16.4	6.7	179.79	0.5	59.9	303.3	282.6	20.71	14.649		
4,700.0	4,684.2	4,684.2	4,684.2	16.8	6.8	179.80	0.5	59.9	316.0	294.9	21.11	14.971		
4,800.0	4,783.4	4,783.4	4,783.4	17.2	6.9	179.80	0.5	59.9	328.7	307.2	21.51	15.281		
4,900.0	4,882.6	4,882.6	4,882.6	17.5	7.0	179.81	0.5	59.9	341.4	319.5	21.92	15.578		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
5,000.0	4,981.7	4,981.7	4,981.7	17.9	7.1	179.82	0.5	59.9	354.1	331.8	22.32	15.864		
5,100.0	5,080.9	5,080.9	5,080.9	18.2	7.3	179.82	0.5	59.9	366.8	344.1	22.73	16.139		
5,200.0	5,180.1	5,180.1	5,180.1	18.6	7.4	179.83	0.5	59.9	379.5	356.4	23.14	16.403		
5,300.0	5,279.3	5,279.3	5,279.3	19.0	7.5	179.84	0.5	59.9	392.2	368.6	23.54	16.658		
5,400.0	5,378.5	5,378.5	5,378.5	19.3	7.6	179.84	0.5	59.9	404.9	380.9	23.95	16.903		
5,500.0	5,477.7	5,477.7	5,477.7	19.7	7.7	179.85	0.5	59.9	417.6	393.2	24.36	17.140		
5,600.0	5,576.9	5,590.5	5,590.4	20.0	7.8	179.85	0.5	58.5	429.0	404.2	24.81	17.293		
5,700.0	5,676.1	5,707.9	5,707.7	20.4	7.9	179.86	0.5	52.4	436.6	411.3	25.26	17.281		
5,800.0	5,775.3	5,820.1	5,819.5	20.8	7.9	179.88	0.5	42.3	440.2	414.5	25.70	17.128		
5,900.0	5,874.5	5,920.1	5,918.9	21.1	8.0	179.89	0.5	32.2	442.8	416.7	26.12	16.953		
6,000.0	5,973.7	6,020.0	6,018.4	21.5	8.0	179.91	0.5	22.2	445.5	419.0	26.55	16.782		
6,100.0	6,072.9	6,120.0	6,117.8	21.8	8.1	179.92	0.5	12.2	448.2	421.2	26.98	16.614		
6,200.0	6,172.0	6,220.0	6,217.3	22.2	8.1	179.93	0.5	2.1	450.9	423.5	27.41	16.450		
6,300.0	6,271.2	6,319.9	6,316.8	22.6	8.2	179.95	0.5	-7.9	453.5	425.7	27.84	16.290		
6,400.0	6,370.4	6,419.9	6,416.2	22.9	8.2	179.96	0.5	-17.9	456.2	427.9	28.28	16.134		
6,500.0	6,469.6	6,519.9	6,515.7	23.3	8.3	179.97	0.5	-28.0	458.9	430.2	28.72	15.980		
6,600.0	6,568.8	6,619.8	6,615.1	23.7	8.3	179.99	0.5	-38.0	461.6	432.4	29.16	15.831		
6,700.0	6,668.0	6,719.8	6,714.6	24.0	8.4	180.00	0.5	-48.0	464.2	434.6	29.60	15.684		
6,800.0	6,767.2	6,819.7	6,814.1	24.4	8.4	-179.99	0.5	-58.1	466.9	436.9	30.04	15.541		
6,900.0	6,866.4	6,919.7	6,913.5	24.7	8.5	-179.98	0.5	-68.1	469.6	439.1	30.49	15.401		
7,000.0	6,965.6	7,019.7	7,013.0	25.1	8.5	-179.96	0.5	-78.1	472.2	441.3	30.94	15.264		
7,100.0	7,064.8	7,119.6	7,112.4	25.5	8.6	-179.95	0.5	-88.2	474.9	443.5	31.39	15.131		
7,200.0	7,164.0	7,219.6	7,211.9	25.8	8.7	-179.94	0.5	-98.2	477.6	445.7	31.84	15.000		
7,300.0	7,263.2	7,319.6	7,311.3	26.2	8.7	-179.93	0.5	-108.2	480.3	448.0	32.29	14.872		
7,400.0	7,362.3	7,419.5	7,410.8	26.6	8.8	-179.91	0.5	-118.3	482.9	450.2	32.75	14.747		
7,500.0	7,461.5	7,519.5	7,510.3	26.9	8.9	-179.90	0.5	-128.3	485.6	452.4	33.20	14.625		
7,600.0	7,560.7	7,619.5	7,609.7	27.3	9.0	-179.89	0.5	-138.3	488.3	454.6	33.66	14.506		
7,700.0	7,659.9	7,719.4	7,709.2	27.7	9.0	-179.88	0.5	-148.4	491.0	456.8	34.12	14.389		
7,800.0	7,759.1	7,819.4	7,808.6	28.0	9.1	-179.87	0.5	-158.4	493.6	459.0	34.58	14.275		
7,900.0	7,858.3	7,919.4	7,908.1	28.4	9.2	-179.86	0.5	-168.4	496.3	461.3	35.04	14.163		
8,000.0	7,957.5	8,019.3	8,007.6	28.8	9.3	-179.85	0.5	-178.5	499.0	463.5	35.50	14.054		
8,100.0	8,056.7	8,119.3	8,107.0	29.1	9.3	-179.84	0.5	-188.5	501.6	465.7	35.97	13.947		
8,200.0	8,155.9	8,219.2	8,206.5	29.5	9.4	-179.82	0.5	-198.5	504.3	467.9	36.43	13.842		
8,300.0	8,255.1	8,319.2	8,305.9	29.9	9.5	-179.81	0.5	-208.6	507.0	470.1	36.90	13.740		
8,400.0	8,354.3	8,419.2	8,405.4	30.2	9.6	-179.80	0.5	-218.6	509.7	472.3	37.37	13.639		
8,500.0	8,453.4	8,519.1	8,504.9	30.6	9.7	-179.79	0.5	-228.6	512.3	474.5	37.83	13.541		
8,600.0	8,552.6	8,619.1	8,604.3	31.0	9.8	-179.78	0.5	-238.7	515.0	476.7	38.30	13.445		
8,700.0	8,651.8	8,719.1	8,703.8	31.3	9.9	-179.77	0.5	-248.7	517.7	478.9	38.77	13.351		
8,800.0	8,751.0	8,819.0	8,803.2	31.7	9.9	-179.76	0.5	-258.7	520.4	481.1	39.24	13.259		
8,900.0	8,850.2	8,919.0	8,902.7	32.1	10.0	-179.75	0.5	-268.8	523.0	483.3	39.72	13.169		
9,000.0	8,949.4	9,019.0	9,002.2	32.4	10.1	-179.74	0.5	-278.8	525.7	485.5	40.19	13.081		
9,100.0	9,048.6	9,118.9	9,101.6	32.8	10.2	-179.73	0.5	-288.8	528.4	487.7	40.66	12.995		
9,200.0	9,147.8	9,218.9	9,201.1	33.2	10.3	-179.72	0.5	-298.9	531.0	489.9	41.13	12.910		
9,300.0	9,247.0	9,318.9	9,300.5	33.5	10.4	-179.71	0.5	-308.9	533.7	492.1	41.61	12.827		
9,400.0	9,346.2	9,418.8	9,400.0	33.9	10.5	-179.70	0.5	-318.9	536.4	494.3	42.08	12.746		
9,500.0	9,445.4	9,518.8	9,499.5	34.3	10.6	-179.69	0.5	-329.0	539.1	496.5	42.56	12.666		
9,600.0	9,544.6	9,618.7	9,598.9	34.6	10.7	-179.68	0.5	-339.0	541.7	498.7	43.04	12.588		
9,700.0	9,643.7	9,718.7	9,698.4	35.0	10.8	-179.67	0.5	-349.0	544.4	500.9	43.51	12.512		
9,800.0	9,742.9	9,818.7	9,797.8	35.4	10.9	-179.66	0.5	-359.0	547.1	503.1	43.99	12.437		
9,900.0	9,842.1	9,918.6	9,897.3	35.7	11.0	-179.66	0.5	-369.1	549.8	505.3	44.47	12.363		
10,000.0	9,941.3	10,018.6	9,996.8	36.1	11.1	-179.65	0.5	-379.1	552.4	507.5	44.95	12.291		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.0	10,040.5	10,118.6	10,096.2	36.5	11.2	-179.64	0.5	-389.1	555.1	509.7	45.43	12.220		
10,200.0	10,139.7	10,218.5	10,195.7	36.8	11.3	-179.63	0.5	-399.2	557.8	511.9	45.90	12.152		
10,300.0	10,238.9	10,317.3	10,293.9	37.2	11.4	-179.44	-1.2	-409.1	560.5	514.2	46.31	12.103		
10,325.6	10,264.3	10,341.9	10,318.2	37.3	11.4	-179.16	-3.9	-411.5	561.3	514.8	46.43	12.089		
10,350.0	10,288.5	10,365.1	10,341.0	37.4	11.4	-159.57	-7.7	-413.8	562.2	515.7	46.54	12.079		
10,375.0	10,313.1	10,388.7	10,364.0	37.5	11.4	-145.66	-12.6	-416.1	563.5	516.9	46.66	12.078		
10,400.0	10,337.6	10,412.1	10,386.5	37.6	11.4	-136.32	-18.6	-418.3	565.3	518.5	46.78	12.084		
10,425.0	10,361.8	10,435.4	10,408.6	37.7	11.4	-129.82	-25.6	-420.5	567.4	520.5	46.90	12.099		
10,450.0	10,385.7	10,458.5	10,430.1	37.8	11.4	-125.04	-33.7	-422.6	569.9	522.8	47.01	12.121		
10,475.0	10,409.3	10,481.4	10,451.1	37.8	11.4	-121.34	-42.7	-424.7	572.7	525.6	47.13	12.152		
10,500.0	10,432.4	10,504.2	10,471.5	37.9	11.5	-118.36	-52.6	-426.7	575.9	528.6	47.24	12.190		
10,525.0	10,455.0	10,526.8	10,491.2	38.0	11.5	-115.86	-63.5	-428.6	579.4	532.0	47.35	12.235		
10,550.0	10,477.0	10,550.0	10,510.9	38.1	11.5	-113.70	-75.6	-430.5	583.2	535.8	47.47	12.287		
10,575.0	10,498.4	10,571.5	10,528.6	38.2	11.5	-111.80	-87.6	-432.2	587.4	539.8	47.57	12.347		
10,600.0	10,519.1	10,593.6	10,546.3	38.3	11.5	-110.08	-100.8	-433.9	591.9	544.2	47.68	12.413		
10,625.0	10,539.1	10,615.6	10,563.2	38.3	11.5	-108.51	-114.8	-435.5	596.6	548.8	47.79	12.485		
10,650.0	10,558.3	10,637.4	10,579.4	38.4	11.6	-107.04	-129.4	-437.1	601.6	553.7	47.89	12.563		
10,675.0	10,576.6	10,659.2	10,594.8	38.5	11.6	-105.67	-144.6	-438.5	606.9	558.9	47.99	12.646		
10,700.0	10,594.0	10,680.8	10,609.4	38.6	11.6	-104.37	-160.5	-439.9	612.4	564.3	48.09	12.735		
10,725.0	10,610.5	10,702.2	10,623.2	38.6	11.6	-103.13	-176.9	-441.2	618.1	570.0	48.18	12.829		
10,750.0	10,626.0	10,725.0	10,637.0	38.7	11.6	-101.93	-194.9	-442.4	624.1	575.8	48.29	12.925		
10,775.0	10,640.5	10,744.9	10,648.4	38.8	11.7	-100.79	-211.2	-443.5	630.2	581.8	48.37	13.028		
10,800.0	10,653.8	10,766.1	10,659.8	38.8	11.7	-99.69	-229.1	-444.5	636.5	588.0	48.46	13.134		
10,825.0	10,666.1	10,787.3	10,670.3	38.9	11.7	-98.63	-247.4	-445.5	642.9	594.4	48.55	13.243		
10,850.0	10,677.2	10,808.3	10,680.0	39.0	11.7	-97.61	-266.1	-446.3	649.5	600.8	48.63	13.354		
10,875.0	10,687.2	10,829.4	10,688.8	39.0	11.8	-96.62	-285.1	-447.1	656.1	607.4	48.72	13.468		
10,900.0	10,695.9	10,850.0	10,696.7	39.1	11.8	-95.66	-304.2	-447.8	662.9	614.1	48.80	13.585		
10,925.0	10,703.4	10,871.3	10,703.9	39.1	11.8	-94.74	-324.2	-448.4	669.7	620.8	48.88	13.702		
10,950.0	10,709.7	10,892.2	10,710.1	39.2	11.9	-93.86	-344.2	-448.9	676.6	627.7	48.96	13.820		
10,975.0	10,714.7	10,913.1	10,715.5	39.2	11.9	-93.01	-364.4	-449.3	683.5	634.5	49.03	13.940		
11,000.0	10,718.4	10,934.1	10,720.0	39.3	11.9	-92.19	-384.9	-449.6	690.5	641.4	49.11	14.060		
11,025.0	10,720.8	10,955.0	10,723.6	39.3	11.9	-91.42	-405.5	-449.8	697.4	648.2	49.18	14.180		
11,050.0	10,722.0	10,975.0	10,726.1	39.4	12.0	-90.68	-425.3	-450.0	704.4	655.1	49.25	14.302		
11,059.4	10,722.0	10,983.9	10,727.0	39.4	12.0	-90.42	-434.1	-450.0	706.9	657.7	49.28	14.344		
11,100.0	10,722.0	11,018.2	10,728.9	39.4	12.0	-90.57	-468.4	-450.0	718.0	668.6	49.41	14.533		
11,200.0	10,722.0	11,113.7	10,729.0	39.6	12.2	-90.55	-563.9	-449.4	743.4	693.5	49.86	14.908		
11,300.0	10,722.0	11,211.2	10,729.0	39.8	12.4	-90.53	-661.5	-448.7	765.4	715.0	50.40	15.186		
11,400.0	10,722.0	11,309.5	10,729.0	40.0	12.6	-90.51	-759.7	-448.1	784.0	733.0	51.01	15.370		
11,500.0	10,722.0	11,408.3	10,729.0	40.2	13.0	-90.50	-858.5	-447.5	799.1	747.4	51.67	15.465		
11,600.0	10,722.0	11,507.7	10,729.0	40.4	13.4	-90.49	-957.9	-446.8	810.8	758.4	52.39	15.475		
11,700.0	10,722.0	11,607.3	10,729.0	40.6	13.8	-90.48	-1,057.5	-446.2	819.0	765.8	53.16	15.405		
11,800.0	10,722.0	11,707.2	10,729.0	40.9	14.4	-90.48	-1,157.4	-445.6	823.7	769.7	53.98	15.259		
11,885.5	10,722.0	11,792.7	10,729.0	41.1	14.9	-90.48	-1,242.9	-445.0	824.9	770.2	54.71	15.078		
11,900.0	10,722.0	11,807.2	10,729.0	41.1	14.9	-90.48	-1,257.4	-444.9	824.9	770.1	54.84	15.043		
12,000.0	10,722.0	11,907.2	10,729.0	41.3	15.5	-90.48	-1,357.4	-444.3	824.9	769.2	55.74	14.801		
12,100.0	10,722.0	12,007.2	10,729.0	41.6	16.2	-90.48	-1,457.4	-443.6	824.9	768.3	56.67	14.557		
12,200.0	10,722.0	12,107.2	10,729.0	41.9	16.9	-90.48	-1,557.4	-443.0	824.9	767.3	57.63	14.313		
12,300.0	10,722.0	12,207.2	10,729.0	42.2	17.5	-90.48	-1,657.4	-442.4	824.9	766.3	58.63	14.069		
12,400.0	10,722.0	12,307.2	10,729.0	42.5	18.2	-90.48	-1,757.4	-441.7	824.9	765.2	59.66	13.827		
12,500.0	10,722.0	12,407.2	10,729.0	42.8	19.0	-90.48	-1,857.4	-441.1	824.9	764.2	60.71	13.588		
12,600.0	10,722.0	12,507.2	10,729.0	43.1	19.7	-90.48	-1,957.4	-440.4	824.9	763.1	61.79	13.350		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
12,700.0	10,722.0	12,607.2	10,729.0	43.4	20.4	-90.48	-90.48	-2,057.4	-439.8	824.9	762.0	62.89	13.116	
12,800.0	10,722.0	12,707.2	10,729.0	43.8	21.2	-90.48	-90.48	-2,157.4	-439.2	824.9	760.8	64.01	12.886	
12,900.0	10,722.0	12,807.2	10,729.0	44.2	22.0	-90.48	-90.48	-2,257.4	-438.5	824.8	759.7	65.16	12.659	
13,000.0	10,722.0	12,907.2	10,729.0	44.6	22.7	-90.48	-90.48	-2,357.4	-437.9	824.8	758.5	66.32	12.437	
13,100.0	10,722.0	13,007.2	10,729.0	44.9	23.5	-90.48	-90.48	-2,457.4	-437.2	824.8	757.3	67.51	12.218	
13,200.0	10,722.0	13,107.2	10,729.0	45.4	24.3	-90.48	-90.48	-2,557.4	-436.6	824.8	756.1	68.71	12.004	
13,300.0	10,722.0	13,207.2	10,729.0	45.8	25.1	-90.48	-90.48	-2,657.3	-436.0	824.8	754.9	69.93	11.795	
13,400.0	10,722.0	13,307.2	10,729.0	46.2	25.9	-90.48	-90.48	-2,757.3	-435.3	824.8	753.6	71.17	11.589	
13,500.0	10,722.0	13,407.2	10,729.0	46.6	26.7	-90.48	-90.48	-2,857.3	-434.7	824.8	752.4	72.42	11.389	
13,600.0	10,722.0	13,507.2	10,729.0	47.1	27.5	-90.48	-90.48	-2,957.3	-434.0	824.8	751.1	73.69	11.193	
13,700.0	10,722.0	13,607.2	10,729.0	47.6	28.3	-90.48	-90.48	-3,057.3	-433.4	824.8	749.8	74.97	11.001	
13,800.0	10,722.0	13,707.2	10,729.0	48.0	29.1	-90.48	-90.48	-3,157.3	-432.8	824.8	748.5	76.27	10.814	
13,900.0	10,722.0	13,807.2	10,729.0	48.5	29.9	-90.48	-90.48	-3,257.3	-432.1	824.7	747.2	77.58	10.631	
14,000.0	10,722.0	13,907.2	10,729.0	49.0	30.7	-90.48	-90.48	-3,357.3	-431.5	824.7	745.8	78.90	10.453	
14,100.0	10,722.0	14,007.2	10,729.0	49.5	31.6	-90.48	-90.48	-3,457.3	-430.8	824.7	744.5	80.24	10.279	
14,200.0	10,722.0	14,107.2	10,729.0	50.0	32.4	-90.48	-90.48	-3,557.3	-430.2	824.7	743.1	81.58	10.109	
14,300.0	10,722.0	14,207.2	10,729.0	50.6	33.2	-90.48	-90.48	-3,657.3	-429.6	824.7	741.8	82.94	9.943	
14,400.0	10,722.0	14,307.2	10,729.0	51.1	34.0	-90.48	-90.48	-3,757.3	-428.9	824.7	740.4	84.31	9.782	
14,500.0	10,722.0	14,407.2	10,729.0	51.6	34.8	-90.48	-90.48	-3,857.3	-428.3	824.7	739.0	85.69	9.624	
14,600.0	10,722.0	14,507.2	10,729.0	52.2	35.7	-90.48	-90.48	-3,957.3	-427.6	824.7	737.6	87.08	9.470	
14,700.0	10,722.0	14,607.2	10,729.0	52.8	36.5	-90.48	-90.48	-4,057.3	-427.0	824.7	736.2	88.48	9.320	
14,800.0	10,722.0	14,707.2	10,729.0	53.3	37.3	-90.48	-90.48	-4,157.3	-426.4	824.6	734.8	89.89	9.174	
14,900.0	10,722.0	14,807.2	10,729.0	53.9	38.2	-90.48	-90.48	-4,257.3	-425.7	824.6	733.3	91.30	9.032	
15,000.0	10,722.0	14,907.2	10,729.0	54.5	39.0	-90.48	-90.48	-4,357.3	-425.1	824.6	731.9	92.73	8.893	
15,100.0	10,722.0	15,007.2	10,729.0	55.1	39.8	-90.48	-90.48	-4,457.3	-424.4	824.6	730.5	94.17	8.757	
15,200.0	10,722.0	15,107.2	10,729.0	55.7	40.7	-90.48	-90.48	-4,557.3	-423.8	824.6	729.0	95.61	8.625	
15,300.0	10,722.0	15,207.2	10,729.0	56.3	41.5	-90.48	-90.48	-4,657.3	-423.2	824.6	727.5	97.06	8.496	
15,400.0	10,722.0	15,307.2	10,729.0	56.9	42.4	-90.48	-90.48	-4,757.3	-422.5	824.6	726.1	98.52	8.370	
15,500.0	10,722.0	15,407.2	10,729.0	57.5	43.2	-90.48	-90.48	-4,857.3	-421.9	824.6	724.6	99.98	8.247	
15,600.0	10,722.0	15,507.2	10,729.0	58.1	44.0	-90.48	-90.48	-4,957.3	-421.2	824.6	723.1	101.45	8.128	
15,700.0	10,722.0	15,607.2	10,729.0	58.8	44.9	-90.48	-90.48	-5,057.3	-420.6	824.6	721.6	102.93	8.011	
15,800.0	10,722.0	15,707.2	10,729.0	59.4	45.7	-90.48	-90.48	-5,157.3	-420.0	824.5	720.1	104.42	7.897	
15,900.0	10,722.0	15,807.2	10,729.0	60.0	46.6	-90.48	-90.48	-5,257.3	-419.3	824.5	718.6	105.91	7.785	
16,000.0	10,722.0	15,907.2	10,729.0	60.7	47.4	-90.48	-90.48	-5,357.3	-418.7	824.5	717.1	107.41	7.677	
16,100.0	10,722.0	16,007.2	10,729.0	61.3	48.2	-90.48	-90.48	-5,457.3	-418.0	824.5	715.6	108.91	7.571	
16,200.0	10,722.0	16,107.2	10,729.0	62.0	49.1	-90.48	-90.48	-5,557.3	-417.4	824.5	714.1	110.42	7.467	
16,300.0	10,722.0	16,207.2	10,729.0	62.6	49.9	-90.48	-90.48	-5,657.3	-416.8	824.5	712.6	111.93	7.366	
16,400.0	10,722.0	16,307.2	10,729.0	63.3	50.8	-90.48	-90.48	-5,757.3	-416.1	824.5	711.0	113.45	7.267	
16,500.0	10,722.0	16,407.2	10,729.0	64.0	51.6	-90.48	-90.48	-5,857.3	-415.5	824.5	709.5	114.98	7.171	
16,600.0	10,722.0	16,507.2	10,729.0	64.7	52.5	-90.48	-90.48	-5,957.3	-414.8	824.5	708.0	116.50	7.077	
16,700.0	10,722.0	16,607.2	10,729.0	65.3	53.3	-90.48	-90.48	-6,057.3	-414.2	824.5	706.4	118.04	6.985	
16,800.0	10,722.0	16,707.2	10,729.0	66.0	54.2	-90.48	-90.48	-6,157.3	-413.6	824.4	704.9	119.58	6.895	
16,900.0	10,722.0	16,807.2	10,729.0	66.7	55.0	-90.48	-90.48	-6,257.3	-412.9	824.4	703.3	121.12	6.807	
17,000.0	10,722.0	16,907.2	10,729.0	67.4	55.9	-90.48	-90.48	-6,357.3	-412.3	824.4	701.8	122.67	6.721	
17,100.0	10,722.0	17,007.2	10,729.0	68.1	56.7	-90.48	-90.48	-6,457.3	-411.6	824.4	700.2	124.22	6.637	
17,200.0	10,722.0	17,107.2	10,729.0	68.8	57.6	-90.48	-90.48	-6,557.3	-411.0	824.4	698.6	125.77	6.555	
17,300.0	10,722.0	17,207.2	10,729.0	69.5	58.4	-90.48	-90.48	-6,657.3	-410.4	824.4	697.1	127.33	6.474	
17,400.0	10,722.0	17,307.2	10,729.0	70.2	59.3	-90.48	-90.48	-6,757.3	-409.7	824.4	695.5	128.90	6.396	
17,500.0	10,722.0	17,407.2	10,729.0	70.9	60.1	-90.48	-90.48	-6,857.3	-409.1	824.4	693.9	130.46	6.319	
17,600.0	10,722.0	17,507.2	10,729.0	71.6	61.0	-90.48	-90.48	-6,957.3	-408.4	824.4	692.3	132.03	6.244	
17,700.0	10,722.0	17,607.2	10,729.0	72.3	61.8	-90.48	-90.48	-7,057.3	-407.8	824.4	690.7	133.61	6.170	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
17,800.0	10,722.0	17,707.2	10,729.0	73.1	62.7	-90.48	-7,157.3	-407.2	824.3	689.2	135.18	6.098	
17,900.0	10,722.0	17,807.2	10,729.0	73.8	63.5	-90.48	-7,257.3	-406.5	824.3	687.6	136.76	6.027	
18,000.0	10,722.0	17,907.2	10,729.0	74.5	64.4	-90.48	-7,357.3	-405.9	824.3	686.0	138.35	5.958	
18,100.0	10,722.0	18,007.2	10,729.0	75.2	65.2	-90.48	-7,457.3	-405.2	824.3	684.4	139.93	5.891	
18,200.0	10,722.0	18,107.2	10,729.0	76.0	66.1	-90.48	-7,557.2	-404.6	824.3	682.8	141.52	5.825	
18,300.0	10,722.0	18,207.2	10,729.0	76.7	66.9	-90.48	-7,657.2	-404.0	824.3	681.2	143.11	5.760	
18,400.0	10,722.0	18,307.2	10,729.0	77.4	67.8	-90.49	-7,757.2	-403.3	824.3	679.6	144.71	5.696	
18,500.0	10,722.0	18,407.2	10,729.0	78.2	68.6	-90.49	-7,857.2	-402.7	824.3	678.0	146.30	5.634	
18,600.0	10,722.0	18,507.2	10,729.0	78.9	69.5	-90.49	-7,957.2	-402.0	824.3	676.4	147.90	5.573	
18,700.0	10,722.0	18,607.2	10,729.0	79.7	70.3	-90.49	-8,057.2	-401.4	824.2	674.7	149.51	5.513	
18,800.0	10,722.0	18,707.2	10,729.0	80.4	71.2	-90.49	-8,157.2	-400.8	824.2	673.1	151.11	5.454	
18,900.0	10,722.0	18,807.2	10,729.0	81.2	72.0	-90.49	-8,257.2	-400.1	824.2	671.5	152.72	5.397	
19,000.0	10,722.0	18,907.2	10,729.0	81.9	72.9	-90.49	-8,357.2	-399.5	824.2	669.9	154.33	5.341	
19,100.0	10,722.0	19,007.2	10,729.0	82.7	73.7	-90.49	-8,457.2	-398.8	824.2	668.3	155.94	5.285	
19,200.0	10,722.0	19,107.2	10,729.0	83.4	74.6	-90.49	-8,557.2	-398.2	824.2	666.6	157.55	5.231	
19,300.0	10,722.0	19,207.2	10,729.0	84.2	75.5	-90.49	-8,657.2	-397.6	824.2	665.0	159.17	5.178	
19,400.0	10,722.0	19,307.2	10,729.0	84.9	76.3	-90.49	-8,757.2	-396.9	824.2	663.4	160.79	5.126	
19,500.0	10,722.0	19,407.2	10,729.0	85.7	77.2	-90.49	-8,857.2	-396.3	824.2	661.8	162.41	5.075	
19,600.0	10,722.0	19,507.2	10,729.0	86.4	78.0	-90.49	-8,957.2	-395.6	824.2	660.1	164.03	5.024	
19,700.0	10,722.0	19,607.2	10,729.0	87.2	78.9	-90.49	-9,057.2	-395.0	824.1	658.5	165.65	4.975	
19,800.0	10,722.0	19,707.2	10,729.0	88.0	79.7	-90.49	-9,157.2	-394.4	824.1	656.9	167.28	4.927	
19,900.0	10,722.0	19,807.2	10,729.0	88.7	80.6	-90.49	-9,257.2	-393.7	824.1	655.2	168.91	4.879	
20,000.0	10,722.0	19,907.2	10,729.0	89.5	81.4	-90.49	-9,357.2	-393.1	824.1	653.6	170.54	4.832	
20,100.0	10,722.0	20,007.2	10,729.0	90.3	82.3	-90.49	-9,457.2	-392.4	824.1	651.9	172.17	4.787	
20,200.0	10,722.0	20,107.2	10,729.0	91.1	83.2	-90.49	-9,557.2	-391.8	824.1	650.3	173.80	4.742	
20,300.0	10,722.0	20,207.2	10,729.0	91.8	84.0	-90.49	-9,657.2	-391.2	824.1	648.6	175.43	4.697	
20,400.0	10,722.0	20,307.2	10,729.0	92.6	84.9	-90.49	-9,757.2	-390.5	824.1	647.0	177.07	4.654	
20,500.0	10,722.0	20,407.2	10,729.0	93.4	85.7	-90.49	-9,857.2	-389.9	824.1	645.4	178.71	4.611	
20,600.0	10,722.0	20,507.2	10,729.0	94.2	86.6	-90.49	-9,957.2	-389.2	824.1	643.7	180.35	4.569	
20,700.0	10,722.0	20,607.2	10,729.0	94.9	87.4	-90.49	-10,057.2	-388.6	824.0	642.1	181.99	4.528	
20,800.0	10,722.0	20,707.2	10,729.0	95.7	88.3	-90.49	-10,157.2	-388.0	824.0	640.4	183.61	4.488	
20,863.7	10,722.0	20,770.9	10,729.0	96.2	88.7	-90.49	-10,220.9	-387.6	824.0	639.5	184.50	4.466 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	75.56	7.7	30.0	31.0					
100.0	100.0	100.0	100.0	3.0	3.0	75.56	7.7	30.0	31.0	25.0	6.00	5.162		
200.0	200.0	200.0	200.0	3.0	3.0	75.56	7.7	30.0	31.0	24.9	6.04	5.129		
300.0	300.0	300.0	300.0	3.1	3.0	75.56	7.7	30.0	31.0	24.9	6.12	5.061		
400.0	400.0	400.0	400.0	3.2	3.0	75.56	7.7	30.0	31.0	24.7	6.25	4.962		
500.0	500.0	500.0	500.0	3.4	3.1	75.56	7.7	30.0	31.0	24.6	6.40	4.840		
600.0	600.0	600.0	600.0	3.6	3.1	75.56	7.7	30.0	31.0	24.4	6.59	4.701		
700.0	700.0	700.0	700.0	3.8	3.1	75.56	7.7	30.0	31.0	24.2	6.81	4.551		
800.0	800.0	800.0	800.0	4.0	3.2	75.56	7.7	30.0	31.0	23.9	7.05	4.396		
900.0	900.0	900.0	900.0	4.2	3.2	75.56	7.7	30.0	31.0	23.7	7.31	4.240		
1,000.0	1,000.0	1,000.0	1,000.0	4.5	3.2	75.56	7.7	30.0	31.0	23.4	7.59	4.085		
1,100.0	1,100.0	1,100.0	1,100.0	4.8	3.3	75.56	7.7	30.0	31.0	23.1	7.88	3.934		
1,200.0	1,200.0	1,200.0	1,200.0	5.1	3.4	75.56	7.7	30.0	31.0	22.8	8.18	3.788		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	3.4	75.56	7.7	30.0	31.0	22.5	8.50	3.647		
1,400.0	1,400.0	1,400.0	1,400.0	5.7	3.5	75.56	7.7	30.0	31.0	22.2	8.82	3.514		
1,500.0	1,500.0	1,500.0	1,500.0	6.0	3.5	75.56	7.7	30.0	31.0	21.8	9.15	3.386		
1,600.0	1,600.0	1,600.0	1,600.0	6.3	3.6	75.56	7.7	30.0	31.0	21.5	9.49	3.265		
1,700.0	1,700.0	1,700.0	1,700.0	6.6	3.7	75.56	7.7	30.0	31.0	21.2	9.83	3.151		
1,800.0	1,800.0	1,800.0	1,800.0	6.9	3.8	75.56	7.7	30.0	31.0	20.8	10.19	3.043		
1,900.0	1,900.0	1,900.0	1,900.0	7.2	3.9	75.56	7.7	30.0	31.0	20.4	10.54	2.940		
2,000.0	2,000.0	2,000.0	2,000.0	7.6	3.9	75.56	7.7	30.0	31.0	20.1	10.90	2.843		
2,100.0	2,100.0	2,100.0	2,100.0	7.9	4.0	75.56	7.7	30.0	31.0	19.7	11.26	2.751		
2,200.0	2,200.0	2,200.0	2,200.0	8.2	4.1	75.56	7.7	30.0	31.0	19.4	11.63	2.664		
2,300.0	2,300.0	2,300.0	2,300.0	8.6	4.2	75.56	7.7	30.0	31.0	19.0	12.00	2.582		
2,400.0	2,400.0	2,400.0	2,400.0	8.9	4.3	75.56	7.7	30.0	31.0	18.6	12.38	2.504		
2,500.0	2,500.0	2,500.0	2,500.0	9.2	4.4	75.56	7.7	30.0	31.0	18.2	12.75	2.430 CC		
2,600.0	2,600.0	2,601.0	2,601.0	9.6	4.5	164.51	8.0	28.3	31.1	17.9	13.11	2.369		
2,700.0	2,699.8	2,702.0	2,701.8	9.9	4.5	163.15	8.8	23.0	31.3	17.8	13.45	2.325		
2,800.0	2,799.5	2,803.0	2,802.4	10.2	4.6	160.93	10.2	14.2	31.7	17.9	13.80	2.296		
2,864.6	2,863.6	2,868.2	2,867.2	10.4	4.6	159.07	11.4	6.7	32.0	18.0	14.02	2.285		
2,900.0	2,898.7	2,903.9	2,902.6	10.6	4.6	157.77	12.1	1.9	32.1	18.0	14.15	2.269		
3,000.0	2,997.9	3,003.9	3,001.6	10.9	4.6	153.69	14.3	-11.8	31.9	17.4	14.55	2.195		
3,054.6	3,052.1	3,058.5	3,055.6	11.1	4.7	151.45	15.4	-19.3	31.9	17.1	14.77	2.160		
3,100.0	3,097.1	3,103.9	3,100.6	11.2	4.7	149.59	16.4	-25.6	31.9	17.0	14.95	2.135		
3,200.0	3,196.3	3,203.8	3,199.6	11.6	4.8	145.51	18.6	-39.3	32.1	16.7	15.37	2.087		
3,300.0	3,295.5	3,303.8	3,298.6	11.9	4.8	141.48	20.7	-53.1	32.4	16.6	15.79	2.051 ES		
3,400.0	3,394.7	3,403.8	3,397.6	12.2	4.9	137.55	22.9	-66.8	32.9	16.6	16.22	2.026		
3,500.0	3,493.9	3,503.8	3,496.6	12.6	5.0	133.75	25.0	-80.6	33.5	16.8	16.66	2.010		
3,600.0	3,593.1	3,603.7	3,595.6	12.9	5.0	130.11	27.2	-94.3	34.3	17.2	17.10	2.003 SF		
3,700.0	3,692.3	3,703.7	3,694.6	13.3	5.1	126.64	29.3	-108.0	35.2	17.6	17.55	2.003		
3,800.0	3,791.5	3,803.7	3,793.6	13.6	5.2	123.35	31.5	-121.8	36.2	18.2	18.00	2.010		
3,900.0	3,890.6	3,903.7	3,892.6	14.0	5.3	120.25	33.6	-135.5	37.3	18.9	18.45	2.022		
4,000.0	3,989.8	4,003.6	3,991.6	14.3	5.3	117.34	35.8	-149.3	38.5	19.6	18.91	2.038		
4,100.0	4,089.0	4,103.6	4,090.6	14.7	5.4	114.62	37.9	-163.0	39.9	20.5	19.36	2.059		
4,200.0	4,188.2	4,203.6	4,189.6	15.0	5.5	112.08	40.1	-176.8	41.3	21.5	19.82	2.083		
4,300.0	4,287.4	4,303.6	4,288.6	15.4	5.6	109.71	42.2	-190.5	42.8	22.5	20.28	2.109		
4,400.0	4,386.6	4,403.5	4,387.6	15.7	5.7	107.50	44.4	-204.3	44.3	23.6	20.74	2.137		
4,500.0	4,485.8	4,503.5	4,486.6	16.1	5.8	105.45	46.5	-218.0	45.9	24.7	21.20	2.166		
4,600.0	4,585.0	4,603.5	4,585.6	16.4	5.9	103.54	48.7	-231.8	47.6	25.9	21.67	2.197		
4,700.0	4,684.2	4,703.4	4,684.6	16.8	6.0	101.76	50.8	-245.5	49.3	27.2	22.13	2.229		
4,800.0	4,783.4	4,803.4	4,783.6	17.2	6.1	100.10	53.0	-259.3	51.1	28.5	22.60	2.261		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #802H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
4,900.0	4,882.6	4,903.4	4,882.6	17.5	6.2	98.55	55.1	-273.0	52.9	29.8	23.07	2.293	
5,000.0	4,981.7	5,003.4	4,981.6	17.9	6.3	97.11	57.3	-286.8	54.7	31.2	23.54	2.326	
5,100.0	5,080.9	5,103.3	5,080.6	18.2	6.4	95.76	59.4	-300.5	56.6	32.6	24.01	2.358	
5,200.0	5,180.1	5,203.3	5,179.6	18.6	6.5	94.50	61.6	-314.2	58.5	34.0	24.48	2.391	
5,300.0	5,279.3	5,303.3	5,278.6	19.0	6.6	93.32	63.7	-328.0	60.4	35.5	24.95	2.423	
5,400.0	5,378.5	5,403.3	5,377.6	19.3	6.7	92.21	65.9	-341.7	62.4	37.0	25.42	2.454	
5,500.0	5,477.7	5,503.2	5,476.6	19.7	6.8	91.17	68.0	-355.5	64.4	38.5	25.90	2.486	
5,600.0	5,576.9	5,603.2	5,575.6	20.0	6.9	90.19	70.2	-369.2	66.4	40.0	26.38	2.516	
5,700.0	5,676.1	5,703.2	5,674.6	20.4	7.0	89.27	72.3	-383.0	68.4	41.5	26.85	2.547	
5,800.0	5,775.3	5,803.2	5,773.6	20.8	7.1	88.40	74.5	-396.7	70.4	43.1	27.33	2.576	
5,900.0	5,874.5	5,903.1	5,872.6	21.1	7.2	87.58	76.6	-410.5	72.5	44.6	27.81	2.605	
6,000.0	5,973.7	6,003.1	5,971.6	21.5	7.3	86.81	78.8	-424.2	74.5	46.2	28.30	2.634	
6,100.0	6,072.9	6,103.1	6,070.6	21.8	7.4	86.07	80.9	-438.0	76.6	47.8	28.78	2.662	
6,200.0	6,172.0	6,203.1	6,169.6	22.2	7.6	85.38	83.1	-451.7	78.7	49.4	29.26	2.689	
6,300.0	6,271.2	6,303.0	6,268.6	22.6	7.7	84.72	85.2	-465.5	80.8	51.0	29.75	2.715	
6,400.0	6,370.4	6,403.0	6,367.6	22.9	7.8	84.10	87.4	-479.2	82.9	52.6	30.24	2.741	
6,500.0	6,469.6	6,503.0	6,466.6	23.3	7.9	83.50	89.5	-493.0	85.0	54.3	30.72	2.766	
6,600.0	6,568.8	6,603.0	6,565.6	23.7	8.0	82.94	91.7	-506.7	87.1	55.9	31.21	2.791	
6,700.0	6,668.0	6,702.9	6,664.6	24.0	8.1	82.40	93.8	-520.4	89.3	57.5	31.71	2.815	
6,800.0	6,767.2	6,802.9	6,763.6	24.4	8.3	81.89	96.0	-534.2	91.4	59.2	32.20	2.838	
6,900.0	6,866.4	6,902.9	6,862.6	24.7	8.4	81.40	98.1	-547.9	93.5	60.8	32.69	2.861	
7,000.0	6,965.6	7,002.8	6,961.6	25.1	8.5	80.93	100.3	-561.7	95.7	62.5	33.18	2.884	
7,100.0	7,064.8	7,102.8	7,060.6	25.5	8.6	80.49	102.4	-575.4	97.8	64.2	33.68	2.905	
7,200.0	7,164.0	7,202.8	7,159.6	25.8	8.8	80.06	104.6	-589.2	100.0	65.8	34.18	2.926	
7,300.0	7,263.2	7,302.8	7,258.6	26.2	8.9	79.65	106.7	-602.9	102.2	67.5	34.67	2.947	
7,400.0	7,362.3	7,402.7	7,357.6	26.6	9.0	79.26	108.9	-616.7	104.4	69.2	35.17	2.967	
7,500.0	7,461.5	7,502.7	7,456.6	26.9	9.1	78.88	111.0	-630.4	106.5	70.9	35.67	2.986	
7,600.0	7,560.7	7,602.7	7,555.6	27.3	9.3	78.52	113.2	-644.2	108.7	72.5	36.18	3.005	
7,700.0	7,659.9	7,702.7	7,654.6	27.7	9.4	78.18	115.3	-657.9	110.9	74.2	36.68	3.024	
7,800.0	7,759.1	7,802.6	7,753.6	28.0	9.5	77.84	117.5	-671.7	113.1	75.9	37.18	3.042	
7,900.0	7,858.3	7,902.6	7,852.6	28.4	9.6	77.52	119.6	-685.4	115.3	77.6	37.69	3.059	
8,000.0	7,957.5	8,002.6	7,951.6	28.8	9.8	77.21	121.8	-699.1	117.5	79.3	38.19	3.076	
8,100.0	8,056.7	8,102.6	8,050.6	29.1	9.9	76.92	123.9	-712.9	119.7	81.0	38.70	3.093	
8,200.0	8,155.9	8,202.5	8,149.6	29.5	10.0	76.63	126.1	-726.6	121.9	82.7	39.21	3.109	
8,300.0	8,255.1	8,302.5	8,248.6	29.9	10.2	76.35	128.2	-740.4	124.1	84.4	39.71	3.125	
8,400.0	8,354.3	8,402.5	8,347.6	30.2	10.3	76.09	130.4	-754.1	126.3	86.1	40.22	3.140	
8,500.0	8,453.4	8,502.5	8,446.6	30.6	10.4	75.83	132.5	-767.9	128.5	87.8	40.73	3.155	
8,600.0	8,552.6	8,602.4	8,545.6	31.0	10.6	75.58	134.7	-781.6	130.8	89.5	41.25	3.170	
8,700.0	8,651.8	8,702.4	8,644.6	31.3	10.7	75.34	136.8	-795.4	133.0	91.2	41.76	3.184	
8,800.0	8,751.0	8,802.4	8,743.6	31.7	10.8	75.11	139.0	-809.1	135.2	92.9	42.27	3.198	
8,900.0	8,850.2	8,902.3	8,842.6	32.1	11.0	74.88	141.1	-822.9	137.4	94.6	42.79	3.212	
9,000.0	8,949.4	9,002.3	8,941.6	32.4	11.1	74.66	143.3	-836.6	139.6	96.3	43.30	3.225	
9,100.0	9,048.6	9,104.2	9,042.7	32.8	11.3	75.03	145.2	-849.1	141.3	97.4	43.81	3.224	
9,200.0	9,147.8	9,206.0	9,144.1	33.2	11.4	76.73	146.6	-858.0	141.5	97.3	44.26	3.198	
9,300.0	9,247.0	9,307.4	9,245.4	33.5	11.5	79.79	147.4	-863.4	140.8	96.1	44.64	3.154	
9,400.0	9,346.2	9,408.2	9,346.2	33.9	11.6	84.26	147.7	-865.2	139.5	94.6	44.95	3.104	
9,500.0	9,445.4	9,507.4	9,445.4	34.3	11.7	89.44	147.7	-865.2	138.8	93.6	45.22	3.070	
9,510.8	9,456.0	9,518.1	9,456.0	34.3	11.7	90.00	147.7	-865.2	138.8	93.6	45.25	3.068	
9,600.0	9,544.6	9,606.6	9,544.6	34.6	11.8	94.63	147.7	-865.2	139.3	93.8	45.47	3.063	
9,700.0	9,643.7	9,705.8	9,643.7	35.0	11.9	99.74	147.7	-865.2	140.9	95.2	45.69	3.083	
9,800.0	9,742.9	9,805.0	9,742.9	35.4	12.0	104.70	147.7	-865.2	143.6	97.7	45.91	3.127	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
9,900.0	9,842.1	9,904.2	9,842.1	35.7	12.0	109.44		147.7	-865.2	147.3	101.2	46.13	3.194	
10,000.0	9,941.3	10,003.4	9,941.3	36.1	12.1	113.93		147.7	-865.2	152.1	105.7	46.36	3.280	
10,100.0	10,040.5	10,106.2	10,044.1	36.5	12.2	118.30		147.5	-865.2	157.5	110.9	46.60	3.381	
10,200.0	10,139.7	10,233.6	10,170.1	36.8	12.2	126.89		130.1	-865.0	152.7	105.7	47.00	3.248	
10,300.0	10,238.9	10,348.2	10,277.6	37.2	12.3	142.04		91.0	-864.8	135.9	88.4	47.46	2.862	
10,325.6	10,264.3	10,374.7	10,301.2	37.3	12.3	147.13		79.0	-864.7	131.1	83.5	47.61	2.754	
10,350.0	10,288.5	10,399.0	10,322.3	37.4	12.3	171.11		67.0	-864.6	127.5	79.7	47.76	2.669	
10,375.0	10,313.1	10,423.4	10,343.0	37.5	12.3	-170.33		54.0	-864.6	125.2	77.3	47.92	2.613	
10,399.1	10,336.7	10,446.5	10,362.1	37.6	12.4	-156.77		41.0	-864.5	124.5	76.4	48.06	2.590	
10,400.0	10,337.6	10,447.4	10,362.8	37.6	12.4	-156.30		40.5	-864.5	124.5	76.4	48.07	2.590	
10,425.0	10,361.8	10,470.9	10,381.6	37.7	12.4	-145.11		26.4	-864.4	125.3	77.1	48.20	2.600	
10,450.0	10,385.7	10,494.0	10,399.6	37.8	12.4	-135.77		11.8	-864.3	127.6	79.3	48.32	2.641	
10,475.0	10,409.3	10,516.8	10,416.6	37.8	12.4	-127.71		-3.3	-864.2	131.3	82.9	48.41	2.712	
10,500.0	10,432.4	10,539.2	10,432.8	37.9	12.4	-120.63		-18.8	-864.1	136.2	87.7	48.49	2.808	
10,525.0	10,455.0	10,561.3	10,448.2	38.0	12.5	-114.34		-34.6	-864.0	142.1	93.5	48.55	2.927	
10,550.0	10,477.0	10,583.1	10,462.7	38.1	12.5	-108.73		-50.9	-863.9	148.8	100.3	48.59	3.063	
10,575.0	10,498.4	10,604.6	10,476.5	38.2	12.5	-103.72		-67.4	-863.8	156.3	107.7	48.61	3.215	
10,600.0	10,519.1	10,625.9	10,489.5	38.3	12.5	-99.24		-84.3	-863.7	164.3	115.7	48.63	3.379	
10,625.0	10,539.1	10,647.0	10,501.7	38.3	12.6	-95.22		-101.5	-863.6	172.7	124.1	48.64	3.552	
10,650.0	10,558.3	10,667.9	10,513.2	38.4	12.6	-91.63		-118.9	-863.5	181.5	132.8	48.64	3.731	
10,675.0	10,576.6	10,688.6	10,524.0	38.5	12.6	-88.42		-136.6	-863.4	190.4	141.8	48.64	3.915	
10,700.0	10,594.0	10,709.2	10,534.0	38.6	12.7	-85.55		-154.6	-863.2	199.5	150.9	48.64	4.102	
10,725.0	10,610.5	10,729.6	10,543.3	38.6	12.7	-82.98		-172.7	-863.1	208.7	160.1	48.64	4.290	
10,750.0	10,626.0	10,750.0	10,552.0	38.7	12.7	-80.68		-191.2	-863.0	217.9	169.2	48.65	4.478	
10,775.0	10,640.5	10,770.0	10,559.8	38.8	12.7	-78.64		-209.6	-862.9	227.0	178.4	48.65	4.666	
10,800.0	10,653.8	10,790.1	10,567.1	38.8	12.8	-76.81		-228.3	-862.8	236.1	187.4	48.66	4.851	
10,825.0	10,666.1	10,810.1	10,573.6	38.9	12.8	-75.17		-247.2	-862.7	245.0	196.3	48.68	5.033	
10,850.0	10,677.2	10,830.0	10,579.5	39.0	12.8	-73.72		-266.2	-862.5	253.8	205.1	48.71	5.211	
10,875.0	10,687.2	10,850.0	10,584.7	39.0	12.9	-72.44		-285.6	-862.4	262.4	213.7	48.74	5.384	
10,900.0	10,695.9	10,869.6	10,589.1	39.1	12.9	-71.31		-304.7	-862.3	270.9	222.1	48.78	5.553	
10,925.0	10,703.4	10,889.4	10,593.0	39.1	12.9	-70.31		-324.1	-862.2	279.1	230.3	48.83	5.716	
10,950.0	10,709.7	10,909.2	10,596.1	39.2	12.9	-69.45		-343.6	-862.1	287.1	238.2	48.88	5.873	
10,975.0	10,714.7	10,928.9	10,598.6	39.2	13.0	-68.71		-363.2	-861.9	294.8	245.9	48.94	6.024	
11,000.0	10,718.4	10,950.0	10,600.5	39.3	13.0	-68.09		-384.2	-861.8	302.3	253.3	49.02	6.166	
11,025.0	10,720.8	10,968.5	10,601.5	39.3	13.0	-67.55		-402.6	-861.7	309.5	260.4	49.09	6.305	
11,050.0	10,722.0	10,991.1	10,602.0	39.4	13.1	-67.18		-425.2	-861.5	316.4	267.2	49.19	6.432	
11,059.4	10,722.0	10,996.6	10,602.0	39.4	13.1	-67.02		-430.8	-861.5	318.9	269.7	49.21	6.481	
11,100.0	10,722.0	11,035.7	10,602.0	39.4	13.2	-67.87		-469.8	-861.3	329.4	280.0	49.42	6.664	
11,200.0	10,722.0	11,132.4	10,602.0	39.6	13.4	-69.58		-566.6	-860.6	353.1	303.2	49.97	7.066	
11,300.0	10,722.0	11,230.0	10,602.0	39.8	13.7	-70.90		-664.1	-860.0	373.9	323.3	50.56	7.394	
11,400.0	10,722.0	11,328.2	10,602.0	40.0	14.0	-71.90		-762.4	-859.4	391.5	340.3	51.19	7.647	
11,500.0	10,722.0	11,427.1	10,602.0	40.2	14.5	-72.65		-861.2	-858.8	405.9	354.1	51.87	7.826	
11,600.0	10,722.0	11,526.4	10,602.0	40.4	14.9	-73.19		-960.5	-858.1	417.1	364.5	52.57	7.933	
11,700.0	10,722.0	11,626.0	10,602.0	40.6	15.5	-73.55		-1,060.2	-857.5	424.9	371.6	53.32	7.970	
11,800.0	10,722.0	11,725.9	10,602.0	40.9	16.0	-73.76		-1,160.1	-856.9	429.5	375.4	54.09	7.940	
11,885.5	10,722.0	11,811.4	10,602.0	41.1	16.5	-73.81		-1,245.5	-856.3	430.7	375.9	54.76	7.864	
11,900.0	10,722.0	11,825.9	10,602.0	41.1	16.6	-73.81		-1,260.0	-856.3	430.7	375.8	54.88	7.847	
12,000.0	10,722.0	11,925.9	10,602.0	41.3	17.3	-73.81		-1,360.0	-855.6	430.6	374.9	55.71	7.730	
12,100.0	10,722.0	12,025.9	10,602.0	41.6	17.9	-73.81		-1,460.0	-855.0	430.6	374.1	56.57	7.612	
12,200.0	10,722.0	12,125.9	10,602.0	41.9	18.6	-73.81		-1,560.0	-854.4	430.6	373.1	57.47	7.493	
12,300.0	10,722.0	12,225.9	10,602.0	42.2	19.3	-73.81		-1,660.0	-853.7	430.6	372.2	58.40	7.373	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,400.0	10,722.0	12,325.9	10,602.0	42.5	20.0	-73.81	-1,760.0	-853.1	430.6	371.2	59.36	7.253		
12,500.0	10,722.0	12,425.9	10,602.0	42.8	20.7	-73.81	-1,860.0	-852.5	430.6	370.2	60.35	7.134		
12,600.0	10,722.0	12,525.9	10,602.0	43.1	21.5	-73.81	-1,960.0	-851.8	430.5	369.2	61.37	7.015		
12,700.0	10,722.0	12,625.9	10,602.0	43.4	22.2	-73.80	-2,060.0	-851.2	430.5	368.1	62.41	6.898		
12,800.0	10,722.0	12,725.9	10,602.0	43.8	22.9	-73.80	-2,160.0	-850.6	430.5	367.0	63.48	6.781		
12,900.0	10,722.0	12,825.9	10,602.0	44.2	23.7	-73.80	-2,260.0	-849.9	430.5	365.9	64.57	6.667		
13,000.0	10,722.0	12,925.9	10,602.0	44.6	24.5	-73.80	-2,360.0	-849.3	430.5	364.8	65.69	6.553		
13,100.0	10,722.0	13,025.9	10,602.0	44.9	25.2	-73.80	-2,460.0	-848.7	430.5	363.6	66.82	6.442		
13,200.0	10,722.0	13,125.9	10,602.0	45.4	26.0	-73.80	-2,560.0	-848.0	430.4	362.5	67.98	6.332		
13,300.0	10,722.0	13,225.9	10,602.0	45.8	26.8	-73.80	-2,660.0	-847.4	430.4	361.3	69.15	6.224		
13,400.0	10,722.0	13,325.9	10,602.0	46.2	27.6	-73.80	-2,760.0	-846.8	430.4	360.1	70.34	6.119		
13,500.0	10,722.0	13,425.9	10,602.0	46.6	28.4	-73.80	-2,860.0	-846.1	430.4	358.8	71.55	6.015		
13,600.0	10,722.0	13,525.9	10,602.0	47.1	29.2	-73.80	-2,960.0	-845.5	430.4	357.6	72.78	5.913		
13,700.0	10,722.0	13,625.9	10,602.0	47.6	30.0	-73.80	-3,060.0	-844.9	430.3	356.3	74.02	5.814		
13,800.0	10,722.0	13,725.9	10,602.0	48.0	30.8	-73.80	-3,160.0	-844.2	430.3	355.1	75.28	5.716		
13,900.0	10,722.0	13,825.9	10,602.0	48.5	31.6	-73.80	-3,260.0	-843.6	430.3	353.8	76.55	5.621		
14,000.0	10,722.0	13,925.9	10,602.0	49.0	32.4	-73.80	-3,360.0	-843.0	430.3	352.5	77.84	5.528		
14,100.0	10,722.0	14,025.9	10,602.0	49.5	33.2	-73.80	-3,460.0	-842.3	430.3	351.1	79.14	5.437		
14,200.0	10,722.0	14,125.9	10,602.0	50.0	34.0	-73.80	-3,560.0	-841.7	430.3	349.8	80.46	5.348		
14,300.0	10,722.0	14,225.9	10,602.0	50.6	34.8	-73.80	-3,660.0	-841.1	430.2	348.5	81.78	5.261		
14,400.0	10,722.0	14,325.9	10,602.0	51.1	35.7	-73.80	-3,760.0	-840.4	430.2	347.1	83.12	5.176		
14,500.0	10,722.0	14,425.9	10,602.0	51.6	36.5	-73.80	-3,860.0	-839.8	430.2	345.7	84.47	5.093		
14,600.0	10,722.0	14,525.9	10,602.0	52.2	37.3	-73.79	-3,960.0	-839.2	430.2	344.4	85.83	5.012		
14,700.0	10,722.0	14,625.9	10,602.0	52.8	38.1	-73.79	-4,060.0	-838.5	430.2	343.0	87.21	4.933		
14,800.0	10,722.0	14,725.9	10,602.0	53.3	39.0	-73.79	-4,160.0	-837.9	430.2	341.6	88.59	4.856		
14,900.0	10,722.0	14,825.9	10,602.0	53.9	39.8	-73.79	-4,260.0	-837.3	430.1	340.2	89.98	4.780		
15,000.0	10,722.0	14,925.9	10,602.0	54.5	40.6	-73.79	-4,360.0	-836.6	430.1	338.7	91.38	4.707		
15,100.0	10,722.0	15,025.9	10,602.0	55.1	41.4	-73.79	-4,460.0	-836.0	430.1	337.3	92.79	4.635		
15,200.0	10,722.0	15,125.9	10,602.0	55.7	42.3	-73.79	-4,560.0	-835.4	430.1	335.9	94.21	4.565		
15,300.0	10,722.0	15,225.9	10,602.0	56.3	43.1	-73.79	-4,660.0	-834.7	430.1	334.4	95.64	4.497		
15,400.0	10,722.0	15,325.9	10,602.0	56.9	43.9	-73.79	-4,760.0	-834.1	430.1	333.0	97.08	4.430		
15,500.0	10,722.0	15,425.9	10,602.0	57.5	44.8	-73.79	-4,860.0	-833.5	430.0	331.5	98.52	4.365		
15,600.0	10,722.0	15,525.9	10,602.0	58.1	45.6	-73.79	-4,960.0	-832.8	430.0	330.0	99.97	4.301		
15,700.0	10,722.0	15,625.9	10,602.0	58.8	46.4	-73.79	-5,060.0	-832.2	430.0	328.6	101.43	4.239		
15,800.0	10,722.0	15,725.9	10,602.0	59.4	47.3	-73.79	-5,160.0	-831.6	430.0	327.1	102.90	4.179		
15,900.0	10,722.0	15,825.9	10,602.0	60.0	48.1	-73.79	-5,260.0	-831.0	430.0	325.6	104.37	4.120		
16,000.0	10,722.0	15,925.9	10,602.0	60.7	49.0	-73.79	-5,360.0	-830.3	430.0	324.1	105.85	4.062		
16,100.0	10,722.0	16,025.9	10,602.0	61.3	49.8	-73.79	-5,460.0	-829.7	429.9	322.6	107.33	4.006		
16,200.0	10,722.0	16,125.9	10,602.0	62.0	50.6	-73.79	-5,560.0	-829.1	429.9	321.1	108.83	3.951		
16,300.0	10,722.0	16,225.9	10,602.0	62.6	51.5	-73.79	-5,660.0	-828.4	429.9	319.6	110.32	3.897		
16,400.0	10,722.0	16,325.9	10,602.0	63.3	52.3	-73.79	-5,760.0	-827.8	429.9	318.1	111.83	3.844		
16,500.0	10,722.0	16,425.9	10,602.0	64.0	53.2	-73.78	-5,859.9	-827.2	429.9	316.5	113.33	3.793		
16,600.0	10,722.0	16,525.9	10,602.0	64.7	54.0	-73.78	-5,959.9	-826.5	429.9	315.0	114.85	3.743		
16,700.0	10,722.0	16,625.9	10,602.0	65.3	54.9	-73.78	-6,059.9	-825.9	429.8	313.5	116.37	3.694		
16,800.0	10,722.0	16,725.9	10,602.0	66.0	55.7	-73.78	-6,159.9	-825.3	429.8	311.9	117.89	3.646		
16,900.0	10,722.0	16,825.9	10,602.0	66.7	56.5	-73.78	-6,259.9	-824.6	429.8	310.4	119.42	3.599		
17,000.0	10,722.0	16,925.9	10,602.0	67.4	57.4	-73.78	-6,359.9	-824.0	429.8	308.8	120.95	3.553		
17,100.0	10,722.0	17,025.9	10,602.0	68.1	58.2	-73.78	-6,459.9	-823.4	429.8	307.3	122.49	3.509		
17,200.0	10,722.0	17,125.9	10,602.0	68.8	59.1	-73.78	-6,559.9	-822.7	429.7	305.7	124.03	3.465		
17,300.0	10,722.0	17,225.9	10,602.0	69.5	59.9	-73.78	-6,659.9	-822.1	429.7	304.2	125.57	3.422		
17,400.0	10,722.0	17,325.9	10,602.0	70.2	60.8	-73.78	-6,759.9	-821.5	429.7	302.6	127.12	3.380		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)						
17,500.0	10,722.0	17,425.9	10,602.0	70.9	61.6	-73.78	-6,859.9	-820.8	429.7	301.0	128.67	3.339		
17,600.0	10,722.0	17,525.9	10,602.0	71.6	62.5	-73.78	-6,959.9	-820.2	429.7	299.4	130.23	3.299		
17,700.0	10,722.0	17,625.9	10,602.0	72.3	63.3	-73.78	-7,059.9	-819.6	429.7	297.9	131.79	3.260		
17,800.0	10,722.0	17,725.9	10,602.0	73.1	64.2	-73.78	-7,159.9	-818.9	429.6	296.3	133.36	3.222		
17,900.0	10,722.0	17,825.9	10,602.0	73.8	65.0	-73.78	-7,259.9	-818.3	429.6	294.7	134.92	3.184		
18,000.0	10,722.0	17,925.9	10,602.0	74.5	65.9	-73.78	-7,359.9	-817.7	429.6	293.1	136.49	3.147		
18,100.0	10,722.0	18,025.9	10,602.0	75.2	66.7	-73.78	-7,459.9	-817.0	429.6	291.5	138.07	3.111		
18,200.0	10,722.0	18,125.9	10,602.0	76.0	67.6	-73.78	-7,559.9	-816.4	429.6	289.9	139.64	3.076		
18,300.0	10,722.0	18,225.9	10,602.0	76.7	68.4	-73.77	-7,659.9	-815.8	429.6	288.3	141.22	3.042		
18,400.0	10,722.0	18,325.9	10,602.0	77.4	69.3	-73.77	-7,759.9	-815.1	429.5	286.7	142.81	3.008		
18,500.0	10,722.0	18,425.9	10,602.0	78.2	70.1	-73.77	-7,859.9	-814.5	429.5	285.1	144.39	2.975		
18,600.0	10,722.0	18,525.9	10,602.0	78.9	71.0	-73.77	-7,959.9	-813.9	429.5	283.5	145.98	2.942		
18,700.0	10,722.0	18,625.9	10,602.0	79.7	71.8	-73.77	-8,059.9	-813.2	429.5	281.9	147.57	2.910		
18,800.0	10,722.0	18,725.9	10,602.0	80.4	72.7	-73.77	-8,159.9	-812.6	429.5	280.3	149.16	2.879		
18,900.0	10,722.0	18,825.9	10,602.0	81.2	73.5	-73.77	-8,259.9	-812.0	429.5	278.7	150.76	2.849		
19,000.0	10,722.0	18,925.9	10,602.0	81.9	74.4	-73.77	-8,359.9	-811.3	429.4	277.1	152.36	2.819		
19,100.0	10,722.0	19,025.9	10,602.0	82.7	75.2	-73.77	-8,459.9	-810.7	429.4	275.5	153.96	2.789		
19,200.0	10,722.0	19,125.9	10,602.0	83.4	76.1	-73.77	-8,559.9	-810.1	429.4	273.8	155.56	2.760		
19,300.0	10,722.0	19,225.9	10,602.0	84.2	76.9	-73.77	-8,659.9	-809.4	429.4	272.2	157.16	2.732		
19,400.0	10,722.0	19,325.9	10,602.0	84.9	77.8	-73.77	-8,759.9	-808.8	429.4	270.6	158.77	2.704		
19,500.0	10,722.0	19,425.9	10,602.0	85.7	78.6	-73.77	-8,859.9	-808.2	429.4	269.0	160.38	2.677		
19,600.0	10,722.0	19,525.9	10,602.0	86.4	79.5	-73.77	-8,959.9	-807.5	429.3	267.3	161.99	2.650		
19,700.0	10,722.0	19,625.9	10,602.0	87.2	80.4	-73.77	-9,059.9	-806.9	429.3	265.7	163.60	2.624		
19,800.0	10,722.0	19,725.9	10,602.0	88.0	81.2	-73.77	-9,159.9	-806.3	429.3	264.1	165.22	2.598		
19,900.0	10,722.0	19,825.9	10,602.0	88.7	82.1	-73.77	-9,259.9	-805.6	429.3	262.4	166.84	2.573		
20,000.0	10,722.0	19,925.9	10,602.0	89.5	82.9	-73.77	-9,359.9	-805.0	429.3	260.8	168.46	2.548		
20,100.0	10,722.0	20,025.9	10,602.0	90.3	83.8	-73.77	-9,459.9	-804.4	429.2	259.2	170.08	2.524		
20,200.0	10,722.0	20,125.9	10,602.0	91.1	84.6	-73.76	-9,559.9	-803.7	429.2	257.5	171.70	2.500		
20,300.0	10,722.0	20,225.9	10,602.0	91.8	85.5	-73.76	-9,659.9	-803.1	429.2	255.9	173.32	2.476		
20,400.0	10,722.0	20,325.9	10,602.0	92.6	86.3	-73.76	-9,759.9	-802.5	429.2	254.3	174.95	2.453		
20,500.0	10,722.0	20,425.9	10,602.0	93.4	87.2	-73.76	-9,859.9	-801.9	429.2	252.6	176.57	2.431		
20,600.0	10,722.0	20,525.9	10,602.0	94.2	88.0	-73.76	-9,959.9	-801.2	429.2	251.0	178.20	2.408		
20,700.0	10,722.0	20,625.9	10,602.0	94.9	88.9	-73.76	-10,059.9	-800.6	429.1	249.3	179.83	2.386		
20,800.0	10,722.0	20,725.9	10,602.0	95.7	89.8	-73.76	-10,159.9	-800.0	429.1	247.7	181.46	2.365		
20,863.7	10,722.0	20,789.6	10,602.0	96.2	90.3	-73.76	-10,223.5	-799.5	429.1	246.6	182.50	2.351		

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

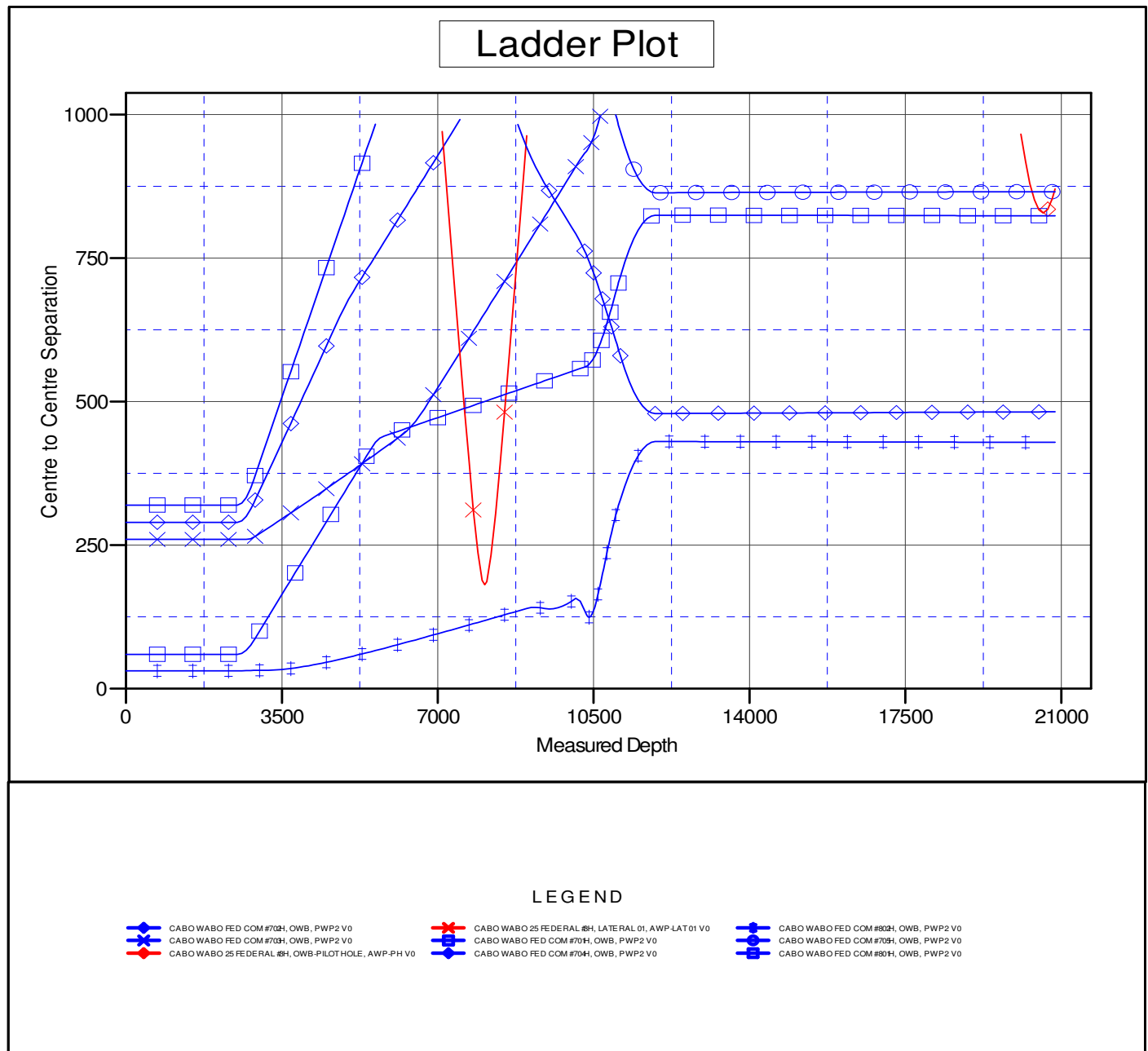
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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 #803H
 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 convergent 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 #803H
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 #803H	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

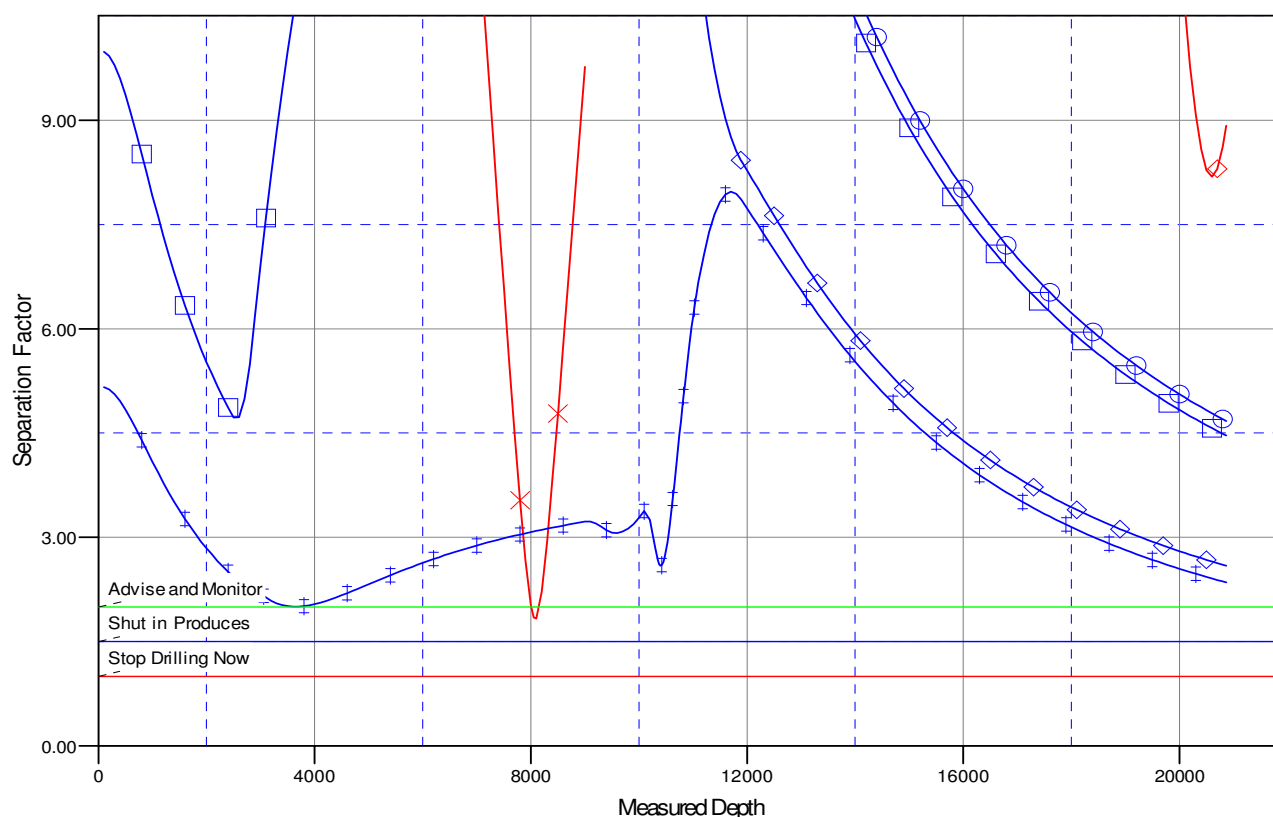
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #803H

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

Grid Convergence at Surface is: 0.21°

Separation Factor Plot



LEGEND

CABO WABO FED COM #702H, OWB, PWP2 V0
 CABO WABO FED COM #703H, OWB, PWP2 V0
 CABO WABO 25 FEDERAL #6H, OWB-PILOTHOLE, AWP-PH V0

CABO WABO 25 FEDERAL #6H, LATERAL 01, AWP-LAT 01 V0
 CABO WABO FED COM #704H, OWB, PWP2 V0
 CABO WABO FED COM #704H, OWB, PWP2 V0

CABO WABO FED COM #803H, OWB, PWP2 V0
 CABO WABO FED COM #705H, OWB, PWP2 V0
 CABO WABO FED COM #803H, OWB, PWP2 V0

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

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COMPASS 5000.15 Build 91E

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #803H

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 #803H
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 #803H	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 #803H			
Well Position	+N/-S	0.0 usft	Northing:	408,373.67 usft
	+E/-W	0.0 usft	Easting:	624,005.48 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 7' 19.567 N
			Longitude:	103° 55' 58.003 W
			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	47,569.89284968

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	186.76	

Survey Tool Program	Date	9/9/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,863.6	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
1,400.0	0.00	0.00	1,400.0	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 #803H
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 #803H	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)
1,500.0	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	270.59	2,600.0	0.0	-1.7	0.2	2.00	2.00	0.00
2,700.0	4.00	270.59	2,699.8	0.1	-7.0	0.7	2.00	2.00	0.00
2,800.0	6.00	270.59	2,799.5	0.2	-15.7	1.7	2.00	2.00	0.00
2,864.6	7.29	270.59	2,863.6	0.2	-23.2	2.5	2.00	2.00	0.00
Start 7461.1 hold at 2864.6 MD									
2,900.0	7.29	270.59	2,898.7	0.3	-27.7	3.0	0.00	0.00	0.00
3,000.0	7.29	270.59	2,997.9	0.4	-40.4	4.3	0.00	0.00	0.00
3,100.0	7.29	270.59	3,097.1	0.5	-53.0	5.7	0.00	0.00	0.00
3,200.0	7.29	270.59	3,196.3	0.7	-65.7	7.1	0.00	0.00	0.00
3,300.0	7.29	270.59	3,295.5	0.8	-78.4	8.4	0.00	0.00	0.00
3,400.0	7.29	270.59	3,394.7	0.9	-91.1	9.8	0.00	0.00	0.00
3,500.0	7.29	270.59	3,493.9	1.1	-103.8	11.1	0.00	0.00	0.00
3,600.0	7.29	270.59	3,593.1	1.2	-116.5	12.5	0.00	0.00	0.00
3,700.0	7.29	270.59	3,692.3	1.3	-129.2	13.9	0.00	0.00	0.00
3,800.0	7.29	270.59	3,791.5	1.5	-141.9	15.2	0.00	0.00	0.00
3,900.0	7.29	270.59	3,890.6	1.6	-154.6	16.6	0.00	0.00	0.00
4,000.0	7.29	270.59	3,989.8	1.7	-167.3	18.0	0.00	0.00	0.00
4,100.0	7.29	270.59	4,089.0	1.9	-179.9	19.3	0.00	0.00	0.00
4,200.0	7.29	270.59	4,188.2	2.0	-192.6	20.7	0.00	0.00	0.00
4,300.0	7.29	270.59	4,287.4	2.1	-205.3	22.1	0.00	0.00	0.00
4,400.0	7.29	270.59	4,386.6	2.2	-218.0	23.4	0.00	0.00	0.00
4,500.0	7.29	270.59	4,485.8	2.4	-230.7	24.8	0.00	0.00	0.00
4,600.0	7.29	270.59	4,585.0	2.5	-243.4	26.1	0.00	0.00	0.00
4,700.0	7.29	270.59	4,684.2	2.6	-256.1	27.5	0.00	0.00	0.00
4,800.0	7.29	270.59	4,783.4	2.8	-268.8	28.9	0.00	0.00	0.00
4,900.0	7.29	270.59	4,882.6	2.9	-281.5	30.2	0.00	0.00	0.00
5,000.0	7.29	270.59	4,981.7	3.0	-294.2	31.6	0.00	0.00	0.00
5,100.0	7.29	270.59	5,080.9	3.2	-306.8	33.0	0.00	0.00	0.00
5,200.0	7.29	270.59	5,180.1	3.3	-319.5	34.3	0.00	0.00	0.00
5,300.0	7.29	270.59	5,279.3	3.4	-332.2	35.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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)
5,400.0	7.29	270.59	5,378.5	3.6	-344.9	37.0	0.00	0.00	0.00
5,500.0	7.29	270.59	5,477.7	3.7	-357.6	38.4	0.00	0.00	0.00
5,600.0	7.29	270.59	5,576.9	3.8	-370.3	39.8	0.00	0.00	0.00
5,700.0	7.29	270.59	5,676.1	3.9	-383.0	41.1	0.00	0.00	0.00
5,800.0	7.29	270.59	5,775.3	4.1	-395.7	42.5	0.00	0.00	0.00
5,900.0	7.29	270.59	5,874.5	4.2	-408.4	43.9	0.00	0.00	0.00
6,000.0	7.29	270.59	5,973.7	4.3	-421.1	45.2	0.00	0.00	0.00
6,100.0	7.29	270.59	6,072.9	4.5	-433.8	46.6	0.00	0.00	0.00
6,200.0	7.29	270.59	6,172.0	4.6	-446.4	48.0	0.00	0.00	0.00
6,300.0	7.29	270.59	6,271.2	4.7	-459.1	49.3	0.00	0.00	0.00
6,400.0	7.29	270.59	6,370.4	4.9	-471.8	50.7	0.00	0.00	0.00
6,500.0	7.29	270.59	6,469.6	5.0	-484.5	52.0	0.00	0.00	0.00
6,600.0	7.29	270.59	6,568.8	5.1	-497.2	53.4	0.00	0.00	0.00
6,700.0	7.29	270.59	6,668.0	5.3	-509.9	54.8	0.00	0.00	0.00
6,800.0	7.29	270.59	6,767.2	5.4	-522.6	56.1	0.00	0.00	0.00
6,900.0	7.29	270.59	6,866.4	5.5	-535.3	57.5	0.00	0.00	0.00
7,000.0	7.29	270.59	6,965.6	5.6	-548.0	58.9	0.00	0.00	0.00
7,100.0	7.29	270.59	7,064.8	5.8	-560.7	60.2	0.00	0.00	0.00
7,200.0	7.29	270.59	7,164.0	5.9	-573.3	61.6	0.00	0.00	0.00
7,300.0	7.29	270.59	7,263.2	6.0	-586.0	62.9	0.00	0.00	0.00
7,400.0	7.29	270.59	7,362.3	6.2	-598.7	64.3	0.00	0.00	0.00
7,500.0	7.29	270.59	7,461.5	6.3	-611.4	65.7	0.00	0.00	0.00
7,600.0	7.29	270.59	7,560.7	6.4	-624.1	67.0	0.00	0.00	0.00
7,700.0	7.29	270.59	7,659.9	6.6	-636.8	68.4	0.00	0.00	0.00
7,800.0	7.29	270.59	7,759.1	6.7	-649.5	69.8	0.00	0.00	0.00
7,900.0	7.29	270.59	7,858.3	6.8	-662.2	71.1	0.00	0.00	0.00
8,000.0	7.29	270.59	7,957.5	7.0	-674.9	72.5	0.00	0.00	0.00
8,100.0	7.29	270.59	8,056.7	7.1	-687.6	73.9	0.00	0.00	0.00
8,200.0	7.29	270.59	8,155.9	7.2	-700.3	75.2	0.00	0.00	0.00
8,300.0	7.29	270.59	8,255.1	7.3	-712.9	76.6	0.00	0.00	0.00
8,400.0	7.29	270.59	8,354.3	7.5	-725.6	77.9	0.00	0.00	0.00
8,500.0	7.29	270.59	8,453.4	7.6	-738.3	79.3	0.00	0.00	0.00
8,600.0	7.29	270.59	8,552.6	7.7	-751.0	80.7	0.00	0.00	0.00
8,700.0	7.29	270.59	8,651.8	7.9	-763.7	82.0	0.00	0.00	0.00
8,800.0	7.29	270.59	8,751.0	8.0	-776.4	83.4	0.00	0.00	0.00
8,900.0	7.29	270.59	8,850.2	8.1	-789.1	84.8	0.00	0.00	0.00
9,000.0	7.29	270.59	8,949.4	8.3	-801.8	86.1	0.00	0.00	0.00
9,100.0	7.29	270.59	9,048.6	8.4	-814.5	87.5	0.00	0.00	0.00
9,200.0	7.29	270.59	9,147.8	8.5	-827.2	88.8	0.00	0.00	0.00
9,300.0	7.29	270.59	9,247.0	8.7	-839.8	90.2	0.00	0.00	0.00
9,400.0	7.29	270.59	9,346.2	8.8	-852.5	91.6	0.00	0.00	0.00
9,500.0	7.29	270.59	9,445.4	8.9	-865.2	92.9	0.00	0.00	0.00
9,600.0	7.29	270.59	9,544.6	9.1	-877.9	94.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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)
9,700.0	7.29	270.59	9,643.7	9.2	-890.6	95.7	0.00	0.00	0.00
9,800.0	7.29	270.59	9,742.9	9.3	-903.3	97.0	0.00	0.00	0.00
9,900.0	7.29	270.59	9,842.1	9.4	-916.0	98.4	0.00	0.00	0.00
10,000.0	7.29	270.59	9,941.3	9.6	-928.7	99.8	0.00	0.00	0.00
10,100.0	7.29	270.59	10,040.5	9.7	-941.4	101.1	0.00	0.00	0.00
10,200.0	7.29	270.59	10,139.7	9.8	-954.1	102.5	0.00	0.00	0.00
10,300.0	7.29	270.59	10,238.9	10.0	-966.7	103.8	0.00	0.00	0.00
10,325.6	7.29	270.59	10,264.3	10.0	-970.0	104.2	0.00	0.00	0.00
Start DLS 12.00 TFO -74.56									
10,400.0	12.93	228.63	10,337.6	4.5	-981.0	110.9	12.00	7.58	-56.41
10,500.0	23.88	212.32	10,432.4	-20.0	-1,000.3	137.6	12.00	10.95	-16.31
10,600.0	35.49	206.10	10,519.1	-63.4	-1,023.9	183.4	12.00	11.61	-6.21
10,700.0	47.28	202.69	10,594.0	-123.6	-1,051.0	246.3	12.00	11.79	-3.42
10,800.0	59.14	200.37	10,653.8	-198.0	-1,080.2	323.7	12.00	11.86	-2.31
10,900.0	71.03	198.58	10,695.9	-283.3	-1,110.3	412.0	12.00	11.89	-1.80
11,000.0	82.93	197.03	10,718.4	-375.9	-1,140.0	507.4	12.00	11.90	-1.55
11,059.4	90.00	196.15	10,722.0	-432.7	-1,156.9	565.8	12.00	11.91	-1.48
Start DLS 2.00 TFO -90.00									
11,100.0	90.00	195.34	10,722.0	-471.8	-1,168.0	605.9	2.00	0.00	-2.00
11,200.0	90.00	193.34	10,722.0	-568.7	-1,192.7	705.0	2.00	0.00	-2.00
11,300.0	90.00	191.34	10,722.0	-666.3	-1,214.1	804.6	2.00	0.00	-2.00
11,400.0	90.00	189.34	10,722.0	-764.7	-1,232.0	904.4	2.00	0.00	-2.00
11,500.0	90.00	187.34	10,722.0	-863.7	-1,246.5	1,004.3	2.00	0.00	-2.00
11,600.0	90.00	185.34	10,722.0	-963.0	-1,257.6	1,104.3	2.00	0.00	-2.00
11,700.0	90.00	183.34	10,722.0	-1,062.8	-1,265.1	1,204.2	2.00	0.00	-2.00
11,800.0	90.00	181.34	10,722.0	-1,162.7	-1,269.2	1,303.9	2.00	0.00	-2.00
11,885.5	90.00	179.63	10,722.0	-1,248.1	-1,269.9	1,388.9	2.00	0.00	-2.00
Start 8978.2 hold at 11885.5 MD									
11,900.0	90.00	179.63	10,722.0	-1,262.7	-1,269.8	1,403.3	0.00	0.00	0.00
12,000.0	90.00	179.63	10,722.0	-1,362.7	-1,269.2	1,502.5	0.00	0.00	0.00
12,100.0	90.00	179.63	10,722.0	-1,462.7	-1,268.5	1,601.7	0.00	0.00	0.00
12,200.0	90.00	179.63	10,722.0	-1,562.7	-1,267.9	1,701.0	0.00	0.00	0.00
12,300.0	90.00	179.63	10,722.0	-1,662.6	-1,267.2	1,800.2	0.00	0.00	0.00
12,400.0	90.00	179.63	10,722.0	-1,762.6	-1,266.6	1,899.4	0.00	0.00	0.00
12,500.0	90.00	179.63	10,722.0	-1,862.6	-1,265.9	1,998.6	0.00	0.00	0.00
12,600.0	90.00	179.63	10,722.0	-1,962.6	-1,265.3	2,097.9	0.00	0.00	0.00
12,700.0	90.00	179.63	10,722.0	-2,062.6	-1,264.6	2,197.1	0.00	0.00	0.00
12,800.0	90.00	179.63	10,722.0	-2,162.6	-1,264.0	2,296.3	0.00	0.00	0.00
12,900.0	90.00	179.63	10,722.0	-2,262.6	-1,263.3	2,395.6	0.00	0.00	0.00
13,000.0	90.00	179.63	10,722.0	-2,362.6	-1,262.7	2,494.8	0.00	0.00	0.00
13,100.0	90.00	179.63	10,722.0	-2,462.6	-1,262.0	2,594.0	0.00	0.00	0.00
13,200.0	90.00	179.63	10,722.0	-2,562.6	-1,261.4	2,693.2	0.00	0.00	0.00
13,300.0	90.00	179.63	10,722.0	-2,662.6	-1,260.7	2,792.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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)
13,400.0	90.00	179.63	10,722.0	-2,762.6	-1,260.1	2,891.7	0.00	0.00	0.00
13,500.0	90.00	179.63	10,722.0	-2,862.6	-1,259.4	2,990.9	0.00	0.00	0.00
13,600.0	90.00	179.63	10,722.0	-2,962.6	-1,258.8	3,090.1	0.00	0.00	0.00
13,700.0	90.00	179.63	10,722.0	-3,062.6	-1,258.1	3,189.4	0.00	0.00	0.00
13,800.0	90.00	179.63	10,722.0	-3,162.6	-1,257.5	3,288.6	0.00	0.00	0.00
13,900.0	90.00	179.63	10,722.0	-3,262.6	-1,256.8	3,387.8	0.00	0.00	0.00
14,000.0	90.00	179.63	10,722.0	-3,362.6	-1,256.2	3,487.0	0.00	0.00	0.00
14,100.0	90.00	179.63	10,722.0	-3,462.6	-1,255.5	3,586.3	0.00	0.00	0.00
14,200.0	90.00	179.63	10,722.0	-3,562.6	-1,254.9	3,685.5	0.00	0.00	0.00
14,300.0	90.00	179.63	10,722.0	-3,662.6	-1,254.2	3,784.7	0.00	0.00	0.00
14,400.0	90.00	179.63	10,722.0	-3,762.6	-1,253.6	3,884.0	0.00	0.00	0.00
14,500.0	90.00	179.63	10,722.0	-3,862.6	-1,252.9	3,983.2	0.00	0.00	0.00
14,600.0	90.00	179.63	10,722.0	-3,962.6	-1,252.3	4,082.4	0.00	0.00	0.00
14,700.0	90.00	179.63	10,722.0	-4,062.6	-1,251.6	4,181.6	0.00	0.00	0.00
14,800.0	90.00	179.63	10,722.0	-4,162.6	-1,251.0	4,280.9	0.00	0.00	0.00
14,900.0	90.00	179.63	10,722.0	-4,262.6	-1,250.3	4,380.1	0.00	0.00	0.00
15,000.0	90.00	179.63	10,722.0	-4,362.6	-1,249.7	4,479.3	0.00	0.00	0.00
15,100.0	90.00	179.63	10,722.0	-4,462.6	-1,249.0	4,578.5	0.00	0.00	0.00
15,200.0	90.00	179.63	10,722.0	-4,562.6	-1,248.4	4,677.8	0.00	0.00	0.00
15,300.0	90.00	179.63	10,722.0	-4,662.6	-1,247.7	4,777.0	0.00	0.00	0.00
15,400.0	90.00	179.63	10,722.0	-4,762.6	-1,247.1	4,876.2	0.00	0.00	0.00
15,500.0	90.00	179.63	10,722.0	-4,862.6	-1,246.4	4,975.5	0.00	0.00	0.00
15,600.0	90.00	179.63	10,722.0	-4,962.6	-1,245.8	5,074.7	0.00	0.00	0.00
15,700.0	90.00	179.63	10,722.0	-5,062.6	-1,245.1	5,173.9	0.00	0.00	0.00
15,800.0	90.00	179.63	10,722.0	-5,162.6	-1,244.5	5,273.1	0.00	0.00	0.00
15,900.0	90.00	179.63	10,722.0	-5,262.6	-1,243.8	5,372.4	0.00	0.00	0.00
16,000.0	90.00	179.63	10,722.0	-5,362.6	-1,243.2	5,471.6	0.00	0.00	0.00
16,100.0	90.00	179.63	10,722.0	-5,462.6	-1,242.5	5,570.8	0.00	0.00	0.00
16,200.0	90.00	179.63	10,722.0	-5,562.6	-1,241.9	5,670.0	0.00	0.00	0.00
16,300.0	90.00	179.63	10,722.0	-5,662.6	-1,241.2	5,769.3	0.00	0.00	0.00
16,400.0	90.00	179.63	10,722.0	-5,762.6	-1,240.6	5,868.5	0.00	0.00	0.00
16,500.0	90.00	179.63	10,722.0	-5,862.6	-1,239.9	5,967.7	0.00	0.00	0.00
16,600.0	90.00	179.63	10,722.0	-5,962.6	-1,239.3	6,066.9	0.00	0.00	0.00
16,700.0	90.00	179.63	10,722.0	-6,062.6	-1,238.6	6,166.2	0.00	0.00	0.00
16,800.0	90.00	179.63	10,722.0	-6,162.6	-1,238.0	6,265.4	0.00	0.00	0.00
16,900.0	90.00	179.63	10,722.0	-6,262.6	-1,237.3	6,364.6	0.00	0.00	0.00
17,000.0	90.00	179.63	10,722.0	-6,362.5	-1,236.7	6,463.9	0.00	0.00	0.00
17,100.0	90.00	179.63	10,722.0	-6,462.5	-1,236.0	6,563.1	0.00	0.00	0.00
17,200.0	90.00	179.63	10,722.0	-6,562.5	-1,235.4	6,662.3	0.00	0.00	0.00
17,300.0	90.00	179.63	10,722.0	-6,662.5	-1,234.7	6,761.5	0.00	0.00	0.00
17,400.0	90.00	179.63	10,722.0	-6,762.5	-1,234.1	6,860.8	0.00	0.00	0.00
17,500.0	90.00	179.63	10,722.0	-6,862.5	-1,233.4	6,960.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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)
17,600.0	90.00	179.63	10,722.0	-6,962.5	-1,232.8	7,059.2	0.00	0.00	0.00
17,700.0	90.00	179.63	10,722.0	-7,062.5	-1,232.1	7,158.4	0.00	0.00	0.00
17,800.0	90.00	179.63	10,722.0	-7,162.5	-1,231.5	7,257.7	0.00	0.00	0.00
17,900.0	90.00	179.63	10,722.0	-7,262.5	-1,230.8	7,356.9	0.00	0.00	0.00
18,000.0	90.00	179.63	10,722.0	-7,362.5	-1,230.2	7,456.1	0.00	0.00	0.00
18,100.0	90.00	179.63	10,722.0	-7,462.5	-1,229.5	7,555.4	0.00	0.00	0.00
18,200.0	90.00	179.63	10,722.0	-7,562.5	-1,228.9	7,654.6	0.00	0.00	0.00
18,300.0	90.00	179.63	10,722.0	-7,662.5	-1,228.2	7,753.8	0.00	0.00	0.00
18,400.0	90.00	179.63	10,722.0	-7,762.5	-1,227.6	7,853.0	0.00	0.00	0.00
18,500.0	90.00	179.63	10,722.0	-7,862.5	-1,226.9	7,952.3	0.00	0.00	0.00
18,600.0	90.00	179.63	10,722.0	-7,962.5	-1,226.3	8,051.5	0.00	0.00	0.00
18,700.0	90.00	179.63	10,722.0	-8,062.5	-1,225.6	8,150.7	0.00	0.00	0.00
18,800.0	90.00	179.63	10,722.0	-8,162.5	-1,225.0	8,249.9	0.00	0.00	0.00
18,900.0	90.00	179.63	10,722.0	-8,262.5	-1,224.3	8,349.2	0.00	0.00	0.00
19,000.0	90.00	179.63	10,722.0	-8,362.5	-1,223.7	8,448.4	0.00	0.00	0.00
19,100.0	90.00	179.63	10,722.0	-8,462.5	-1,223.0	8,547.6	0.00	0.00	0.00
19,200.0	90.00	179.63	10,722.0	-8,562.5	-1,222.4	8,646.8	0.00	0.00	0.00
19,300.0	90.00	179.63	10,722.0	-8,662.5	-1,221.7	8,746.1	0.00	0.00	0.00
19,400.0	90.00	179.63	10,722.0	-8,762.5	-1,221.1	8,845.3	0.00	0.00	0.00
19,500.0	90.00	179.63	10,722.0	-8,862.5	-1,220.4	8,944.5	0.00	0.00	0.00
19,600.0	90.00	179.63	10,722.0	-8,962.5	-1,219.8	9,043.8	0.00	0.00	0.00
19,700.0	90.00	179.63	10,722.0	-9,062.5	-1,219.1	9,143.0	0.00	0.00	0.00
19,800.0	90.00	179.63	10,722.0	-9,162.5	-1,218.5	9,242.2	0.00	0.00	0.00
19,900.0	90.00	179.63	10,722.0	-9,262.5	-1,217.8	9,341.4	0.00	0.00	0.00
20,000.0	90.00	179.63	10,722.0	-9,362.5	-1,217.2	9,440.7	0.00	0.00	0.00
20,100.0	90.00	179.63	10,722.0	-9,462.5	-1,216.5	9,539.9	0.00	0.00	0.00
20,200.0	90.00	179.63	10,722.0	-9,562.5	-1,215.9	9,639.1	0.00	0.00	0.00
20,300.0	90.00	179.63	10,722.0	-9,662.5	-1,215.2	9,738.3	0.00	0.00	0.00
20,400.0	90.00	179.63	10,722.0	-9,762.5	-1,214.6	9,837.6	0.00	0.00	0.00
20,500.0	90.00	179.63	10,722.0	-9,862.5	-1,213.9	9,936.8	0.00	0.00	0.00
20,600.0	90.00	179.63	10,722.0	-9,962.5	-1,213.3	10,036.0	0.00	0.00	0.00
20,700.0	90.00	179.63	10,722.0	-10,062.5	-1,212.6	10,135.3	0.00	0.00	0.00
20,800.0	90.00	179.63	10,722.0	-10,162.5	-1,212.0	10,234.5	0.00	0.00	0.00
20,863.7	90.00	179.63	10,722.0	-10,226.2	-1,211.5	10,297.7	0.00	0.00	0.00
TD at 20863.7									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #803H
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 #803H	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
PBHL (CABO WABO - plan hits target center - Rectangle (sides W100.0 H10,066.0 D20.0)	0.00	359.63	10,722.0	-10,226.2	-1,211.5	398,147.48	622,793.94	32° 5' 38.410 N	103° 56' 12.528 W
FTP (CABO WABO FI - plan misses target center by 215.6usft at 10831.3usft MD (10669.0 TVD, -223.6 N, -1089.6 E) - Circle (radius 50.0)	0.00	0.00	10,722.0	-131.4	-1,277.1	408,242.27	622,728.33	32° 7' 18.314 N	103° 56' 12.859 W
LTP (CABO WABO FE - plan hits target center - Point	0.00	0.00	10,722.0	-10,096.2	-1,212.4	398,277.47	622,793.09	32° 5' 39.696 N	103° 56' 12.532 W

Plan Annotations

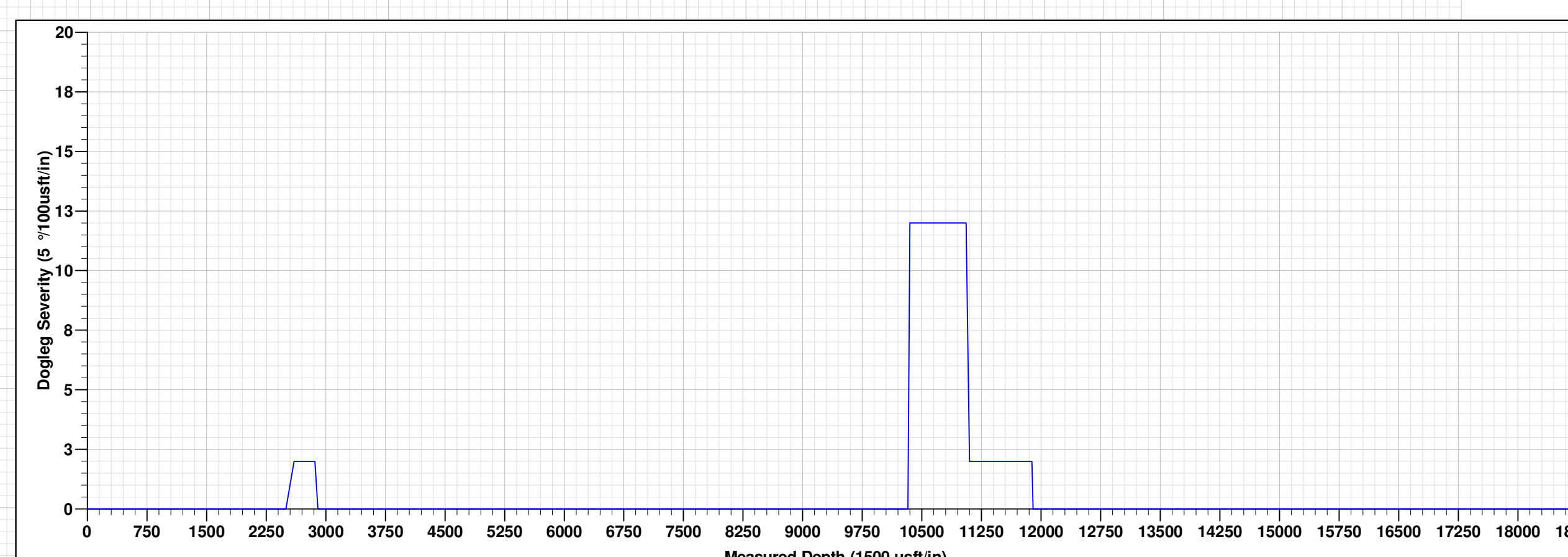
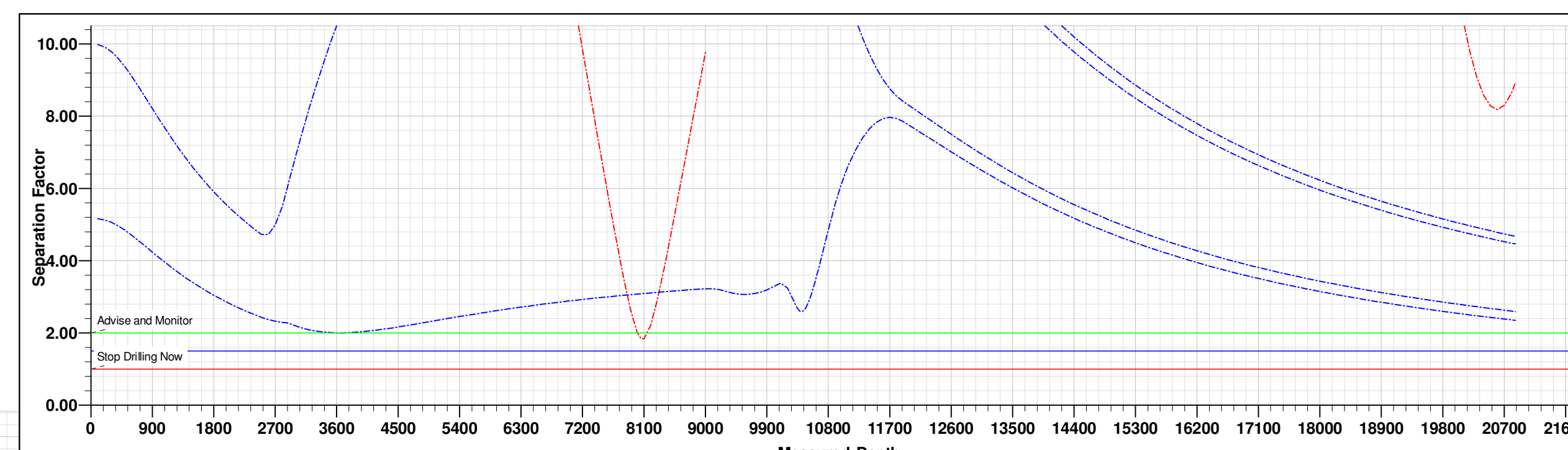
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2865	2864	0	-23	Start 7461.1 hold at 2864.6 MD
10,326	10,264	10	-970	Start DLS 12.00 TFO -74.56
11,059	10,722	-433	-1157	Start DLS 2.00 TFO -90.00
11,885	10,722	-1248	-1270	Start 8978.2 hold at 11885.5 MD
20,864	10,722	-10,226	-1212	TD at 20863.7

Checked By: _____ Approved By: _____ Date: _____

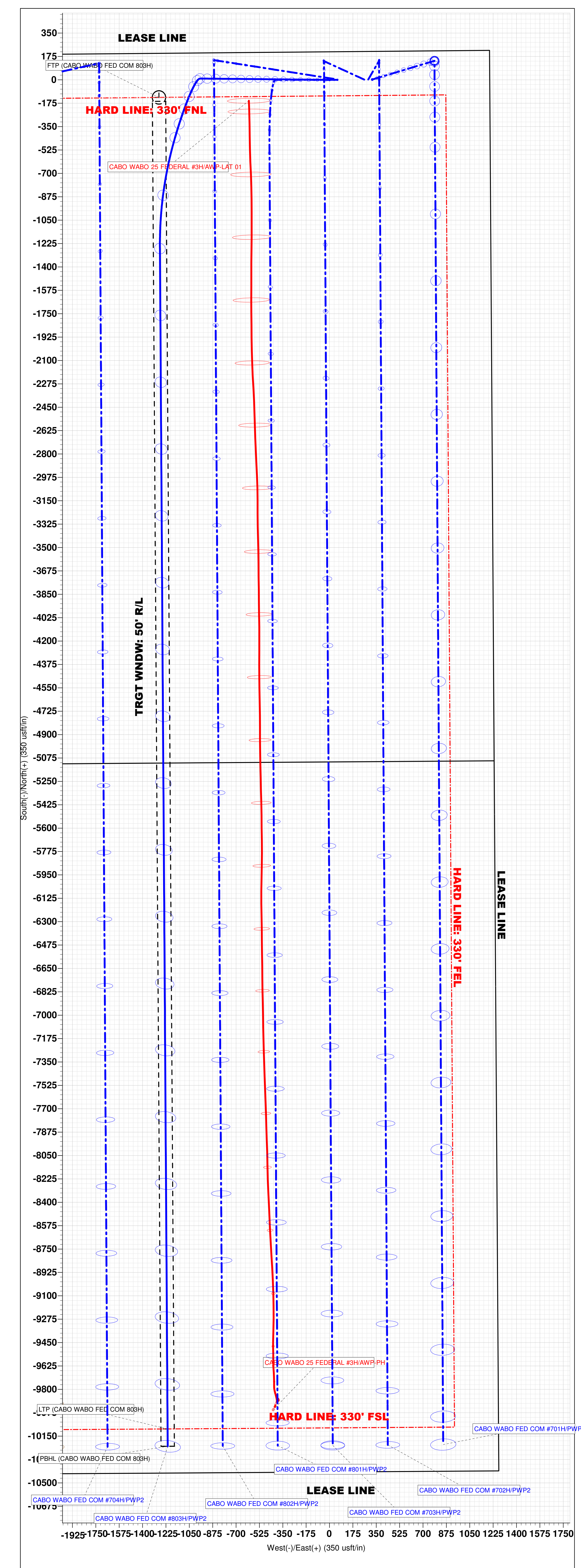
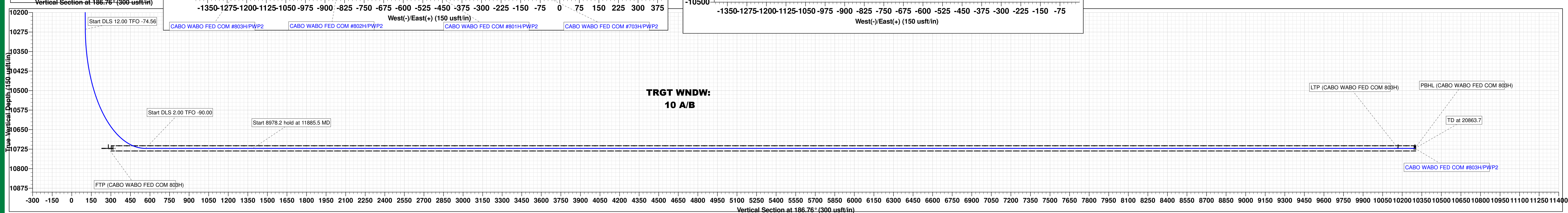
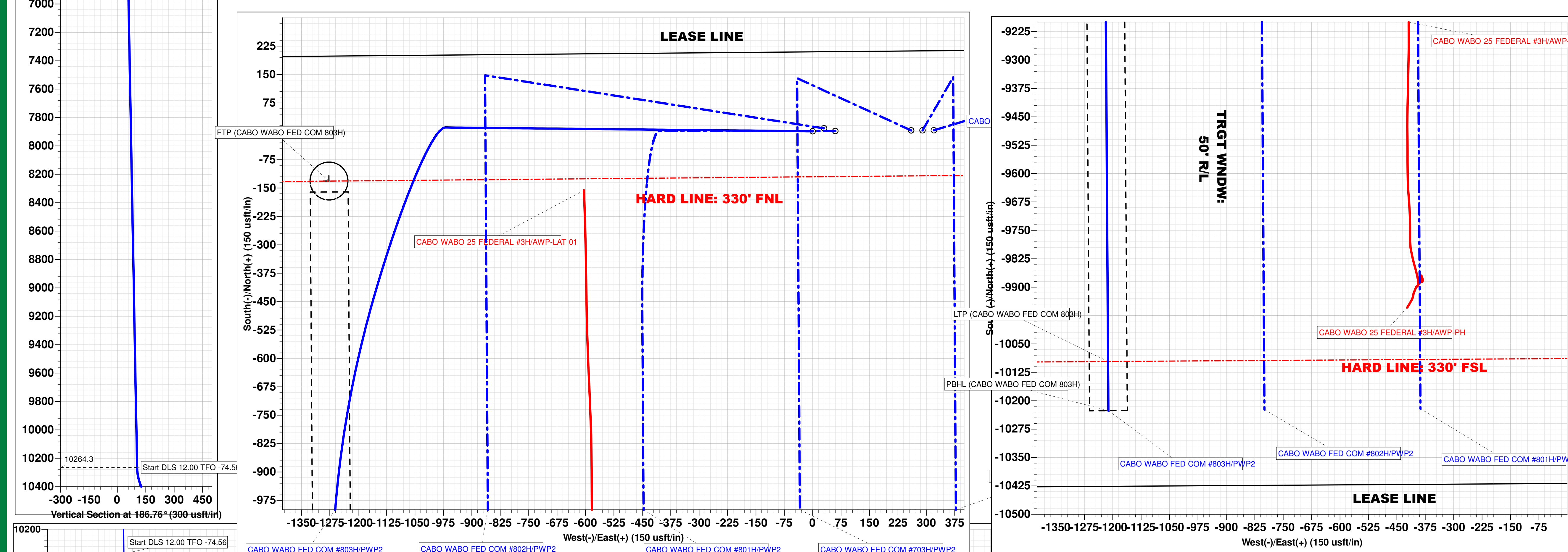
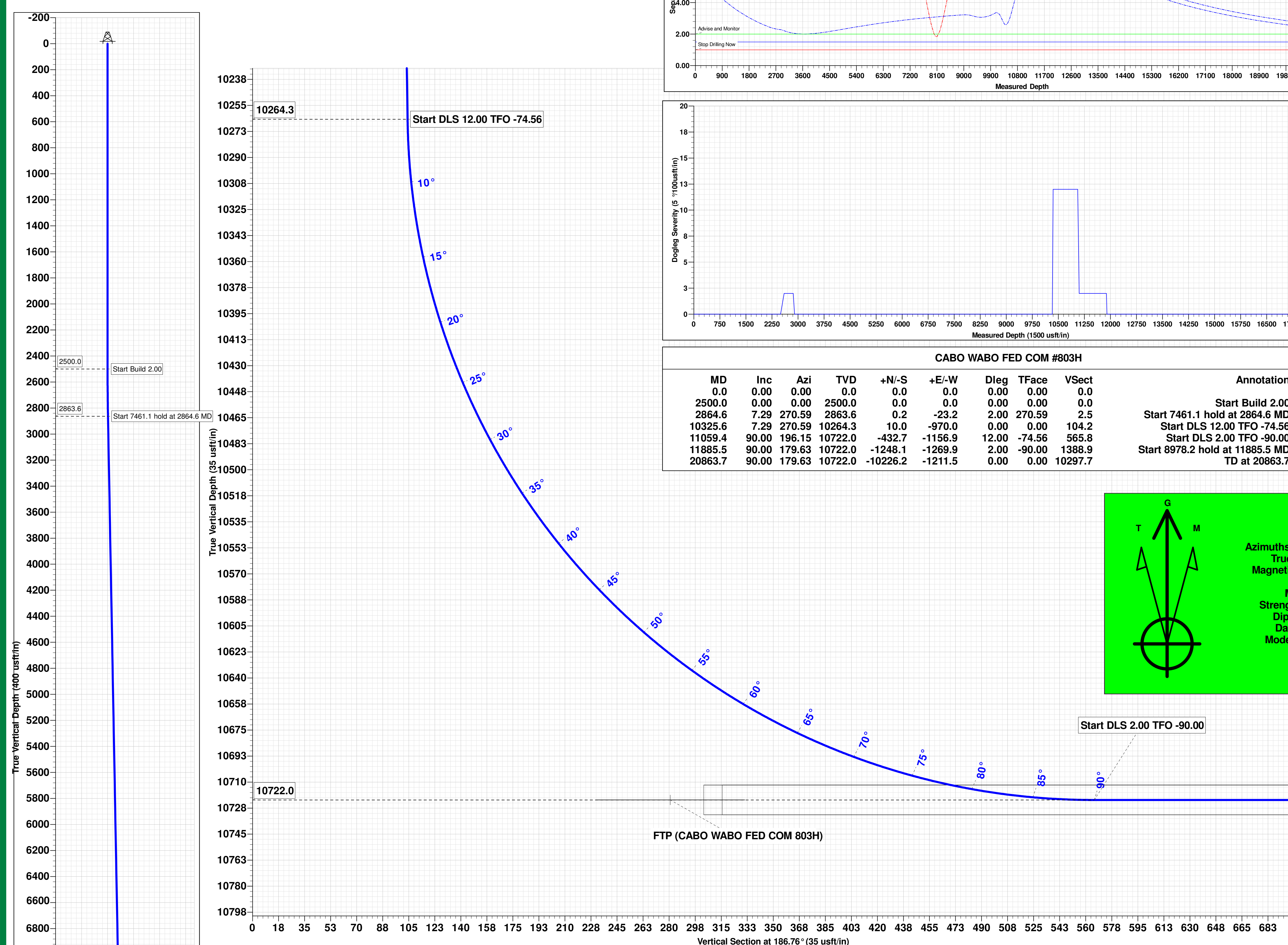
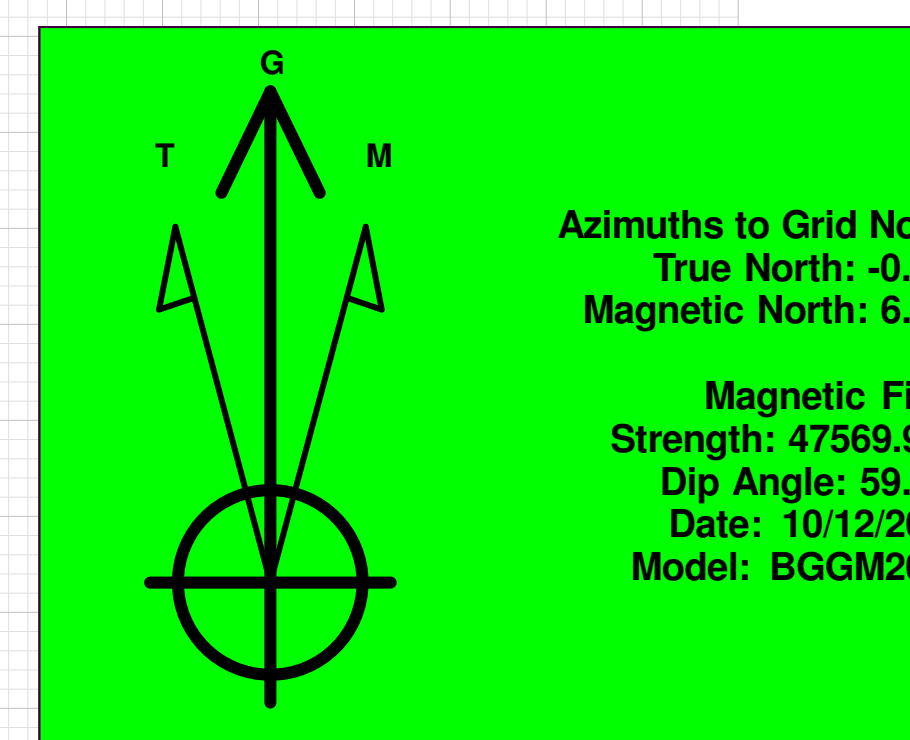


+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408373.67	624005.48	32° 7' 19.567 N	103° 55' 58.003 W

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (CABO WABO FED COM 803H)	10722.0	-131.4	-1277.2	408242.27	622728.33	32° 7' 18.314 N	103° 56' 12.859 W
LTP (CABO WABO FED COM 803H)	10722.0	-10096.2	-1211.4	398277.47	622793.09	32° 5' 39.696 N	103° 56' 12.532 W
PBHL (CABO WABO FED COM 803H)	10722.0	-10226.2	-1212.5	398147.48	622793.94	32° 5' 38.410 N	103° 56' 12.528 W



CABO WABO FED COM #803H									
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
2864.6	7.29	270.59	2863.6	0.2	-23.2	2.00	270.59	2.5	Start 7451.1 hold at 2864.6 MD
10325.6	7.29	270.59	10264.3	1.0	-97.00	0.00	0.00	104.2	Start DLS 12.00 TFO -74.56
11059.4	90.0	196.15	10722.0	-432.7	-1156.9	12.00	-74.56	565.8	Start DLS 2.00 TFO -90.00
11885.5	90.0	178.63	10722.0	-1248.1	-1269.9	2.00	-90.00	1398.9	Start 8978.2 hold at 11885.5 MD
20863.7	90.0	178.63	10722.0	-1226.2	-1210.0	12.00	-90.00	170.20	Start 20863.7 hold at 20863.7 MD



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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 82894

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82894
	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 82894

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82894
	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