

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. NMNM120895

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

COG PRODUCTION LLC

3a. Address 2208 West Main Street, Artesia, NM 88210

3b. Phone No. (include area code)
(575) 748-6940

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

8. Well Name and No. CABO WABO FEDERAL COM/803H

9. API Well No. 3001547755 49717

10. Field and Pool or Exploratory Area
PURPLE SAGE/WOLFCAMP GAS

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

SEC 24/T25S/R29E/NMP

11. Country or Parish, State

EDDY/NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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.)

COG Production requests that the well number for Cabo Wabo Federal Com 803H (30-015-47755) be changed to 803Y.

While drilling this well we ran into issues with lost returns and the decision was made to P&A. 803Y was P&A 6/20/22.

COG Production requests permission to skid the surface location and redrill as below:

Cabo Wabo Federal Com 803H replacement well

New SHL: 210 ft FNL & 1110 ft FEL, NENE 24-25S-29E Eddy Co.

New FTP: 330 ft FNL & 2478 ft FEL, 24-25S-29E

New LTP: 330 ft FSL & 2478 ft FEL, 25-25S-29E

New BHL: 200 ft FSL & 2478 ft FEL, 25-25S-29E

Please see attached revised C-102, drill and directional plan, & required APD attachments.

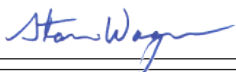
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

STAN WAGNER / Ph: (432) 253-9685

Regulatory Advisor

Title

Signature



Date

07/08/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

Date

07/11/2022

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 CARLSBAD

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- 49717	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 3148'

¹⁰ Surface Location

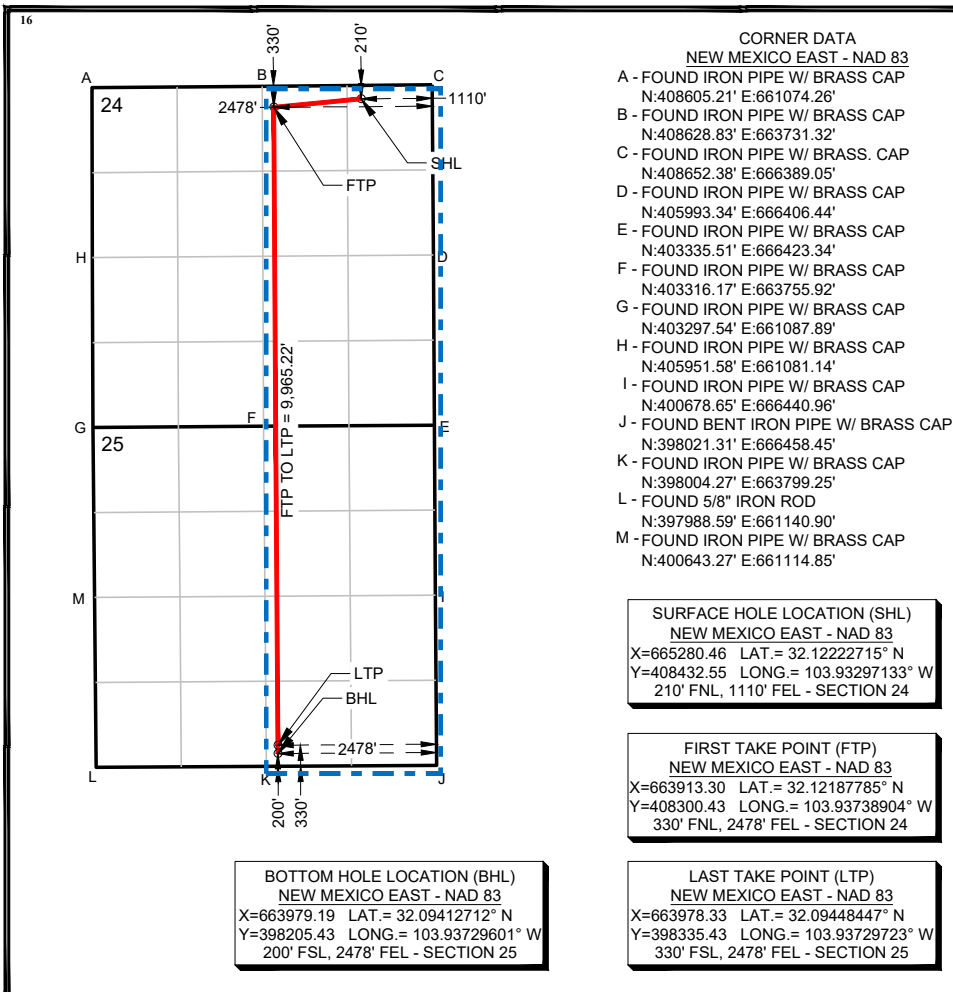
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	1110'	EAST	EDDY

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 Com	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.

Stan Wagner 7/5/22
Signature Date
Stan Wagner
Printed Name
E-mail Address

18 SURVEYOR CERTIFICATION

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

07/01/2022
Date of Survey
Signature and Seal of Professional Surveyor:
Certificate Number

Conocophillips Company - Cabo Wabo Federal Com #803H

1. Geologic Formations

TVD of target	10,700' EOL	Pilot hole depth	NA
MD at TD:	20,731'	Deepest expected fresh water:	50'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	516	Water	
Top of Salt	920	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	10107	Oil/Gas	
Wolfcamp A	10448	Target	
Wolfcamp B	10908	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								
17.50"	0	900	13.38"	54.5	J55	BTC	2.74	8.24	17.39	18.53
9.875"	0	8500	7.625"	29.7	L80 IC	BTC	1.48	1.23	2.71	2.71
8.750"	8500	10150	7.625"	29.7	P110 IC	W513	1.55	1.74	3.12	1.87
6.75"	0	9650	5.5"	20	P110	BTC	1.84	2.50	3.32	3.32
6.75"	9650	20,731	5.5"	20	P110	W441	1.84	2.56	3.41	2.78
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 Company - Cabo Wabo Federal 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 Company - Cabo Wabo Federal Com #803H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	536	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	780	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	448	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1045	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	9,650'	35% OH in Lateral (KOP to EOL)

Conocophillips Company - Cabo Wabo Federal 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"	3M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP and BOPE will be installed per Onshore Order #2 requirements prior to drilling below the surface casing and will be rated to the above pressure rating or greater, see attached diagrams. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

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 valves (inside BOP and full-opening valve) with appropriate wrenches and choke

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 Company - Cabo Wabo Federal 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	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 Company - Cabo Wabo Federal Com #803H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6680 psi at 10700' 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 FEDERAL COM #803H

OWB

PWP0

Anticollision Report

05 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 95.0usft	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	7/5/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
2,000.0	10,363.9	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
10,363.9	20,731.5	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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 24 FEDERAL #5H - OWB - AWP						Out of range
CABO WABO 25 FEDERAL #1H - OWB-PH - AWP						Out of range
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	8,063.5	17,420.0	409.9	230.0	2.279	CC
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	8,075.0	17,420.0	410.1	229.5	2.271	ES
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	8,100.0	17,420.0	411.5	229.7	2.263	SF
CABO WABO 25 FEDERAL COM #3H - OWB-PH - AWP	20,464.0	10,400.0	819.8	727.8	8.915	CC, ES, SF
CABO WABO FEDERAL COM #501H - OWB - PWP1	2,000.0	1,994.0	208.8	201.1	26.855	CC, ES
CABO WABO FEDERAL COM #501H - OWB - PWP1	3,156.0	3,146.6	245.3	233.0	20.009	SF
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,235.6	4,217.2	191.6	175.3	11.798	CC
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,275.0	4,256.2	191.6	175.2	11.693	ES
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,655.0	4,632.6	200.0	182.2	11.238	SF
CABO WABO FEDERAL COM #503H - OWB - PWP1	9,262.7	9,121.4	964.6	926.0	24.946	CC, ES
CABO WABO FEDERAL COM #503H - OWB - PWP1	9,400.0	9,150.0	976.5	936.7	24.521	SF
CABO WABO FEDERAL COM #504H - OWB - PWP1						Out of range
CABO WABO FEDERAL COM #701H - OWB - PWP3	2,000.0	1,992.0	229.9	219.1	21.232	CC, ES
CABO WABO FEDERAL COM #701H - OWB - PWP3	2,660.0	2,639.2	251.1	237.3	18.219	SF
CABO WABO FEDERAL COM #702H - OWB - PWP4	2,000.0	1,993.0	200.0	193.4	30.397	CC, ES
CABO WABO FEDERAL COM #702H - OWB - PWP4	2,660.0	2,647.4	219.7	212.1	28.821	SF
CABO WABO FEDERAL COM #703H - OWB - PWP4	2,000.0	1,991.0	170.0	163.5	25.848	CC, ES
CABO WABO FEDERAL COM #703H - OWB - PWP4	3,100.0	3,104.1	205.0	195.2	20.924	SF
CABO WABO FEDERAL COM #704H - OWB - PWP4	10,678.0	10,721.9	446.7	403.6	10.350	CC
CABO WABO FEDERAL COM #704H - OWB - PWP4	20,731.5	20,718.2	488.7	315.2	2.816	ES, SF
CABO WABO FEDERAL COM #705H - OWB - PWP3	11,105.9	11,130.7	862.5	819.4	20.007	CC
CABO WABO FEDERAL COM #705H - OWB - PWP3	20,731.5	20,756.1	864.4	691.0	4.986	ES, SF
CABO WABO FEDERAL COM #706H - OWB - PWP4						Out of range
CABO WABO FEDERAL COM #801H - OWB - AWP	2,305.0	2,301.8	22.7	12.4	2.208	CC, ES
CABO WABO FEDERAL COM #801H - OWB - AWP	2,375.0	2,371.4	23.6	12.7	2.151	SF
CABO WABO FEDERAL COM #801H - ST01 - AWP	2,297.4	2,294.2	24.2	17.1	3.423	CC
CABO WABO FEDERAL COM #801H - ST01 - AWP	2,300.0	2,296.8	24.2	17.1	3.416	ES
CABO WABO FEDERAL COM #801H - ST01 - AWP	2,375.0	2,371.4	25.3	17.7	3.334	SF
CABO WABO FEDERAL COM #802H - OWB - AWP	0.0	0.0	60.1			
CABO WABO FEDERAL COM #802Y - OWB - PWP0	2,559.0	2,559.9	30.0	22.3	3.919	CC
CABO WABO FEDERAL COM #802Y - OWB - PWP0	3,135.0	3,140.8	31.5	19.4	2.610	ES

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
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Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO FEDERAL COM #802Y - OWB - PWP0	7,600.0	7,605.5	84.8	40.0	1.891	Advise and Monitor, SF
CABO WABO FEDERAL COM #803H - OWB - AWP	985.2	982.4	87.9	81.5	13.748	CC
CABO WABO FEDERAL COM #803H - OWB - AWP	1,000.0	997.0	87.9	81.5	13.648	ES
CABO WABO FEDERAL COM #803H - OWB - AWP	1,200.0	1,195.7	90.2	83.1	12.751	SF
CABO WABO FEDERAL COM #804H - OWB - AWP						Out of range
CABO WABO FEDERAL COM #804H - OWB - PHX3						Out of range
CABO WABO FEDERAL COM #805H - OWB - PWP2						Out of range

ConocoPhillips

Anticollision Report

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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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 24 FEDERAL #5H - OWB - AWP	20,731.5	7,701.0				Out of Range @TD
CABO WABO 25 FEDERAL #1H - OWB-PH - AWP	20,731.5	10,150.0				Out of Range @TD
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	20,731.5	8,062.0				Out of Range @TD
CABO WABO 25 FEDERAL COM #3H - OWB-PH - AWP	20,731.5	10,400.0	862.3	773.1	9.662	
CABO WABO FEDERAL COM #501H - OWB - PWP1	20,731.5	19,063.9				Out of Range @TD
CABO WABO FEDERAL COM #502H - OWB - PWP1	20,731.5	19,070.8				Out of Range @TD
CABO WABO FEDERAL COM #503H - OWB - PWP1	20,731.5	19,035.1				Out of Range @TD
CABO WABO FEDERAL COM #504H - OWB - PWP1	20,731.5	19,033.0				Out of Range @TD
CABO WABO FEDERAL COM #701H - OWB - PWP3	20,731.5	20,757.5				Out of Range @TD
CABO WABO FEDERAL COM #702H - OWB - PWP4	20,731.5	20,931.7				Out of Range @TD
CABO WABO FEDERAL COM #703H - OWB - PWP4	20,731.5	20,713.7				Out of Range @TD
CABO WABO FEDERAL COM #704H - OWB - PWP4	20,731.5	20,718.2	488.7	315.2	2.816	ES, SF
CABO WABO FEDERAL COM #705H - OWB - PWP3	20,731.5	20,756.1	864.4	691.0	4.986	ES, SF
CABO WABO FEDERAL COM #706H - OWB - PWP4	20,731.5	20,673.1				Out of Range @TD
CABO WABO FEDERAL COM #801H - OWB - AWP	20,731.5	10,169.0				Out of Range @TD
CABO WABO FEDERAL COM #801H - ST01 - AWP	20,731.5	20,769.0	794.7	630.6	4.841	
CABO WABO FEDERAL COM #802H - OWB - AWP	20,731.5	682.0				Out of Range @TD
CABO WABO FEDERAL COM #802Y - OWB - PWP0	20,731.5	20,522.7	445.7	279.1	2.675	
CABO WABO FEDERAL COM #803H - OWB - AWP	20,731.5	1,336.0				Out of Range @TD
CABO WABO FEDERAL COM #804H - OWB - AWP	20,731.5	10,075.0				Out of Range @TD
CABO WABO FEDERAL COM #804H - OWB - PHX3	20,731.5	20,846.4				Out of Range @TD
CABO WABO FEDERAL COM #805H - OWB - PWP2	20,731.5	20,708.5				Out of Range @TD

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - AWP													Offset Site Error: 3.0 usft	
Survey Program: 25-VESSI_INFLEX_GYRO, 7336-MWD									Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis					Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,200.0	7,104.7	17,420.0	7,944.9	21.1	161.1	-163.07	-156.6	-693.9	955.9	859.3	96.62	9.893		
7,220.0	7,124.2	17,420.0	7,944.9	21.2	161.1	-163.07	-156.6	-693.9	937.8	840.6	97.22	9.647		
7,300.0	7,202.5	17,420.0	7,944.9	21.5	161.1	-163.07	-156.6	-693.9	866.6	766.6	100.02	8.665		
7,315.0	7,217.2	17,420.0	7,944.9	21.5	161.1	-163.07	-156.6	-693.9	853.4	752.8	100.62	8.481		
7,400.0	7,300.3	17,420.0	7,944.9	21.8	161.1	-163.07	-156.6	-693.9	779.9	675.3	104.66	7.452		
7,410.0	7,310.1	17,420.0	7,944.9	21.9	161.1	-163.07	-156.6	-693.9	771.4	666.2	105.21	7.332		
7,500.0	7,398.1	17,420.0	7,944.9	22.2	161.1	-163.07	-156.6	-693.9	696.8	585.8	111.01	6.277		
7,505.0	7,403.0	17,420.0	7,944.9	22.2	161.1	-163.07	-156.6	-693.9	692.8	581.4	111.39	6.220		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - AWP											Offset Site Error:	3.0 usft
Survey Program: 25-VESSE_INFLEX_GYRO, 7336-MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
7,600.0	7,495.9	17,420.0	7,944.9	22.6	161.1	-163.07	-156.6	-693.9	618.8	499.2	119.61	5.173
7,695.0	7,588.9	17,420.0	7,944.9	22.9	161.1	-163.07	-156.6	-693.9	551.2	420.9	130.29	4.231
7,700.0	7,593.8	17,420.0	7,944.9	23.0	161.1	-163.07	-156.6	-693.9	547.9	417.0	130.92	4.185
7,790.0	7,681.8	17,420.0	7,944.9	23.3	161.1	-163.07	-156.6	-693.9	492.8	349.3	143.45	3.435
7,800.0	7,691.6	17,420.0	7,944.9	23.3	161.1	-163.07	-156.6	-693.9	487.3	342.4	144.95	3.362
7,885.0	7,774.7	17,420.0	7,944.9	23.7	161.1	-163.07	-156.6	-693.9	447.1	289.0	158.10	2.828
7,900.0	7,789.4	17,420.0	7,944.9	23.7	161.1	-163.07	-156.6	-693.9	441.3	280.9	160.40	2.751
7,980.0	7,867.6	17,420.0	7,944.9	24.0	161.1	-163.07	-156.6	-693.9	418.3	246.6	171.69	2.437
8,000.0	7,887.2	17,420.0	7,944.9	24.1	161.1	-163.07	-156.6	-693.9	414.8	240.7	174.07	2.383
8,063.5	7,949.3	17,420.0	7,944.9	24.3	161.1	-163.07	-156.6	-693.9	409.9	230.0	179.88	2.279 CC
8,075.0	7,960.6	17,420.0	7,944.9	24.4	161.1	-163.07	-156.6	-693.9	410.1	229.5	180.61	2.271 ES
8,100.0	7,985.0	17,420.0	7,944.9	24.5	161.1	-163.07	-156.6	-693.9	411.5	229.7	181.82	2.263 SF
8,170.0	8,053.5	17,420.0	7,944.9	24.7	161.1	-163.07	-156.6	-693.9	423.5	240.9	182.58	2.320
8,200.0	8,082.8	17,420.0	7,944.9	24.9	161.1	-163.07	-156.6	-693.9	432.0	250.2	181.82	2.376
8,265.0	8,146.4	17,420.0	7,944.9	25.1	161.1	-163.07	-156.6	-693.9	456.7	278.3	178.45	2.559
8,300.0	8,180.6	17,420.0	7,944.9	25.2	161.1	-163.07	-156.6	-693.9	473.2	297.3	175.94	2.690
8,360.0	8,239.3	17,420.0	7,944.9	25.5	161.1	-163.07	-156.6	-693.9	505.9	334.9	170.98	2.959
8,400.0	8,278.5	17,420.0	7,944.9	25.6	161.1	-163.07	-156.6	-693.9	530.3	362.9	167.46	3.167
8,455.0	8,332.3	17,420.0	7,944.9	25.8	161.1	-163.07	-156.6	-693.9	566.8	404.2	162.62	3.485
8,500.0	8,376.3	17,420.0	7,944.9	26.0	161.1	-163.07	-156.6	-693.9	598.8	440.0	158.79	3.771
8,550.0	8,425.2	17,420.0	7,944.9	26.2	161.1	-163.07	-156.6	-693.9	636.1	481.4	154.75	4.111
8,600.0	8,474.1	17,420.0	7,944.9	26.4	161.1	-163.07	-156.6	-693.9	675.2	524.2	151.00	4.471
8,645.0	8,518.1	17,420.0	7,944.9	26.5	161.1	-163.07	-156.6	-693.9	711.4	563.6	147.88	4.811
8,700.0	8,571.9	17,420.0	7,944.9	26.7	161.1	-163.07	-156.6	-693.9	757.1	612.6	144.41	5.242
8,740.0	8,611.0	17,420.0	7,944.9	26.9	161.1	-163.07	-156.6	-693.9	791.0	648.9	142.10	5.566
8,800.0	8,669.7	17,420.0	7,944.9	27.1	161.1	-163.07	-156.6	-693.9	842.9	703.9	138.96	6.066
8,835.0	8,704.0	17,420.0	7,944.9	27.3	161.1	-163.07	-156.6	-693.9	873.6	736.3	137.29	6.363
8,900.0	8,767.5	17,420.0	7,944.9	27.5	161.1	-163.07	-156.6	-693.9	931.5	797.0	134.49	6.926
8,930.0	8,796.9	17,420.0	7,944.9	27.6	161.1	-163.07	-156.6	-693.9	958.5	825.2	133.32	7.190

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL COM #3H - OWB-PH - AWP												Offset Site Error:	3.0 usft
Survey Program: 25-VESI_INFLX_GYRO												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,900.0	10,700.0	10,400.0	10,398.3	78.9	9.1	-74.75	-9,954.4	-512.4	995.1	915.5	79.57	12.506	
19,950.0	10,700.0	10,400.0	10,398.3	79.2	9.1	-74.75	-9,954.4	-512.4	967.6	886.5	81.12	11.929	
20,000.0	10,700.0	10,400.0	10,398.3	79.6	9.1	-74.75	-9,954.4	-512.4	942.0	859.4	82.66	11.397	
20,045.0	10,700.0	10,400.0	10,398.3	79.9	9.1	-74.75	-9,954.4	-512.4	920.7	836.7	84.02	10.958	
20,100.0	10,700.0	10,400.0	10,398.3	80.3	9.1	-74.75	-9,954.4	-512.4	897.0	811.4	85.63	10.475	
20,140.0	10,700.0	10,400.0	10,398.3	80.5	9.1	-74.75	-9,954.4	-512.4	881.5	794.8	86.74	10.163	
20,200.0	10,700.0	10,400.0	10,398.3	81.0	9.1	-74.75	-9,954.4	-512.4	861.3	773.0	88.27	9.757	
20,235.0	10,700.0	10,400.0	10,398.3	81.2	9.1	-74.75	-9,954.4	-512.4	851.2	762.1	89.07	9.556	
20,300.0	10,700.0	10,400.0	10,398.3	81.7	9.1	-74.75	-9,954.4	-512.4	836.0	745.7	90.35	9.254	
20,330.0	10,700.0	10,400.0	10,398.3	81.9	9.1	-74.75	-9,954.4	-512.4	830.7	739.9	90.82	9.146	
20,400.0	10,700.0	10,400.0	10,398.3	82.4	9.1	-74.75	-9,954.4	-512.4	822.3	730.7	91.63	8.974	
20,425.0	10,700.0	10,400.0	10,398.3	82.5	9.1	-74.75	-9,954.4	-512.4	820.7	728.9	91.81	8.940	
20,464.0	10,700.0	10,400.0	10,398.3	82.8	9.1	-74.75	-9,954.4	-512.4	819.8	727.8	91.96	8.915	CC, ES, SF
20,500.0	10,700.0	10,400.0	10,398.3	83.1	9.1	-74.75	-9,954.4	-512.4	820.6	728.6	91.97	8.922	
20,520.0	10,700.0	10,400.0	10,398.3	83.2	9.1	-74.75	-9,954.4	-512.4	821.7	729.8	91.92	8.939	
20,601.5	10,700.0	10,400.0	10,398.3	83.8	9.1	-74.75	-9,954.4	-512.4	831.2	739.9	91.33	9.101	
20,615.0	10,700.0	10,400.0	10,398.3	83.9	9.1	-74.75	-9,954.4	-512.4	833.6	742.4	91.18	9.143	
20,700.0	10,700.0	10,400.0	10,398.3	84.5	9.1	-74.75	-9,954.4	-512.4	853.1	763.2	89.86	9.493	
20,710.0	10,700.0	10,400.0	10,398.3	84.5	9.1	-74.75	-9,954.4	-512.4	855.9	766.2	89.67	9.545	
20,731.5	10,700.0	10,400.0	10,398.3	84.7	9.1	-74.75	-9,954.4	-512.4	862.3	773.1	89.25	9.662	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8512-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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		
0.0	0.0	0.0	0.0	3.0	3.0	-163.69	-200.4	-58.6	208.9					
95.0	95.0	89.0	89.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.00	34.802		
100.0	100.0	94.0	94.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.00	34.801		
190.0	190.0	184.0	184.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.01	34.758		
200.0	200.0	194.0	194.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.01	34.750		
285.0	285.0	279.0	279.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.03	34.657		
300.0	300.0	294.0	294.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.03	34.636		
380.0	380.0	374.0	374.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.05	34.501		
400.0	400.0	394.0	394.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.8	6.06	34.462		
475.0	475.0	469.0	469.0	3.0	3.0	-163.69	-200.4	-58.6	208.8	202.7	6.09	34.293		
500.0	500.0	494.0	494.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.7	6.10	34.229		
570.0	570.0	564.0	564.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.7	6.14	34.034		
600.0	600.0	594.0	594.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.7	6.15	33.942		
665.0	665.0	659.0	659.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.6	6.19	33.729		
700.0	700.0	694.0	694.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.6	6.21	33.606		
760.0	760.0	754.0	754.0	3.1	3.1	-163.69	-200.4	-58.6	208.8	202.6	6.26	33.381		
800.0	800.0	794.0	794.0	3.2	3.2	-163.69	-200.4	-58.6	208.8	202.5	6.29	33.223		
855.0	855.0	849.0	849.0	3.2	3.2	-163.69	-200.4	-58.6	208.8	202.5	6.33	32.995		
900.0	900.0	894.0	894.0	3.2	3.2	-163.69	-200.4	-58.6	208.8	202.5	6.37	32.800		
950.0	950.0	944.0	944.0	3.2	3.2	-163.69	-200.4	-58.6	208.8	202.4	6.41	32.575		
1,000.0	1,000.0	994.0	994.0	3.2	3.2	-163.69	-200.4	-58.6	208.8	202.4	6.46	32.342		
1,045.0	1,045.0	1,039.0	1,039.0	3.3	3.3	-163.69	-200.4	-58.6	208.8	202.3	6.50	32.126		
1,100.0	1,100.0	1,094.0	1,094.0	3.3	3.3	-163.69	-200.4	-58.6	208.8	202.3	6.56	31.854		
1,140.0	1,140.0	1,134.0	1,134.0	3.3	3.3	-163.69	-200.4	-58.6	208.8	202.2	6.60	31.652		
1,200.0	1,200.0	1,194.0	1,194.0	3.4	3.3	-163.69	-200.4	-58.6	208.8	202.2	6.66	31.341		
1,235.0	1,235.0	1,229.0	1,229.0	3.4	3.4	-163.69	-200.4	-58.6	208.8	202.1	6.70	31.157		
1,300.0	1,300.0	1,294.0	1,294.0	3.4	3.4	-163.69	-200.4	-58.6	208.8	202.1	6.78	30.808		
1,330.0	1,330.0	1,324.0	1,324.0	3.4	3.4	-163.69	-200.4	-58.6	208.8	202.0	6.81	30.645		
1,400.0	1,400.0	1,394.0	1,394.0	3.5	3.5	-163.69	-200.4	-58.6	208.8	201.9	6.90	30.260		
1,425.0	1,425.0	1,419.0	1,419.0	3.5	3.5	-163.69	-200.4	-58.6	208.8	201.9	6.93	30.121		
1,500.0	1,500.0	1,494.0	1,494.0	3.5	3.5	-163.69	-200.4	-58.6	208.8	201.8	7.03	29.700		
1,520.0	1,520.0	1,514.0	1,514.0	3.6	3.6	-163.69	-200.4	-58.6	208.8	201.8	7.06	29.587		
1,600.0	1,600.0	1,594.0	1,594.0	3.6	3.6	-163.69	-200.4	-58.6	208.8	201.7	7.17	29.133		
1,615.0	1,615.0	1,609.0	1,609.0	3.6	3.6	-163.69	-200.4	-58.6	208.8	201.6	7.19	29.047		
1,700.0	1,700.0	1,694.0	1,694.0	3.7	3.7	-163.69	-200.4	-58.6	208.8	201.5	7.31	28.562		
1,710.0	1,710.0	1,704.0	1,704.0	3.7	3.7	-163.69	-200.4	-58.6	208.8	201.5	7.33	28.505		
1,800.0	1,800.0	1,794.0	1,794.0	3.8	3.8	-163.69	-200.4	-58.6	208.8	201.4	7.46	27.990		
1,805.0	1,805.0	1,799.0	1,799.0	3.8	3.8	-163.69	-200.4	-58.6	208.8	201.4	7.47	27.962		
1,900.0	1,900.0	1,894.0	1,894.0	3.9	3.8	-163.69	-200.4	-58.6	208.8	201.2	7.62	27.421		
1,995.0	1,995.0	1,989.0	1,989.0	3.9	3.9	-163.69	-200.4	-58.6	208.8	201.1	7.77	26.883		
2,000.0	2,000.0	1,994.0	1,994.0	3.9	3.9	-163.69	-200.4	-58.6	208.8	201.1	7.78	26.855 CC, ES		
2,090.0	2,090.0	2,084.0	2,084.0	4.1	4.0	-148.88	-200.4	-58.6	210.0	202.0	8.04	26.118		
2,100.0	2,100.0	2,094.0	2,094.0	4.2	4.0	-148.93	-200.4	-58.6	210.3	202.2	8.07	26.054		
2,185.0	2,184.9	2,178.9	2,178.9	4.7	4.1	-149.47	-200.4	-58.6	214.0	205.3	8.69	24.628		
2,200.0	2,199.8	2,193.8	2,193.8	4.8	4.1	-149.60	-200.4	-58.6	214.8	206.0	8.80	24.404		
2,250.0	2,249.7	2,243.7	2,243.7	4.9	4.2	-150.09	-200.4	-58.6	218.2	209.3	8.96	24.356		
2,280.0	2,279.6	2,273.6	2,273.6	5.0	4.2	-150.43	-200.4	-58.6	220.5	211.5	9.02	24.445		
2,300.0	2,299.5	2,293.5	2,293.5	5.0	4.2	-150.65	-200.4	-58.6	222.0	212.9	9.06	24.505		
2,375.0	2,374.2	2,368.2	2,368.2	5.1	4.3	-151.45	-200.4	-58.6	227.7	218.5	9.23	24.682		
2,400.0	2,399.1	2,393.1	2,393.1	5.1	4.3	-151.71	-200.4	-58.6	229.7	220.4	9.28	24.735		
2,470.0	2,468.8	2,462.8	2,462.8	5.2	4.4	-152.42	-200.4	-58.6	235.0	225.6	9.48	24.807		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #501H - OWB - PWP1											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8512-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
2,500.0	2,498.7	2,492.7	2,492.7	5.3	4.4	-152.71	-200.4	-58.6	237.4	227.8	9.56	24.834
2,535.0	2,533.6	2,528.9	2,528.9	5.3	4.4	-153.08	-200.4	-58.5	240.0	230.4	9.64	24.908
2,565.0	2,563.5	2,560.1	2,560.1	5.3	4.4	-146.69	-200.2	-58.0	242.0	232.3	9.71	24.911
2,600.0	2,598.4	2,596.6	2,596.6	5.4	4.5	-139.05	-199.9	-57.1	243.9	234.0	9.81	24.859
2,660.0	2,658.1	2,658.9	2,658.8	5.6	4.5	-126.41	-198.9	-54.5	245.9	235.8	10.12	24.306
2,700.0	2,698.0	2,700.3	2,700.1	5.8	4.5	-118.95	-198.0	-52.1	246.6	236.3	10.33	23.882
2,755.0	2,752.8	2,756.2	2,755.8	6.1	4.6	-110.56	-196.5	-47.9	246.8	236.1	10.68	23.099
2,800.0	2,797.5	2,800.5	2,800.0	6.4	4.6	-105.25	-195.3	-44.5	246.6	235.6	10.97	22.479
2,850.0	2,847.2	2,849.6	2,849.0	6.6	4.6	-100.89	-193.9	-40.6	246.2	235.0	11.23	21.926
2,900.0	2,896.8	2,898.6	2,897.8	6.9	4.6	-97.91	-192.5	-36.8	245.7	234.2	11.49	21.388
2,945.0	2,941.4	2,942.6	2,941.6	7.0	4.7	-96.22	-191.2	-33.3	245.2	233.6	11.67	21.018
3,000.0	2,995.7	2,996.1	2,994.9	7.2	4.7	-95.18	-189.7	-29.2	244.8	232.9	11.88	20.598
3,040.0	3,035.2	3,034.9	3,033.5	7.4	4.7	-95.02	-188.6	-26.1	244.6	232.6	12.00	20.387
3,062.9	3,057.7	3,057.0	3,055.6	7.4	4.7	-95.12	-188.0	-24.4	244.5	232.5	12.06	20.271
3,100.0	3,094.2	3,092.8	3,091.3	7.6	4.8	-95.54	-186.9	-21.6	244.6	232.5	12.18	20.090
3,135.0	3,128.5	3,126.4	3,124.8	7.6	4.8	-96.21	-186.0	-19.0	245.0	232.7	12.23	20.030
3,156.0	3,149.1	3,146.6	3,144.9	7.7	4.8	-96.72	-185.4	-17.4	245.3	233.0	12.26	20.009 SF
3,200.0	3,192.1	3,188.7	3,186.9	7.8	4.8	-99.53	-184.2	-14.1	246.4	234.1	12.30	20.035
3,230.0	3,221.4	3,217.4	3,215.5	7.8	4.8	-101.43	-183.4	-11.8	247.5	235.1	12.32	20.081
3,300.0	3,289.9	3,284.5	3,282.3	8.0	4.9	-105.80	-181.5	-6.6	251.2	238.8	12.37	20.306
3,325.0	3,314.4	3,308.4	3,306.2	8.0	4.9	-107.32	-180.8	-4.7	252.9	240.5	12.39	20.411
3,400.0	3,387.7	3,380.3	3,377.8	8.2	5.0	-111.78	-178.8	0.9	259.1	246.7	12.44	20.827
3,420.0	3,407.3	3,399.4	3,396.9	8.3	5.0	-112.93	-178.2	2.4	261.1	248.6	12.46	20.958
3,500.0	3,485.5	3,476.0	3,473.2	8.5	5.0	-117.38	-176.0	8.4	269.9	257.4	12.52	21.564
3,515.0	3,500.2	3,490.4	3,487.5	8.5	5.0	-118.18	-175.6	9.5	271.7	259.2	12.53	21.688
3,600.0	3,583.3	3,571.8	3,568.7	8.7	5.1	-122.53	-173.3	15.9	283.2	270.6	12.61	22.455
3,610.0	3,593.1	3,581.4	3,578.2	8.8	5.1	-123.02	-173.0	16.6	284.6	272.0	12.62	22.550
3,700.0	3,681.2	3,667.6	3,664.1	9.0	5.2	-127.21	-170.6	23.4	298.7	285.9	12.74	23.446
3,705.0	3,686.0	3,672.4	3,668.9	9.0	5.2	-127.43	-170.4	23.8	299.5	286.7	12.75	23.497
3,800.0	3,779.0	3,763.4	3,759.6	9.3	5.3	-131.43	-167.8	30.9	316.0	303.1	12.90	24.491
3,895.0	3,871.9	3,854.4	3,850.2	9.6	5.3	-135.04	-165.3	38.0	333.9	320.8	13.10	25.500
3,900.0	3,876.8	3,859.2	3,855.0	9.6	5.3	-135.22	-165.1	38.4	334.9	321.8	13.11	25.553
3,990.0	3,964.8	3,945.4	3,940.9	9.8	5.4	-138.28	-162.7	45.1	353.1	339.8	13.32	26.503
4,000.0	3,974.6	3,955.0	3,950.5	9.9	5.4	-138.60	-162.4	45.9	355.2	341.8	13.35	26.607
4,085.0	4,057.7	4,036.4	4,031.6	10.1	5.5	-141.20	-160.1	52.2	373.2	359.6	13.58	27.484
4,100.0	4,072.4	4,050.7	4,045.9	10.2	5.5	-141.63	-159.7	53.4	376.5	362.9	13.62	27.637
4,180.0	4,150.7	4,127.4	4,122.3	10.4	5.6	-143.82	-157.5	59.4	394.2	380.4	13.86	28.435
4,200.0	4,170.2	4,146.5	4,141.4	10.5	5.6	-144.34	-156.9	60.9	398.8	384.8	13.93	28.631
4,275.0	4,243.6	4,218.4	4,212.9	10.7	5.6	-146.18	-154.9	66.5	416.0	401.8	14.17	29.350
4,300.0	4,268.0	4,242.3	4,236.8	10.8	5.7	-146.76	-154.2	68.3	421.8	407.6	14.26	29.585
4,370.0	4,336.5	4,309.3	4,303.6	11.0	5.7	-148.31	-152.3	73.6	438.4	423.9	14.50	30.226
4,400.0	4,365.9	4,338.1	4,332.3	11.1	5.8	-148.94	-151.5	75.8	445.5	430.9	14.61	30.495
4,465.0	4,429.4	4,400.3	4,394.3	11.3	5.8	-150.24	-149.7	80.7	461.3	446.4	14.85	31.062
4,500.0	4,463.7	4,433.9	4,427.7	11.4	5.8	-150.90	-148.8	83.3	469.8	454.8	14.98	31.361
4,560.0	4,522.4	4,491.3	4,485.0	11.6	5.9	-151.99	-147.1	87.8	484.6	469.4	15.21	31.859
4,600.0	4,561.5	4,529.6	4,523.1	11.8	5.9	-152.67	-146.0	90.8	494.6	479.2	15.37	32.184
4,655.0	4,615.3	4,582.3	4,575.6	11.9	6.0	-153.57	-144.5	94.9	508.4	492.8	15.59	32.618
4,700.0	4,659.3	4,625.4	4,618.6	12.1	6.0	-154.28	-143.3	98.3	519.7	504.0	15.77	32.965
4,750.0	4,708.2	4,673.3	4,666.3	12.3	6.1	-155.02	-141.9	102.1	532.4	516.5	15.97	33.341
4,800.0	4,757.1	4,721.2	4,714.0	12.4	6.1	-155.73	-140.6	105.8	545.2	529.1	16.18	33.707
4,845.0	4,801.1	4,764.3	4,757.0	12.6	6.2	-156.35	-139.3	109.2	556.8	540.5	16.36	34.028

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8512-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.0	4,854.9	4,817.0	4,809.5	12.8	6.2	-157.06	-137.8	113.3	571.1	554.5	16.60	34.412	
4,940.0	4,894.1	4,855.3	4,847.7	12.9	6.3	-157.56	-136.7	116.3	581.5	564.7	16.77	34.683	
5,000.0	4,952.8	4,912.8	4,904.9	13.1	6.3	-158.28	-135.1	120.8	597.2	580.1	17.02	35.081	
5,035.0	4,987.0	4,946.3	4,938.3	13.2	6.3	-158.68	-134.2	123.4	606.4	589.2	17.17	35.307	
5,100.0	5,050.6	5,008.5	5,000.4	13.5	6.4	-159.39	-132.4	128.3	623.5	606.0	17.46	35.717	
5,130.0	5,079.9	5,037.3	5,029.0	13.6	6.4	-159.71	-131.6	130.5	631.4	613.8	17.59	35.901	
5,200.0	5,148.4	5,104.3	5,095.8	13.8	6.5	-160.42	-129.7	135.8	650.0	632.1	17.90	36.322	
5,225.0	5,172.8	5,128.3	5,119.7	13.9	6.5	-160.66	-129.0	137.7	656.7	638.7	18.01	36.468	
5,300.0	5,246.2	5,200.1	5,191.3	14.2	6.6	-161.36	-126.9	143.3	676.7	658.4	18.34	36.897	
5,320.0	5,265.8	5,219.3	5,210.4	14.2	6.6	-161.54	-126.4	144.8	682.1	663.7	18.43	37.009	
5,400.0	5,344.0	5,295.9	5,286.7	14.5	6.7	-162.24	-124.2	150.8	703.6	684.8	18.79	37.445	
5,415.0	5,358.7	5,310.3	5,301.1	14.6	6.7	-162.36	-123.8	151.9	707.6	688.8	18.86	37.525	
5,500.0	5,441.8	5,391.7	5,382.2	14.9	6.8	-163.05	-121.5	158.3	730.6	711.4	19.24	37.968	
5,510.0	5,451.6	5,401.3	5,391.7	14.9	6.8	-163.12	-121.2	159.0	733.3	714.0	19.29	38.019	
5,600.0	5,539.6	5,487.5	5,477.6	15.2	6.9	-163.80	-118.7	165.8	757.7	738.0	19.70	38.466	
5,605.0	5,544.5	5,492.2	5,482.4	15.2	6.9	-163.84	-118.6	166.1	759.1	739.4	19.72	38.490	
5,700.0	5,637.5	5,583.2	5,573.1	15.6	7.0	-164.50	-116.0	173.3	785.0	764.8	20.16	38.942	
5,795.0	5,730.4	5,674.2	5,663.8	15.9	7.1	-165.12	-113.4	180.4	811.0	790.4	20.60	39.374	
5,800.0	5,735.3	5,679.0	5,668.5	15.9	7.1	-165.16	-113.3	180.8	812.4	791.7	20.62	39.396	
5,890.0	5,823.3	5,765.2	5,754.4	16.3	7.2	-165.71	-110.8	187.5	837.1	816.0	21.04	39.787	
5,900.0	5,833.1	5,774.8	5,764.0	16.3	7.2	-165.77	-110.6	188.2	839.8	818.7	21.08	39.830	
5,985.0	5,916.2	5,856.2	5,845.1	16.6	7.3	-166.26	-108.2	194.6	863.2	841.7	21.48	40.184	
6,000.0	5,930.9	5,870.6	5,859.4	16.7	7.3	-166.34	-107.8	195.7	867.3	845.8	21.55	40.245	
6,080.0	6,009.2	5,947.2	5,935.8	17.0	7.4	-166.77	-105.6	201.7	889.4	867.5	21.93	40.565	
6,100.0	6,028.7	5,966.4	5,954.9	17.0	7.4	-166.88	-105.1	203.2	894.9	872.9	22.02	40.643	
6,175.0	6,102.1	6,038.2	6,026.5	17.3	7.5	-167.26	-103.1	208.9	915.7	893.3	22.37	40.930	
6,200.0	6,126.5	6,062.1	6,050.3	17.4	7.5	-167.39	-102.4	210.7	922.6	900.1	22.49	41.024	
6,270.0	6,195.0	6,129.2	6,117.1	17.6	7.6	-167.72	-100.5	216.0	942.0	919.2	22.82	41.281	
6,300.0	6,224.3	6,157.9	6,145.8	17.8	7.6	-167.86	-99.6	218.2	950.4	927.4	22.96	41.389	
6,365.0	6,287.9	6,220.2	6,207.8	18.0	7.7	-168.16	-97.9	223.1	968.4	945.1	23.27	41.618	
6,400.0	6,322.2	6,253.7	6,241.2	18.1	7.7	-168.31	-96.9	225.7	978.2	954.7	23.43	41.739	
6,460.0	6,380.8	6,311.2	6,298.5	18.3	7.8	-168.57	-95.3	230.2	994.9	971.1	23.72	41.942	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-156.19	-200.9	-88.6	219.6					
95.0	95.0	89.0	89.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.00	36.588		
100.0	100.0	94.0	94.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.00	36.587		
190.0	190.0	184.0	184.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.01	36.545		
200.0	200.0	194.0	194.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.01	36.537		
285.0	285.0	279.0	279.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.02	36.445		
300.0	300.0	294.0	294.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.03	36.425		
380.0	380.0	374.0	374.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.05	36.292		
400.0	400.0	394.0	394.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.06	36.253		
475.0	475.0	469.0	469.0	3.0	3.0	-156.19	-200.9	-88.6	219.5	213.5	6.08	36.086		
500.0	500.0	494.0	494.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.5	6.09	36.024		
570.0	570.0	564.0	564.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.4	6.13	35.831		
600.0	600.0	594.0	594.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.4	6.14	35.740		
665.0	665.0	659.0	659.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.4	6.18	35.529		
700.0	700.0	694.0	694.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.3	6.20	35.407		
760.0	760.0	754.0	754.0	3.1	3.1	-156.19	-200.9	-88.6	219.5	213.3	6.24	35.185		
800.0	800.0	794.0	794.0	3.2	3.2	-156.19	-200.9	-88.6	219.5	213.3	6.27	35.028		
855.0	855.0	849.0	849.0	3.2	3.2	-156.19	-200.9	-88.6	219.5	213.2	6.31	34.802		
900.0	900.0	894.0	894.0	3.2	3.2	-156.19	-200.9	-88.6	219.5	213.2	6.34	34.608		
950.0	950.0	944.0	944.0	3.2	3.2	-156.19	-200.9	-88.6	219.5	213.2	6.39	34.384		
1,000.0	1,000.0	994.0	994.0	3.2	3.2	-156.19	-200.9	-88.6	219.5	213.1	6.43	34.152		
1,045.0	1,045.0	1,039.0	1,039.0	3.3	3.3	-156.19	-200.9	-88.6	219.5	213.1	6.47	33.936		
1,100.0	1,100.0	1,094.0	1,094.0	3.3	3.3	-156.19	-200.9	-88.6	219.5	213.0	6.52	33.665		
1,140.0	1,140.0	1,134.0	1,134.0	3.3	3.3	-156.19	-200.9	-88.6	219.5	213.0	6.56	33.462		
1,200.0	1,200.0	1,194.0	1,194.0	3.4	3.3	-156.19	-200.9	-88.6	219.5	212.9	6.62	33.151		
1,235.0	1,235.0	1,229.0	1,229.0	3.4	3.4	-156.19	-200.9	-88.6	219.5	212.9	6.66	32.966		
1,300.0	1,300.0	1,294.0	1,294.0	3.4	3.4	-156.19	-200.9	-88.6	219.5	212.8	6.73	32.616		
1,330.0	1,330.0	1,324.0	1,324.0	3.4	3.4	-156.19	-200.9	-88.6	219.5	212.8	6.77	32.452		
1,400.0	1,400.0	1,394.0	1,394.0	3.5	3.5	-156.19	-200.9	-88.6	219.5	212.7	6.85	32.065		
1,425.0	1,425.0	1,419.0	1,419.0	3.5	3.5	-156.19	-200.9	-88.6	219.5	212.7	6.88	31.924		
1,500.0	1,500.0	1,494.0	1,494.0	3.5	3.5	-156.19	-200.9	-88.6	219.5	212.6	6.97	31.500		
1,520.0	1,520.0	1,514.0	1,514.0	3.6	3.6	-156.19	-200.9	-88.6	219.5	212.5	7.00	31.386		
1,600.0	1,600.0	1,594.0	1,594.0	3.6	3.6	-156.19	-200.9	-88.6	219.5	212.4	7.10	30.926		
1,615.0	1,615.0	1,609.0	1,609.0	3.6	3.6	-156.19	-200.9	-88.6	219.5	212.4	7.12	30.840		
1,700.0	1,700.0	1,694.0	1,694.0	3.7	3.7	-156.19	-200.9	-88.6	219.5	212.3	7.23	30.347		
1,710.0	1,710.0	1,704.0	1,704.0	3.7	3.7	-156.19	-200.9	-88.6	219.5	212.3	7.25	30.289		
1,800.0	1,800.0	1,794.0	1,794.0	3.8	3.8	-156.19	-200.9	-88.6	219.5	212.2	7.38	29.766		
1,805.0	1,805.0	1,799.0	1,799.0	3.8	3.8	-156.19	-200.9	-88.6	219.5	212.2	7.38	29.737		
1,900.0	1,900.0	1,894.0	1,894.0	3.9	3.8	-156.19	-200.9	-88.6	219.5	212.0	7.52	29.185		
1,995.0	1,995.0	1,989.0	1,989.0	3.9	3.9	-156.19	-200.9	-88.6	219.5	211.9	7.67	28.636		
2,000.0	2,000.0	1,994.0	1,994.0	3.9	3.9	-156.19	-200.9	-88.6	219.5	211.9	7.67	28.607		
2,090.0	2,090.0	2,084.0	2,084.0	4.1	4.0	-141.41	-200.9	-88.6	220.6	212.7	7.92	27.844		
2,100.0	2,100.0	2,094.0	2,094.0	4.2	4.0	-141.46	-200.9	-88.6	220.9	213.0	7.95	27.775		
2,185.0	2,184.9	2,178.9	2,178.9	4.7	4.1	-142.09	-200.9	-88.6	224.2	215.7	8.53	26.276		
2,200.0	2,199.8	2,193.8	2,193.8	4.8	4.1	-142.24	-200.9	-88.6	225.0	216.4	8.64	26.035		
2,250.0	2,249.7	2,243.7	2,243.7	4.9	4.2	-142.80	-200.9	-88.6	228.1	219.3	8.80	25.928		
2,280.0	2,279.6	2,273.6	2,273.6	5.0	4.2	-143.19	-200.9	-88.6	230.2	221.4	8.86	25.979		
2,300.0	2,299.5	2,293.5	2,293.5	5.0	4.2	-143.45	-200.9	-88.6	231.6	222.7	8.90	26.013		
2,375.0	2,374.2	2,368.2	2,368.2	5.1	4.3	-144.39	-200.9	-88.6	236.9	227.8	9.08	26.090		
2,400.0	2,399.1	2,393.1	2,393.1	5.1	4.3	-144.70	-200.9	-88.6	238.7	229.6	9.14	26.108		
2,470.0	2,468.8	2,462.8	2,462.8	5.2	4.4	-145.52	-200.9	-88.6	243.7	234.4	9.34	26.082		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
2,500.0	2,498.7	2,492.7	2,492.7	5.3	4.4	-145.87	-200.9	-88.6	245.9	236.4	9.43	26.068		
2,535.0	2,533.6	2,527.7	2,527.7	5.3	4.4	-146.23	-200.8	-88.8	248.4	238.9	9.51	26.119		
2,565.0	2,563.5	2,557.6	2,557.6	5.3	4.4	-139.68	-200.7	-89.2	250.5	240.9	9.59	26.128		
2,600.0	2,598.4	2,592.6	2,592.6	5.4	4.5	-131.66	-200.3	-90.0	252.5	242.9	9.67	26.113		
2,660.0	2,658.1	2,652.7	2,652.7	5.6	4.5	-117.91	-199.5	-92.5	255.3	245.3	9.97	25.600		
2,700.0	2,698.0	2,692.9	2,692.7	5.8	4.5	-109.39	-198.6	-94.7	256.6	246.4	10.18	25.203		
2,755.0	2,752.8	2,748.1	2,747.7	6.1	4.5	-99.14	-197.2	-98.7	257.7	247.2	10.53	24.473		
2,800.0	2,797.5	2,793.1	2,792.6	6.4	4.6	-92.20	-195.8	-102.4	258.0	247.1	10.82	23.842		
2,850.0	2,847.2	2,843.1	2,842.4	6.6	4.6	-85.99	-194.3	-106.6	257.6	246.6	11.05	23.315		
2,900.0	2,896.8	2,893.0	2,892.1	6.9	4.6	-81.13	-192.8	-110.7	256.7	245.4	11.29	22.726		
2,945.0	2,941.4	2,937.9	2,936.9	7.0	4.7	-77.73	-191.5	-114.5	255.2	243.8	11.41	22.362		
3,000.0	2,995.7	2,992.8	2,991.5	7.2	4.7	-74.58	-189.8	-119.0	252.8	241.2	11.64	21.723		
3,040.0	3,035.2	3,032.6	3,031.2	7.4	4.7	-72.87	-188.6	-122.3	250.6	238.9	11.77	21.302		
3,100.0	3,094.2	3,092.3	3,090.6	7.6	4.8	-71.09	-186.8	-127.3	246.7	234.7	11.95	20.645		
3,135.0	3,128.5	3,127.0	3,125.2	7.6	4.8	-70.43	-185.7	-130.2	244.0	231.9	12.05	20.240		
3,156.0	3,149.1	3,147.8	3,146.0	7.7	4.8	-70.16	-185.1	-131.9	242.3	230.1	12.12	19.989		
3,200.0	3,192.1	3,191.4	3,189.3	7.8	4.8	-71.30	-183.8	-135.5	238.6	226.4	12.26	19.463		
3,230.0	3,221.4	3,221.1	3,218.9	7.8	4.8	-72.10	-182.9	-138.0	236.2	223.8	12.36	19.109		
3,300.0	3,289.9	3,290.4	3,288.0	8.0	4.9	-74.03	-180.8	-143.7	230.7	218.1	12.59	18.317		
3,325.0	3,314.4	3,315.2	3,312.7	8.0	4.9	-74.75	-180.1	-145.8	228.8	216.1	12.68	18.040		
3,400.0	3,387.7	3,389.5	3,386.7	8.2	5.0	-76.95	-177.8	-151.9	223.3	210.4	12.95	17.245		
3,420.0	3,407.3	3,409.3	3,406.4	8.3	5.0	-77.56	-177.2	-153.6	221.9	208.9	13.02	17.040		
3,500.0	3,485.5	3,488.5	3,485.3	8.5	5.0	-80.05	-174.8	-160.2	216.6	203.3	13.32	16.259		
3,515.0	3,500.2	3,503.4	3,500.1	8.5	5.1	-80.53	-174.4	-161.4	215.6	202.3	13.38	16.118		
3,600.0	3,583.3	3,587.6	3,584.0	8.7	5.1	-83.34	-171.8	-168.4	210.5	196.8	13.70	15.362		
3,610.0	3,593.1	3,597.5	3,593.9	8.8	5.1	-83.68	-171.5	-169.2	210.0	196.2	13.74	15.277		
3,700.0	3,681.2	3,686.7	3,682.7	9.0	5.2	-86.81	-168.8	-176.6	205.2	191.1	14.10	14.556		
3,705.0	3,686.0	3,691.6	3,687.6	9.0	5.2	-86.99	-168.7	-177.0	205.0	190.8	14.12	14.518		
3,800.0	3,779.0	3,785.7	3,781.3	9.3	5.3	-90.45	-165.8	-184.8	200.7	186.2	14.50	13.844		
3,895.0	3,871.9	3,879.8	3,875.1	9.6	5.4	-94.04	-163.0	-192.6	197.2	182.3	14.88	13.253		
3,900.0	3,876.8	3,884.8	3,880.0	9.6	5.4	-94.23	-162.9	-193.0	197.0	182.1	14.90	13.224		
3,990.0	3,964.8	3,973.9	3,968.8	9.8	5.4	-97.74	-160.2	-200.4	194.5	179.2	15.26	12.744		
4,000.0	3,974.6	3,983.8	3,978.7	9.9	5.4	-98.14	-159.9	-201.3	194.3	179.0	15.30	12.696		
4,085.0	4,057.7	4,068.0	4,062.5	10.1	5.5	-101.53	-157.3	-208.2	192.7	177.0	15.64	12.317		
4,100.0	4,072.4	4,082.9	4,077.3	10.2	5.5	-102.14	-156.9	-209.5	192.5	176.8	15.70	12.257		
4,180.0	4,150.7	4,162.1	4,156.3	10.4	5.6	-105.38	-154.5	-216.1	191.7	175.7	16.02	11.968		
4,200.0	4,170.2	4,181.9	4,176.0	10.5	5.6	-106.19	-153.9	-217.7	191.6	175.5	16.10	11.904		
4,235.6	4,205.1	4,217.2	4,211.2	10.6	5.6	-107.64	-152.8	-220.6	191.6	175.3	16.24	11.798 CC		
4,275.0	4,243.6	4,256.2	4,250.0	10.7	5.7	-109.24	-151.6	-223.9	191.6	175.2	16.39	11.693 ES		
4,300.0	4,268.0	4,281.0	4,274.7	10.8	5.7	-110.26	-150.9	-225.9	191.8	175.3	16.49	11.633		
4,370.0	4,336.5	4,350.3	4,343.7	11.0	5.8	-113.09	-148.8	-231.7	192.4	175.7	16.75	11.488		
4,400.0	4,365.9	4,380.0	4,373.3	11.1	5.8	-114.30	-147.9	-234.1	192.9	176.0	16.87	11.437		
4,465.0	4,429.4	4,444.4	4,437.5	11.3	5.9	-116.89	-146.0	-239.5	194.1	177.0	17.11	11.348		
4,500.0	4,463.7	4,479.1	4,472.0	11.4	5.9	-118.28	-144.9	-242.4	195.0	177.7	17.24	11.311		
4,560.0	4,522.4	4,538.5	4,531.2	11.6	5.9	-120.62	-143.1	-247.3	196.7	179.2	17.46	11.266		
4,600.0	4,561.5	4,578.1	4,570.7	11.8	6.0	-122.15	-141.9	-250.6	198.0	180.4	17.60	11.248		
4,655.0	4,615.3	4,632.6	4,624.9	11.9	6.0	-124.23	-140.3	-255.1	200.0	182.2	17.80	11.238 SF		
4,700.0	4,659.3	4,677.2	4,669.3	12.1	6.1	-125.90	-138.9	-258.8	201.9	183.9	17.96	11.241		
4,750.0	4,708.2	4,726.7	4,718.7	12.3	6.1	-127.71	-137.4	-262.9	204.2	186.0	18.14	11.256		
4,800.0	4,757.1	4,776.2	4,768.0	12.4	6.2	-129.49	-135.9	-267.0	206.7	188.3	18.32	11.283		
4,845.0	4,801.1	4,820.8	4,812.4	12.6	6.2	-131.05	-134.6	-270.7	209.1	190.6	18.47	11.316		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
4,900.0	4,854.9	4,875.3	4,866.7	12.8	6.3	-132.90	-132.9	-275.2	212.2	193.5	18.67	11.367	
4,940.0	4,894.1	4,914.9	4,906.1	12.9	6.3	-134.22	-131.7	-278.5	214.6	195.8	18.81	11.410	
5,000.0	4,952.8	4,974.3	4,965.3	13.1	6.4	-136.14	-129.9	-283.5	218.5	199.4	19.02	11.485	
5,035.0	4,987.0	5,009.0	4,999.9	13.2	6.4	-137.23	-128.9	-286.3	220.8	201.7	19.14	11.534	
5,100.0	5,050.6	5,073.4	5,064.0	13.5	6.5	-139.19	-127.0	-291.7	225.4	206.0	19.37	11.634	
5,130.0	5,079.9	5,103.1	5,093.6	13.6	6.5	-140.07	-126.1	-294.1	227.6	208.1	19.48	11.683	
5,200.0	5,148.4	5,172.4	5,162.6	13.8	6.6	-142.05	-124.0	-299.9	232.9	213.2	19.73	11.806	
5,225.0	5,172.8	5,197.2	5,187.3	13.9	6.6	-142.74	-123.2	-302.0	234.9	215.1	19.82	11.852	
5,300.0	5,246.2	5,271.5	5,261.3	14.2	6.7	-144.73	-121.0	-308.1	241.0	220.9	20.09	11.997	
5,320.0	5,265.8	5,291.3	5,281.0	14.2	6.7	-145.25	-120.4	-309.8	242.7	222.5	20.16	12.037	
5,400.0	5,344.0	5,370.5	5,360.0	14.5	6.8	-147.23	-118.0	-316.3	249.6	229.1	20.45	12.203	
5,415.0	5,358.7	5,385.4	5,374.8	14.6	6.8	-147.59	-117.5	-317.6	250.9	230.4	20.51	12.235	
5,500.0	5,441.8	5,469.6	5,458.6	14.9	6.9	-149.57	-115.0	-324.6	258.6	237.8	20.82	12.420	
5,510.0	5,451.6	5,479.5	5,468.5	14.9	6.9	-149.79	-114.7	-325.4	259.5	238.6	20.86	12.442	
5,600.0	5,539.6	5,568.6	5,557.3	15.2	7.0	-151.74	-112.0	-332.8	268.0	246.8	21.19	12.645	
5,605.0	5,544.5	5,573.6	5,562.2	15.2	7.0	-151.85	-111.8	-333.2	268.5	247.3	21.21	12.657	
5,700.0	5,637.5	5,667.7	5,656.0	15.6	7.1	-153.77	-109.0	-341.0	277.8	256.2	21.57	12.876	
5,795.0	5,730.4	5,761.8	5,749.7	15.9	7.2	-155.56	-106.2	-348.8	287.4	265.4	21.94	13.099	
5,800.0	5,735.3	5,766.7	5,754.6	15.9	7.2	-155.66	-106.0	-349.2	287.9	265.9	21.96	13.111	
5,890.0	5,823.3	5,855.9	5,843.4	16.3	7.3	-157.24	-103.3	-356.6	297.2	274.9	22.31	13.324	
5,900.0	5,833.1	5,865.8	5,853.3	16.3	7.3	-157.41	-103.0	-357.4	298.3	275.9	22.35	13.347	
5,985.0	5,916.2	5,950.0	5,937.2	16.6	7.4	-158.82	-100.5	-364.4	307.3	284.6	22.68	13.548	
6,000.0	5,930.9	5,964.8	5,952.0	16.7	7.4	-159.05	-100.0	-365.7	308.9	286.2	22.74	13.584	
6,080.0	6,009.2	6,044.1	6,030.9	17.0	7.5	-160.29	-97.6	-372.2	317.6	294.6	23.06	13.773	
6,100.0	6,028.7	6,063.9	6,050.6	17.0	7.5	-160.58	-97.0	-373.9	319.8	296.7	23.14	13.820	
6,175.0	6,102.1	6,138.2	6,124.6	17.3	7.6	-161.66	-94.8	-380.0	328.1	304.7	23.45	13.995	
6,200.0	6,126.5	6,162.9	6,149.3	17.4	7.6	-162.01	-94.0	-382.1	330.9	307.4	23.55	14.053	
6,270.0	6,195.0	6,232.3	6,218.4	17.6	7.7	-162.96	-91.9	-387.9	338.8	315.0	23.83	14.215	
6,300.0	6,224.3	6,262.0	6,248.0	17.8	7.7	-163.35	-91.0	-390.3	342.2	318.3	23.96	14.284	
6,365.0	6,287.9	6,326.4	6,312.1	18.0	7.8	-164.17	-89.1	-395.7	349.7	325.4	24.23	14.433	
6,400.0	6,322.2	6,361.1	6,346.6	18.1	7.8	-164.60	-88.1	-398.5	353.7	329.3	24.37	14.512	
6,460.0	6,380.8	6,420.5	6,405.8	18.3	7.9	-165.31	-86.3	-403.5	360.6	336.0	24.62	14.647	
6,500.0	6,420.0	6,460.1	6,445.3	18.5	8.0	-165.77	-85.1	-406.8	365.3	340.5	24.79	14.736	
6,555.0	6,473.8	6,514.6	6,499.6	18.7	8.0	-166.38	-83.4	-411.3	371.8	346.7	25.02	14.858	
6,600.0	6,517.8	6,559.2	6,544.0	18.9	8.1	-166.87	-82.1	-415.0	377.1	351.9	25.21	14.956	
6,650.0	6,566.7	6,608.7	6,593.3	19.0	8.1	-167.39	-80.6	-419.1	383.0	357.6	25.42	15.065	
6,700.0	6,615.6	6,658.2	6,642.6	19.2	8.2	-167.90	-79.1	-423.2	389.0	363.3	25.64	15.172	
6,745.0	6,659.6	6,702.8	6,687.0	19.4	8.2	-168.35	-77.7	-426.9	394.4	368.5	25.83	15.268	
6,800.0	6,713.4	6,757.3	6,741.3	19.6	8.3	-168.87	-76.1	-431.4	401.0	374.9	26.07	15.383	
6,840.0	6,752.5	6,796.9	6,780.8	19.7	8.3	-169.25	-74.9	-434.7	405.8	379.6	26.24	15.466	
6,900.0	6,811.2	6,856.3	6,840.0	20.0	8.4	-169.79	-73.1	-439.6	413.1	386.6	26.50	15.590	
6,935.0	6,845.5	6,891.0	6,874.5	20.1	8.4	-170.10	-72.0	-442.5	417.4	390.7	26.65	15.661	
7,000.0	6,909.0	6,955.4	6,938.6	20.3	8.5	-170.65	-70.1	-447.9	425.3	398.4	26.93	15.791	
7,030.0	6,938.4	6,985.1	6,968.2	20.5	8.6	-170.90	-69.2	-450.3	429.0	401.9	27.07	15.851	
7,100.0	7,006.9	7,054.4	7,037.3	20.7	8.6	-171.47	-67.1	-456.1	437.6	410.3	27.37	15.988	
7,125.0	7,031.3	7,079.2	7,061.9	20.8	8.7	-171.66	-66.4	-458.1	440.7	413.2	27.48	16.037	
7,200.0	7,104.7	7,153.5	7,135.9	21.1	8.8	-172.24	-64.1	-464.3	450.0	422.2	27.81	16.180	
7,220.0	7,124.2	7,173.3	7,155.7	21.2	8.8	-172.39	-63.5	-465.9	452.5	424.6	27.90	16.218	
7,300.0	7,202.5	7,252.5	7,234.6	21.5	8.9	-172.97	-61.1	-472.5	462.5	434.2	28.26	16.368	
7,315.0	7,217.2	7,267.4	7,249.4	21.5	8.9	-173.07	-60.7	-473.7	464.4	436.0	28.32	16.395	
7,400.0	7,300.3	7,351.6	7,333.3	21.8	9.0	-173.66	-58.1	-480.7	475.0	446.3	28.70	16.550	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1													Offset Site Error: 3.0 usft		
Survey Program: Reference		0-Standard Keeper 104, 8546-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,410.0	7,310.1	7,361.5	7,343.1	21.9	9.0	-173.72	-57.8	-481.6	476.3	447.5	28.75	16.568			
7,500.0	7,398.1	7,450.6	7,431.9	22.2	9.1	-174.31	-55.1	-489.0	487.6	458.5	29.15	16.728			
7,505.0	7,403.0	7,455.6	7,436.9	22.2	9.1	-174.34	-55.0	-489.4	488.3	459.1	29.17	16.737			
7,600.0	7,495.9	7,549.7	7,530.6	22.6	9.2	-174.93	-52.2	-497.2	500.3	470.7	29.60	16.901			
7,695.0	7,588.9	7,643.8	7,624.3	22.9	9.3	-175.50	-49.3	-505.0	512.4	482.3	30.03	17.062			
7,700.0	7,593.8	7,648.7	7,629.3	23.0	9.3	-175.53	-49.2	-505.4	513.0	483.0	30.05	17.070			
7,790.0	7,681.8	7,737.9	7,718.1	23.3	9.4	-176.03	-46.5	-512.8	524.5	494.0	30.46	17.218			
7,800.0	7,691.6	7,747.8	7,727.9	23.3	9.4	-176.09	-46.2	-513.6	525.8	495.3	30.51	17.234			
7,885.0	7,774.7	7,832.0	7,811.8	23.7	9.5	-176.55	-43.6	-520.6	536.7	505.8	30.90	17.370			
7,900.0	7,789.4	7,846.8	7,826.6	23.7	9.6	-176.62	-43.2	-521.8	538.6	507.6	30.96	17.394			
7,980.0	7,867.6	7,926.1	7,905.5	24.0	9.7	-177.04	-40.8	-528.4	548.9	517.5	31.33	17.519			
8,000.0	7,887.2	7,945.9	7,925.3	24.1	9.7	-177.14	-40.2	-530.1	551.5	520.0	31.42	17.550			
8,075.0	7,960.6	8,020.2	7,999.3	24.4	9.8	-177.50	-37.9	-536.2	561.1	529.4	31.77	17.664			
8,100.0	7,985.0	8,044.9	8,023.9	24.5	9.8	-177.62	-37.2	-538.3	564.4	532.5	31.88	17.701			
8,170.0	8,053.5	8,114.3	8,093.0	24.7	9.9	-177.95	-35.1	-544.0	573.4	541.2	32.20	17.805			
8,200.0	8,082.8	8,144.0	8,122.6	24.9	9.9	-178.09	-34.2	-546.5	577.3	545.0	32.34	17.849			
8,265.0	8,146.4	8,208.4	8,186.7	25.1	10.0	-178.38	-32.3	-551.8	585.7	553.1	32.64	17.943			
8,300.0	8,180.6	8,243.0	8,221.3	25.2	10.0	-178.54	-31.2	-554.7	590.3	557.5	32.81	17.993			
8,360.0	8,239.3	8,302.5	8,280.5	25.5	10.1	-178.79	-29.4	-559.6	598.1	565.0	33.09	18.077			
8,400.0	8,278.5	8,342.1	8,319.9	25.6	10.2	-178.96	-28.2	-562.9	603.3	570.0	33.27	18.132			
8,455.0	8,332.3	8,396.6	8,374.2	25.8	10.2	-179.19	-26.6	-567.5	610.5	576.9	33.53	18.208			
8,500.0	8,376.3	8,441.1	8,418.6	26.0	10.3	-179.37	-25.2	-571.2	616.3	582.6	33.74	18.269			
8,550.0	8,425.2	8,490.7	8,467.9	26.2	10.3	-179.57	-23.7	-575.3	622.9	588.9	33.97	18.335			
8,600.0	8,474.1	8,571.4	8,548.2	26.4	10.4	-179.47	-26.1	-583.2	628.3	594.0	34.29	18.322			
8,645.0	8,518.1	8,646.8	8,621.9	26.5	10.4	-178.51	-38.1	-593.0	630.9	596.3	34.60	18.232			
8,700.0	8,571.9	8,734.3	8,704.2	26.7	10.4	-176.39	-63.7	-607.2	631.4	596.4	35.05	18.015			
8,740.0	8,611.0	8,792.9	8,756.6	26.9	10.4	-174.37	-87.6	-618.2	630.5	595.1	35.41	17.807			
8,800.0	8,669.7	8,871.3	8,822.0	27.1	10.5	-170.91	-127.6	-634.6	627.9	591.9	35.96	17.463			
8,835.0	8,704.0	8,911.7	8,853.2	27.3	10.5	-168.80	-151.6	-643.7	626.2	590.0	36.27	17.264			
8,900.0	8,767.5	8,976.9	8,899.6	27.5	10.6	-164.96	-194.5	-659.1	624.0	587.1	36.84	16.937			
8,930.0	8,796.9	9,003.0	8,916.7	27.6	10.6	-163.28	-213.2	-665.5	623.6	586.5	37.08	16.817			
8,934.0	8,800.8	9,006.3	8,918.8	27.6	10.6	-163.06	-215.6	-666.3	623.6	586.5	37.11	16.802			
9,000.0	8,865.3	9,055.6	8,948.4	27.9	10.7	-159.66	-253.1	-678.8	625.3	587.7	37.60	16.632			
9,025.0	8,889.8	9,071.9	8,957.4	28.0	10.8	-158.48	-266.0	-683.0	626.9	589.1	37.76	16.603			
9,106.4	8,969.4	9,117.8	8,980.7	28.3	10.8	-155.06	-303.7	-694.9	636.6	598.4	38.21	16.660			
9,120.0	8,982.7	9,124.5	8,983.8	28.3	10.9	-154.57	-309.3	-696.6	638.9	600.6	38.28	16.691			
9,200.0	9,061.3	9,159.1	8,998.9	28.7	10.9	-152.03	-339.1	-705.8	655.4	616.8	38.59	16.983			
9,215.0	9,076.1	9,164.8	9,001.1	28.7	11.0	-151.62	-344.1	-707.3	659.1	620.5	38.64	17.056			
9,300.0	9,160.0	9,192.9	9,011.7	29.1	11.0	-149.63	-369.0	-714.7	683.8	644.9	38.86	17.597			
9,310.0	9,169.9	9,200.0	9,014.2	29.1	11.0	-149.09	-375.4	-716.6	687.1	648.2	38.90	17.661			
9,400.0	9,259.2	9,218.9	9,020.4	29.5	11.1	-147.95	-392.6	-721.7	720.6	681.6	38.95	18.501			
9,405.0	9,264.2	9,220.1	9,020.8	29.5	11.1	-147.88	-393.6	-722.0	722.6	683.7	38.95	18.554			
9,500.0	9,358.8	9,239.2	9,026.4	29.9	11.1	-146.86	-411.2	-727.1	765.1	726.2	38.89	19.672			
9,595.0	9,453.7	9,250.0	9,029.3	30.2	11.2	-146.62	-421.2	-729.9	813.7	775.0	38.72	21.017			
9,600.0	9,458.7	9,250.0	9,029.3	30.2	11.2	-146.66	-421.2	-729.9	816.4	777.7	38.70	21.095			
9,690.0	9,548.6	9,266.8	9,033.4	30.6	11.2	-146.02	-436.8	-734.4	867.5	829.0	38.51	22.524			
9,706.4	9,565.0	9,268.6	9,033.8	30.6	11.2	115.86	-438.6	-734.9	877.2	838.7	38.47	22.802			
9,785.0	9,643.6	9,276.9	9,035.6	30.9	11.2	116.50	-446.3	-737.0	926.3	888.1	38.25	24.217			
9,800.0	9,658.6	9,278.3	9,036.0	30.9	11.2	116.62	-447.7	-737.4	936.2	898.0	38.21	24.499			
9,880.0	9,738.6	9,285.6	9,037.4	31.1	11.3	117.18	-454.5	-739.3	990.6	952.6	38.03	26.051			

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8449-MWD+IFR1+FDIR												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)	Factor	
9,025.0	8,889.8	9,026.9	8,925.9	28.0	10.7	0.47	-253.8	-2,275.8	997.0	960.5	36.50	27.314	
9,106.4	8,969.4	9,065.0	8,947.2	28.3	10.8	-1.41	-285.1	-2,270.9	979.5	942.2	37.22	26.314	
9,120.0	8,982.7	9,070.7	8,950.2	28.3	10.8	-1.70	-289.9	-2,270.1	977.0	939.7	37.35	26.160	
9,200.0	9,061.3	9,100.0	8,964.9	28.7	10.9	-3.21	-315.0	-2,266.4	967.1	929.0	38.08	25.398	
9,215.0	9,076.1	9,100.0	8,964.9	28.7	10.9	-3.21	-315.0	-2,266.4	966.1	927.9	38.21	25.281	
9,262.7	9,123.2	9,121.4	8,974.8	28.9	10.9	-4.34	-333.8	-2,263.7	964.6	926.0	38.67	24.946	CC, ES
9,300.0	9,160.0	9,132.4	8,979.6	29.1	10.9	-4.92	-343.5	-2,262.3	965.5	926.5	39.01	24.752	
9,310.0	9,169.9	9,135.2	8,980.8	29.1	10.9	-5.08	-346.0	-2,262.0	966.0	927.0	39.10	24.710	
9,400.0	9,259.2	9,150.0	8,986.9	29.5	11.0	-5.90	-359.4	-2,260.1	976.5	936.7	39.82	24.521	SF
9,405.0	9,264.2	9,150.0	8,986.9	29.5	11.0	-5.90	-359.4	-2,260.1	977.4	937.6	39.86	24.521	
9,500.0	9,358.8	9,179.3	8,997.9	29.9	11.0	-7.58	-386.3	-2,256.5	999.8	959.3	40.53	24.669	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #701H - OWB - PWP3														Offset Site Error: 3.0 usft	
Survey Program: Reference		0-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		
0.0	0.0	0.0	0.0	3.0	3.0	89.52	1.9	229.9	230.1						
95.0	95.0	87.0	87.0	3.0	3.0	89.52	1.9	229.9	229.9	223.9	6.00	38.306			
100.0	100.0	92.0	92.0	3.0	3.0	89.52	1.9	229.9	229.9	223.9	6.00	38.304			
190.0	190.0	182.0	182.0	3.0	3.0	89.52	1.9	229.9	229.9	223.9	6.03	38.120			
200.0	200.0	192.0	192.0	3.0	3.0	89.52	1.9	229.9	229.9	223.9	6.04	38.085			
285.0	285.0	277.0	277.0	3.0	3.1	89.52	1.9	229.9	229.9	223.8	6.10	37.688			
300.0	300.0	292.0	292.0	3.0	3.1	89.52	1.9	229.9	229.9	223.8	6.12	37.599			
380.0	380.0	372.0	372.0	3.0	3.2	89.52	1.9	229.9	229.9	223.7	6.21	37.046			
400.0	400.0	392.0	392.0	3.0	3.2	89.52	1.9	229.9	229.9	223.7	6.23	36.888			
475.0	475.0	467.0	467.0	3.0	3.3	89.52	1.9	229.9	229.9	223.6	6.35	36.234			
500.0	500.0	492.0	492.0	3.1	3.4	89.52	1.9	229.9	229.9	223.5	6.39	35.998			
570.0	570.0	562.0	562.0	3.1	3.5	89.52	1.9	229.9	229.9	223.4	6.51	35.296			
600.0	600.0	592.0	592.0	3.1	3.6	89.52	1.9	229.9	229.9	223.4	6.57	34.980			
665.0	665.0	657.0	657.0	3.1	3.7	89.52	1.9	229.9	229.9	223.2	6.71	34.272			
700.0	700.0	692.0	692.0	3.1	3.8	89.52	1.9	229.9	229.9	223.1	6.79	33.881			
760.0	760.0	752.0	752.0	3.1	3.9	89.52	1.9	229.9	229.9	223.0	6.93	33.198			
800.0	800.0	792.0	792.0	3.2	4.0	89.52	1.9	229.9	229.9	222.9	7.02	32.738			
855.0	855.0	847.0	847.0	3.2	4.1	89.52	1.9	229.9	229.9	222.8	7.16	32.103			
900.0	900.0	892.0	892.0	3.2	4.2	89.52	1.9	229.9	229.9	222.6	7.28	31.584			
950.0	950.0	942.0	942.0	3.2	4.4	89.52	1.9	229.9	229.9	222.5	7.41	31.009			
1,000.0	1,000.0	992.0	992.0	3.2	4.5	89.52	1.9	229.9	229.9	222.4	7.55	30.440			
1,045.0	1,045.0	1,037.0	1,037.0	3.3	4.6	89.52	1.9	229.9	229.9	222.2	7.68	29.932			
1,100.0	1,100.0	1,092.0	1,092.0	3.3	4.8	89.52	1.9	229.9	229.9	222.1	7.84	29.321			
1,140.0	1,140.0	1,132.0	1,132.0	3.3	4.9	89.52	1.9	229.9	229.9	222.0	7.96	28.884			
1,200.0	1,200.0	1,192.0	1,192.0	3.4	5.0	89.52	1.9	229.9	229.9	221.8	8.14	28.240			
1,235.0	1,235.0	1,227.0	1,227.0	3.4	5.1	89.52	1.9	229.9	229.9	221.7	8.25	27.871			
1,300.0	1,300.0	1,292.0	1,292.0	3.4	5.3	89.52	1.9	229.9	229.9	221.5	8.45	27.201			
1,330.0	1,330.0	1,322.0	1,322.0	3.4	5.4	89.52	1.9	229.9	229.9	221.4	8.55	26.899			
1,400.0	1,400.0	1,392.0	1,392.0	3.5	5.6	89.52	1.9	229.9	229.9	221.2	8.77	26.209			
1,425.0	1,425.0	1,417.0	1,417.0	3.5	5.7	89.52	1.9	229.9	229.9	221.1	8.85	25.969			
1,500.0	1,500.0	1,492.0	1,492.0	3.5	5.9	89.52	1.9	229.9	229.9	220.8	9.10	25.265			
1,520.0	1,520.0	1,512.0	1,512.0	3.6	6.0	89.52	1.9	229.9	229.9	220.8	9.17	25.082			
1,600.0	1,600.0	1,592.0	1,592.0	3.6	6.2	89.52	1.9	229.9	229.9	220.5	9.44	24.369			
1,615.0	1,615.0	1,607.0	1,607.0	3.6	6.3	89.52	1.9	229.9	229.9	220.4	9.49	24.238			
1,700.0	1,700.0	1,692.0	1,692.0	3.7	6.6	89.52	1.9	229.9	229.9	220.2	9.78	23.519			
1,710.0	1,710.0	1,702.0	1,702.0	3.7	6.6	89.52	1.9	229.9	229.9	220.1	9.81	23.437			
1,800.0	1,800.0	1,792.0	1,792.0	3.8	6.9	89.52	1.9	229.9	229.9	219.8	10.12	22.714			
1,805.0	1,805.0	1,797.0	1,797.0	3.8	6.9	89.52	1.9	229.9	229.9	219.8	10.14	22.675			
1,900.0	1,900.0	1,892.0	1,892.0	3.9	7.2	89.52	1.9	229.9	229.9	219.5	10.47	21.953			
1,995.0	1,995.0	1,987.0	1,987.0	3.9	7.5	89.52	1.9	229.9	229.9	219.1	10.81	21.267			
2,000.0	2,000.0	1,992.0	1,992.0	3.9	7.5	89.52	1.9	229.9	229.9	219.1	10.83	21.232	CC, ES		
2,090.0	2,090.0	2,082.0	2,082.0	4.1	7.8	104.85	1.9	229.9	230.3	219.1	11.14	20.665			
2,100.0	2,100.0	2,092.0	2,092.0	4.2	7.9	104.93	1.9	229.9	230.4	219.2	11.18	20.608			
2,185.0	2,184.9	2,176.9	2,176.9	4.7	8.2	105.92	1.9	229.9	231.5	220.0	11.49	20.140			
2,200.0	2,199.8	2,191.8	2,191.8	4.8	8.2	106.15	1.9	229.9	231.8	220.2	11.55	20.066			
2,250.0	2,249.7	2,241.7	2,241.7	4.9	8.4	107.05	1.9	229.9	232.9	221.1	11.75	19.815			
2,280.0	2,279.6	2,271.6	2,271.6	5.0	8.5	107.67	1.9	229.9	233.7	221.8	11.88	19.668			
2,300.0	2,299.5	2,291.5	2,291.5	5.0	8.5	108.07	1.9	229.9	234.2	222.3	11.97	19.572			
2,375.0	2,374.2	2,366.2	2,366.2	5.1	8.8	109.57	1.9	229.9	236.3	224.0	12.32	19.189			
2,400.0	2,399.1	2,391.1	2,391.1	5.1	8.9	110.07	1.9	229.9	237.1	224.6	12.43	19.067			
2,470.0	2,468.8	2,460.8	2,460.8	5.2	9.1	111.43	1.9	229.9	239.2	226.5	12.79	18.710			

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

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Anticollision Report

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Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #701H - OWB - PWP3												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)	Factor	
2,500.0	2,498.7	2,490.7	2,490.7	5.3	9.2	112.01	1.9	229.9	240.2	227.3	12.94	18.564	
2,535.0	2,533.6	2,523.8	2,523.8	5.3	9.3	112.64	2.0	230.0	241.5	228.4	13.11	18.417	
2,565.0	2,563.5	2,551.5	2,551.5	5.3	9.4	119.91	2.1	230.4	243.0	229.7	13.27	18.316	
2,600.0	2,598.4	2,583.9	2,583.9	5.4	9.5	128.64	2.3	231.1	245.4	231.9	13.44	18.251	
2,660.0	2,658.1	2,639.2	2,639.2	5.6	9.7	143.33	2.9	233.2	251.1	237.3	13.78	18.219 SF	
2,700.0	2,698.0	2,676.0	2,675.9	5.8	9.8	152.26	3.5	235.1	256.1	242.1	14.00	18.285	
2,755.0	2,752.8	2,726.3	2,726.1	6.1	10.0	162.82	4.5	238.5	264.3	250.0	14.28	18.507	
2,800.0	2,797.5	2,767.1	2,766.8	6.4	10.1	169.89	5.5	241.8	272.2	257.7	14.50	18.769	
2,850.0	2,847.2	2,813.3	2,812.6	6.6	10.3	176.22	6.8	246.3	282.3	267.5	14.81	19.063	
2,900.0	2,896.8	2,862.0	2,861.1	6.9	10.4	-178.79	8.3	251.2	293.2	278.1	15.13	19.385	
2,945.0	2,941.4	2,905.7	2,904.6	7.0	10.6	-175.19	9.6	255.5	303.6	288.1	15.54	19.533	
3,000.0	2,995.7	2,959.0	2,957.5	7.2	10.8	-171.71	11.2	260.9	317.1	301.1	16.01	19.808	
3,040.0	3,035.2	2,997.5	2,995.9	7.4	10.9	-169.68	12.4	264.7	327.4	311.0	16.38	19.991	
3,100.0	3,094.2	3,055.1	3,053.1	7.6	11.1	-167.26	14.1	270.5	343.7	326.7	16.93	20.293	
3,135.0	3,128.5	3,088.5	3,086.4	7.6	11.2	-166.13	15.1	273.8	353.6	336.4	17.17	20.599	
3,156.0	3,149.1	3,108.5	3,106.3	7.7	11.3	-165.53	15.7	275.8	359.8	342.5	17.31	20.788	
3,200.0	3,192.1	3,150.4	3,147.9	7.8	11.4	-166.15	17.0	280.0	372.8	355.2	17.55	21.242	
3,230.0	3,221.4	3,178.9	3,176.3	7.8	11.5	-166.55	17.8	282.9	381.7	364.0	17.72	21.542	
3,300.0	3,289.9	3,245.5	3,242.5	8.0	11.7	-167.41	19.8	289.5	402.5	384.4	18.11	22.222	
3,325.0	3,314.4	3,269.3	3,266.2	8.0	11.8	-167.70	20.6	291.9	410.0	391.7	18.26	22.450	
3,400.0	3,387.7	3,340.6	3,337.1	8.2	12.1	-168.50	22.7	299.1	432.4	413.7	18.71	23.113	
3,420.0	3,407.3	3,359.7	3,356.0	8.3	12.1	-168.70	23.3	301.0	438.4	419.5	18.83	23.282	
3,500.0	3,485.5	3,435.8	3,431.7	8.5	12.4	-169.45	25.6	308.6	462.4	443.1	19.31	23.940	
3,515.0	3,500.2	3,450.0	3,445.9	8.5	12.4	-169.58	26.0	310.0	466.9	447.5	19.41	24.059	
3,600.0	3,583.3	3,530.9	3,526.3	8.7	12.7	-170.28	28.4	318.1	492.5	472.6	19.93	24.710	
3,610.0	3,593.1	3,540.4	3,535.8	8.8	12.8	-170.36	28.7	319.1	495.5	475.5	19.99	24.784	
3,700.0	3,681.2	3,626.0	3,620.9	9.0	13.1	-171.02	31.3	327.6	522.7	502.1	20.56	25.428	
3,705.0	3,686.0	3,630.8	3,625.7	9.0	13.1	-171.05	31.4	328.1	524.2	503.6	20.59	25.462	
3,800.0	3,779.0	3,721.1	3,715.6	9.3	13.4	-171.68	34.2	337.2	552.9	531.7	21.19	26.096	
3,895.0	3,871.9	3,811.5	3,805.4	9.6	13.7	-172.24	36.9	346.2	581.7	559.9	21.80	26.691	
3,900.0	3,876.8	3,816.3	3,810.2	9.6	13.7	-172.26	37.0	346.7	583.3	561.4	21.83	26.721	
3,990.0	3,964.8	3,901.9	3,895.3	9.8	14.0	-172.74	39.6	355.3	610.6	588.2	22.41	27.248	
4,000.0	3,974.6	3,911.4	3,904.8	9.9	14.0	-172.80	39.9	356.2	613.6	591.1	22.47	27.305	
4,085.0	4,057.7	3,992.3	3,985.2	10.1	14.3	-173.21	42.3	364.3	639.5	616.4	23.03	27.772	
4,100.0	4,072.4	4,006.5	3,999.4	10.2	14.4	-173.28	42.7	365.7	644.0	620.9	23.12	27.852	
4,180.0	4,150.7	4,082.6	4,075.1	10.4	14.6	-173.63	45.0	373.3	668.4	644.7	23.65	28.265	
4,200.0	4,170.2	4,101.7	4,094.0	10.5	14.7	-173.71	45.6	375.3	674.5	650.7	23.78	28.365	
4,275.0	4,243.6	4,173.0	4,164.9	10.7	15.0	-174.02	47.8	382.4	697.3	673.1	24.27	28.729	
4,300.0	4,268.0	4,196.8	4,188.6	10.8	15.0	-174.11	48.5	384.8	705.0	680.5	24.44	28.847	
4,370.0	4,336.5	4,263.4	4,254.8	11.0	15.3	-174.37	50.5	391.4	726.3	701.4	24.90	29.166	
4,400.0	4,365.9	4,291.9	4,283.2	11.1	15.4	-174.48	51.3	394.3	735.5	710.4	25.10	29.300	
4,465.0	4,429.4	4,353.8	4,344.7	11.3	15.6	-174.70	53.2	400.5	755.3	729.8	25.54	29.579	
4,500.0	4,463.7	4,387.1	4,377.8	11.4	15.7	-174.82	54.2	403.8	766.0	740.2	25.77	29.726	
4,560.0	4,522.4	4,444.1	4,434.6	11.6	15.9	-175.01	55.9	409.5	784.3	758.2	26.17	29.970	
4,600.0	4,561.5	4,482.2	4,472.4	11.8	16.0	-175.13	57.1	413.3	796.6	770.1	26.44	30.128	
4,655.0	4,615.3	4,534.5	4,524.5	11.9	16.2	-175.29	58.6	418.6	813.4	786.6	26.81	30.339	
4,700.0	4,659.3	4,577.3	4,567.0	12.1	16.4	-175.42	59.9	422.9	827.1	800.0	27.11	30.507	
4,750.0	4,708.2	4,624.9	4,614.3	12.3	16.6	-175.55	61.3	427.6	842.4	815.0	27.45	30.689	
4,800.0	4,757.1	4,672.4	4,661.6	12.4	16.7	-175.69	62.8	432.4	857.7	830.0	27.79	30.866	
4,845.0	4,801.1	4,715.3	4,704.2	12.6	16.9	-175.80	64.1	436.7	871.5	843.4	28.09	31.021	
4,900.0	4,854.9	4,767.6	4,756.3	12.8	17.1	-175.94	65.6	441.9	888.4	859.9	28.47	31.205	

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

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Reference Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #701H - OWB - PWP3													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													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 Factor			
4,940.0	4,894.1	4,805.6	4,794.1	12.9	17.2	-176.03	66.8	445.7	900.6	871.9	28.74	31.336		
5,000.0	4,952.8	4,862.7	4,850.9	13.1	17.4	-176.17	68.5	451.4	919.0	889.8	29.15	31.527		
5,035.0	4,987.0	4,896.0	4,884.0	13.2	17.5	-176.25	69.5	454.8	929.7	900.3	29.39	31.636		
5,100.0	5,050.6	4,957.8	4,945.5	13.5	17.7	-176.39	71.4	461.0	949.6	919.8	29.83	31.832		
5,130.0	5,079.9	4,986.4	4,973.9	13.6	17.8	-176.45	72.2	463.8	958.8	928.8	30.04	31.921		
5,200.0	5,148.4	5,053.0	5,040.1	13.8	18.1	-176.59	74.2	470.5	980.3	949.8	30.52	32.122		
5,225.0	5,172.8	5,076.8	5,063.7	13.9	18.2	-176.64	74.9	472.9	987.9	957.2	30.69	32.192		

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Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10280-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	89.51	1.7	200.0	200.1					
95.0	95.0	88.0	88.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.00	33.327		
100.0	100.0	93.0	93.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.00	33.327		
190.0	190.0	183.0	183.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.00	33.314		
200.0	200.0	193.0	193.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.00	33.312		
285.0	285.0	278.0	278.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.01	33.286		
300.0	300.0	293.0	293.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.01	33.279		
380.0	380.0	373.0	373.0	3.0	3.0	89.51	1.7	200.0	200.0	194.0	6.02	33.240		
400.0	400.0	393.0	393.0	3.0	3.0	89.51	1.7	200.0	200.0	193.9	6.02	33.229		
475.0	475.0	468.0	468.0	3.0	3.0	89.51	1.7	200.0	200.0	193.9	6.03	33.180		
500.0	500.0	493.0	493.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.03	33.161		
570.0	570.0	563.0	563.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.04	33.103		
600.0	600.0	593.0	593.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.05	33.076		
665.0	665.0	658.0	658.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.06	33.011		
700.0	700.0	693.0	693.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.06	32.973		
760.0	760.0	753.0	753.0	3.1	3.1	89.51	1.7	200.0	200.0	193.9	6.08	32.904		
800.0	800.0	793.0	793.0	3.2	3.2	89.51	1.7	200.0	200.0	193.9	6.09	32.855		
855.0	855.0	848.0	848.0	3.2	3.2	89.51	1.7	200.0	200.0	193.9	6.10	32.783		
900.0	900.0	893.0	893.0	3.2	3.2	89.51	1.7	200.0	200.0	193.9	6.11	32.720		
950.0	950.0	943.0	943.0	3.2	3.2	89.51	1.7	200.0	200.0	193.8	6.13	32.648		
1,000.0	1,000.0	993.0	993.0	3.2	3.2	89.51	1.7	200.0	200.0	193.8	6.14	32.571		
1,045.0	1,045.0	1,038.0	1,038.0	3.3	3.3	89.51	1.7	200.0	200.0	193.8	6.15	32.499		
1,100.0	1,100.0	1,093.0	1,093.0	3.3	3.3	89.51	1.7	200.0	200.0	193.8	6.17	32.407		
1,140.0	1,140.0	1,133.0	1,133.0	3.3	3.3	89.51	1.7	200.0	200.0	193.8	6.18	32.337		
1,200.0	1,200.0	1,193.0	1,193.0	3.4	3.3	89.51	1.7	200.0	200.0	193.8	6.20	32.229		
1,235.0	1,235.0	1,228.0	1,228.0	3.4	3.4	89.51	1.7	200.0	200.0	193.7	6.22	32.163		
1,300.0	1,300.0	1,293.0	1,293.0	3.4	3.4	89.51	1.7	200.0	200.0	193.7	6.24	32.037		
1,330.0	1,330.0	1,323.0	1,323.0	3.4	3.4	89.51	1.7	200.0	200.0	193.7	6.25	31.978		
1,400.0	1,400.0	1,393.0	1,393.0	3.5	3.5	89.51	1.7	200.0	200.0	193.7	6.28	31.834		
1,425.0	1,425.0	1,418.0	1,418.0	3.5	3.5	89.51	1.7	200.0	200.0	193.7	6.29	31.781		
1,500.0	1,500.0	1,493.0	1,493.0	3.5	3.5	89.51	1.7	200.0	200.0	193.6	6.32	31.619		
1,520.0	1,520.0	1,513.0	1,513.0	3.6	3.6	89.51	1.7	200.0	200.0	193.6	6.33	31.574		
1,600.0	1,600.0	1,593.0	1,593.0	3.6	3.6	89.51	1.7	200.0	200.0	193.6	6.37	31.393		
1,615.0	1,615.0	1,608.0	1,608.0	3.6	3.6	89.51	1.7	200.0	200.0	193.6	6.38	31.358		
1,700.0	1,700.0	1,693.0	1,693.0	3.7	3.7	89.51	1.7	200.0	200.0	193.5	6.42	31.157		
1,710.0	1,710.0	1,703.0	1,703.0	3.7	3.7	89.51	1.7	200.0	200.0	193.5	6.42	31.133		
1,800.0	1,800.0	1,793.0	1,793.0	3.8	3.8	89.51	1.7	200.0	200.0	193.5	6.47	30.912		
1,805.0	1,805.0	1,798.0	1,798.0	3.8	3.8	89.51	1.7	200.0	200.0	193.5	6.47	30.899		
1,900.0	1,900.0	1,893.0	1,893.0	3.9	3.8	89.51	1.7	200.0	200.0	193.4	6.52	30.658		
1,995.0	1,995.0	1,988.0	1,988.0	3.9	3.9	89.51	1.7	200.0	200.0	193.4	6.58	30.410		
2,000.0	2,000.0	1,993.0	1,993.0	3.9	3.9	89.51	1.7	200.0	200.0	193.4	6.58	30.397 CC, ES		
2,090.0	2,090.0	2,083.0	2,083.0	4.1	4.0	104.90	1.7	200.0	200.3	193.7	6.62	30.251		
2,100.0	2,100.0	2,093.0	2,093.0	4.2	4.0	104.99	1.7	200.0	200.4	193.8	6.63	30.242		
2,185.0	2,184.9	2,177.9	2,177.9	4.7	4.1	106.12	1.7	200.0	201.5	194.9	6.69	30.140		
2,200.0	2,199.8	2,192.8	2,192.8	4.8	4.1	106.39	1.7	200.0	201.8	195.1	6.70	30.130		
2,250.0	2,249.7	2,242.7	2,242.7	4.9	4.2	107.43	1.7	200.0	203.0	196.2	6.75	30.061		
2,280.0	2,279.6	2,272.6	2,272.6	5.0	4.2	108.13	1.7	200.0	203.8	197.0	6.79	30.007		
2,300.0	2,299.5	2,292.5	2,292.5	5.0	4.2	108.59	1.7	200.0	204.3	197.5	6.82	29.971		
2,375.0	2,374.2	2,367.2	2,367.2	5.1	4.3	110.31	1.7	200.0	206.5	199.6	6.95	29.728		
2,400.0	2,399.1	2,392.1	2,392.1	5.1	4.3	110.87	1.7	200.0	207.3	200.3	6.99	29.650		
2,470.0	2,468.8	2,461.8	2,461.8	5.2	4.4	112.42	1.7	200.0	209.5	202.4	7.14	29.343		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 10280-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,498.7	2,491.7	2,491.7	5.3	4.4	113.08	1.7	200.0	210.6	203.3	7.21	29.214		
2,535.0	2,533.6	2,525.9	2,525.9	5.3	4.4	113.79	1.8	200.0	211.8	204.5	7.29	29.071		
2,565.0	2,563.5	2,555.0	2,555.0	5.3	4.4	121.08	2.2	200.2	213.2	205.8	7.36	28.958		
2,600.0	2,598.4	2,589.1	2,589.1	5.4	4.5	129.77	2.9	200.7	215.2	207.7	7.45	28.894		
2,660.0	2,658.1	2,647.4	2,647.3	5.6	4.5	144.20	5.0	201.9	219.7	212.1	7.62	28.821 SF		
2,700.0	2,698.0	2,686.2	2,686.0	5.8	4.6	152.83	6.9	203.0	223.5	215.8	7.74	28.892		
2,755.0	2,752.8	2,740.4	2,740.2	6.1	4.6	162.91	10.2	204.9	229.6	221.7	7.87	29.183		
2,800.0	2,797.5	2,785.0	2,784.7	6.4	4.7	169.61	12.9	206.4	235.2	227.2	7.98	29.482		
2,850.0	2,847.2	2,834.5	2,834.0	6.6	4.7	175.58	15.9	208.1	242.1	233.9	8.15	29.693		
2,900.0	2,896.8	2,883.8	2,883.2	6.9	4.7	-179.75	18.9	209.9	249.6	241.3	8.32	29.996		
2,945.0	2,941.4	2,928.1	2,927.4	7.0	4.8	-176.45	21.5	211.4	257.0	248.4	8.61	29.868		
3,000.0	2,995.7	2,982.1	2,981.2	7.2	4.8	-173.33	24.8	213.3	266.9	258.0	8.91	29.957		
3,040.0	3,035.2	3,021.2	3,020.2	7.4	4.9	-171.57	27.1	214.6	274.6	265.4	9.16	29.972		
3,100.0	3,094.2	3,079.6	3,078.5	7.6	4.9	-169.54	30.7	216.7	287.1	277.5	9.55	30.058		
3,135.0	3,128.5	3,113.6	3,112.4	7.6	5.0	-168.63	32.7	217.9	294.8	285.1	9.68	30.445		
3,156.0	3,149.1	3,133.9	3,132.7	7.7	5.0	-168.17	34.0	218.6	299.7	289.9	9.77	30.688		
3,200.0	3,192.1	3,176.4	3,175.1	7.8	5.0	-169.02	36.5	220.1	310.0	300.1	9.89	31.351		
3,230.0	3,221.4	3,205.4	3,204.0	7.8	5.0	-169.56	38.3	221.1	317.1	307.1	9.98	31.789		
3,300.0	3,289.9	3,273.1	3,271.5	8.0	5.1	-170.75	42.4	223.4	333.7	323.6	10.18	32.774		
3,325.0	3,314.4	3,297.3	3,295.7	8.0	5.1	-171.15	43.8	224.3	339.7	329.4	10.26	33.096		
3,400.0	3,387.7	3,369.8	3,368.0	8.2	5.2	-172.25	48.2	226.8	357.7	347.2	10.51	34.024		
3,420.0	3,407.3	3,389.1	3,387.3	8.3	5.2	-172.53	49.4	227.5	362.5	351.9	10.58	34.259		
3,500.0	3,485.5	3,466.5	3,464.4	8.5	5.3	-173.57	54.0	230.2	381.9	371.0	10.86	35.167		
3,515.0	3,500.2	3,481.0	3,478.9	8.5	5.3	-173.75	54.9	230.7	385.5	374.6	10.91	35.329		
3,600.0	3,583.3	3,563.1	3,560.9	8.7	5.4	-174.73	59.9	233.5	406.2	395.0	11.22	36.214		
3,610.0	3,593.1	3,572.8	3,570.5	8.8	5.4	-174.84	60.5	233.9	408.7	397.4	11.25	36.313		
3,700.0	3,681.2	3,659.8	3,657.3	9.0	5.5	-175.76	65.7	236.9	430.7	419.1	11.59	37.173		
3,705.0	3,686.0	3,664.7	3,662.1	9.0	5.5	-175.81	66.0	237.1	431.9	420.3	11.61	37.219		
3,800.0	3,779.0	3,756.5	3,753.8	9.3	5.6	-176.68	71.6	240.3	455.3	443.3	11.96	38.054		
3,895.0	3,871.9	3,848.4	3,845.4	9.6	5.7	-177.46	77.1	243.5	478.8	466.4	12.33	38.824		
3,900.0	3,876.8	3,853.2	3,850.2	9.6	5.7	-177.50	77.4	243.7	480.0	467.7	12.35	38.863		
3,990.0	3,964.8	3,940.2	3,937.0	9.8	5.8	-178.18	82.7	246.7	502.3	489.6	12.71	39.535		
4,000.0	3,974.6	3,949.9	3,946.7	9.9	5.8	-178.25	83.3	247.0	504.8	492.0	12.74	39.607		
4,085.0	4,057.7	4,032.0	4,028.6	10.1	5.9	-178.83	88.2	249.9	525.9	512.8	13.08	40.193		
4,100.0	4,072.4	4,046.6	4,043.1	10.2	5.9	-178.92	89.1	250.4	529.6	516.5	13.14	40.292		
4,180.0	4,150.7	4,123.9	4,120.3	10.4	6.0	-179.42	93.8	253.1	549.6	536.1	13.47	40.802		
4,200.0	4,170.2	4,143.2	4,139.6	10.5	6.0	-179.54	94.9	253.8	554.6	541.0	13.55	40.925		
4,275.0	4,243.6	4,215.7	4,211.9	10.7	6.1	-179.96	99.3	256.3	573.3	559.4	13.86	41.367		
4,300.0	4,268.0	4,239.9	4,236.0	10.8	6.1	179.90	100.8	257.1	579.5	565.6	13.96	41.509		
4,370.0	4,336.5	4,307.6	4,303.5	11.0	6.2	179.54	104.9	259.5	597.0	582.8	14.25	41.891		
4,400.0	4,365.9	4,336.6	4,332.4	11.1	6.2	179.39	106.6	260.5	604.6	590.2	14.38	42.050		
4,465.0	4,429.4	4,399.4	4,395.1	11.3	6.3	179.07	110.4	262.7	620.8	606.2	14.65	42.379		
4,500.0	4,463.7	4,433.3	4,428.9	11.4	6.3	178.91	112.5	263.9	629.6	614.8	14.80	42.550		
4,560.0	4,522.4	4,491.3	4,486.8	11.6	6.4	178.64	116.0	265.9	644.7	629.6	15.05	42.833		
4,600.0	4,561.5	4,530.0	4,525.3	11.8	6.4	178.47	118.3	267.3	654.7	639.5	15.22	43.015		
4,655.0	4,615.3	4,583.1	4,578.4	11.9	6.5	178.25	121.5	269.1	668.5	653.1	15.46	43.256		
4,700.0	4,659.3	4,626.6	4,621.8	12.1	6.5	178.07	124.1	270.6	679.9	664.2	15.65	43.447		
4,750.0	4,708.2	4,675.0	4,670.0	12.3	6.6	177.88	127.1	272.3	692.4	676.6	15.86	43.651		
4,800.0	4,757.1	4,723.9	4,718.8	12.4	6.6	177.69	130.0	274.0	705.0	688.9	16.08	43.844		
4,845.0	4,801.1	4,771.2	4,766.0	12.6	6.7	177.53	132.7	275.5	716.2	699.9	16.29	43.978		
4,900.0	4,854.9	4,829.3	4,824.0	12.8	6.8	177.37	135.4	277.2	729.6	713.0	16.54	44.118		

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 FEDERAL COM #803Y
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Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10280-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
4,940.0	4,894.1	4,871.7	4,866.4	12.9	6.8	177.29	137.1	278.1	739.0	722.3	16.72	44.204
5,000.0	4,952.8	4,935.5	4,930.1	13.1	6.9	177.20	139.2	279.3	752.9	735.9	16.99	44.308
5,035.0	4,987.0	4,972.8	4,967.4	13.2	6.9	177.16	140.1	279.9	760.8	743.7	17.15	44.356
5,100.0	5,050.6	5,042.3	5,036.9	13.5	7.0	177.14	141.3	280.5	775.1	757.7	17.45	44.420
5,130.0	5,079.9	5,074.5	5,069.1	13.6	7.0	177.15	141.6	280.7	781.6	764.0	17.59	44.438
5,200.0	5,148.4	5,146.8	5,141.4	13.8	7.1	177.19	141.7	280.8	796.2	778.3	17.89	44.500
5,225.0	5,172.8	5,171.2	5,165.8	13.9	7.2	177.21	141.7	280.8	801.4	783.4	17.99	44.534
5,300.0	5,246.2	5,244.6	5,239.2	14.2	7.2	177.26	141.7	280.8	817.0	798.7	18.30	44.633
5,320.0	5,265.8	5,264.2	5,258.8	14.2	7.3	177.28	141.7	280.8	821.1	802.7	18.39	44.659
5,400.0	5,344.0	5,342.4	5,337.0	14.5	7.4	177.33	141.7	280.8	837.7	819.0	18.72	44.757
5,415.0	5,358.7	5,357.1	5,351.7	14.6	7.4	177.34	141.7	280.8	840.8	822.1	18.78	44.775
5,500.0	5,441.8	5,440.2	5,434.8	14.9	7.5	177.40	141.7	280.8	858.5	839.4	19.13	44.872
5,510.0	5,451.6	5,450.0	5,444.6	14.9	7.5	177.40	141.7	280.8	860.6	841.4	19.17	44.883
5,600.0	5,539.6	5,538.0	5,532.6	15.2	7.6	177.46	141.7	280.8	879.3	859.7	19.55	44.978
5,605.0	5,544.5	5,542.9	5,537.5	15.2	7.6	177.46	141.7	280.8	880.3	860.7	19.57	44.984
5,700.0	5,637.5	5,635.9	5,630.5	15.6	7.7	177.52	141.7	280.8	900.0	880.1	19.97	45.077
5,795.0	5,730.4	5,728.8	5,723.4	15.9	7.8	177.57	141.7	280.8	919.8	899.4	20.36	45.165
5,800.0	5,735.3	5,733.7	5,728.3	15.9	7.8	177.57	141.7	280.8	920.8	900.4	20.39	45.169
5,890.0	5,823.3	5,821.7	5,816.3	16.3	7.9	177.62	141.7	280.8	939.5	918.7	20.76	45.247
5,900.0	5,833.1	5,831.5	5,826.1	16.3	7.9	177.63	141.7	280.8	941.6	920.8	20.81	45.255
5,985.0	5,916.2	5,914.6	5,909.2	16.6	8.0	177.67	141.7	280.8	959.2	938.1	21.16	45.323
6,000.0	5,930.9	5,929.3	5,923.9	16.7	8.0	177.68	141.7	280.8	962.4	941.1	21.23	45.335
6,080.0	6,009.2	6,007.6	6,002.2	17.0	8.1	177.72	141.7	280.8	979.0	957.4	21.57	45.395
6,100.0	6,028.7	6,027.1	6,021.7	17.0	8.2	177.73	141.7	280.8	983.1	961.5	21.65	45.409
6,175.0	6,102.1	6,100.5	6,095.1	17.3	8.3	177.76	141.7	280.8	998.7	976.7	21.97	45.461

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	89.51	1.5	170.0	170.3				
95.0	95.0	86.0	86.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.00	28.339	
100.0	100.0	91.0	91.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.00	28.338	
190.0	190.0	181.0	181.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.00	28.328	
200.0	200.0	191.0	191.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.00	28.326	
285.0	285.0	276.0	276.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.01	28.304	
300.0	300.0	291.0	291.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.01	28.298	
380.0	380.0	371.0	371.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.02	28.265	
400.0	400.0	391.0	391.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.02	28.256	
475.0	475.0	466.0	466.0	3.0	3.0	89.51	1.5	170.0	170.0	164.0	6.03	28.214	
500.0	500.0	491.0	491.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.03	28.198	
570.0	570.0	561.0	561.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.04	28.148	
600.0	600.0	591.0	591.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.05	28.125	
665.0	665.0	656.0	656.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.06	28.070	
700.0	700.0	691.0	691.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.06	28.038	
760.0	760.0	751.0	751.0	3.1	3.1	89.51	1.5	170.0	170.0	164.0	6.08	27.980	
800.0	800.0	791.0	791.0	3.2	3.1	89.51	1.5	170.0	170.0	163.9	6.09	27.938	
855.0	855.0	846.0	846.0	3.2	3.2	89.51	1.5	170.0	170.0	163.9	6.10	27.877	
900.0	900.0	891.0	891.0	3.2	3.2	89.51	1.5	170.0	170.0	163.9	6.11	27.823	
950.0	950.0	941.0	941.0	3.2	3.2	89.51	1.5	170.0	170.0	163.9	6.12	27.762	
1,000.0	1,000.0	991.0	991.0	3.2	3.2	89.51	1.5	170.0	170.0	163.9	6.14	27.696	
1,045.0	1,045.0	1,036.0	1,036.0	3.3	3.3	89.51	1.5	170.0	170.0	163.9	6.15	27.635	
1,100.0	1,100.0	1,091.0	1,091.0	3.3	3.3	89.51	1.5	170.0	170.0	163.9	6.17	27.557	
1,140.0	1,140.0	1,131.0	1,131.0	3.3	3.3	89.51	1.5	170.0	170.0	163.9	6.18	27.498	
1,200.0	1,200.0	1,191.0	1,191.0	3.4	3.3	89.51	1.5	170.0	170.0	163.8	6.20	27.405	
1,235.0	1,235.0	1,226.0	1,226.0	3.4	3.4	89.51	1.5	170.0	170.0	163.8	6.22	27.350	
1,300.0	1,300.0	1,291.0	1,291.0	3.4	3.4	89.51	1.5	170.0	170.0	163.8	6.24	27.243	
1,330.0	1,330.0	1,321.0	1,321.0	3.4	3.4	89.51	1.5	170.0	170.0	163.8	6.25	27.192	
1,400.0	1,400.0	1,391.0	1,391.0	3.5	3.5	89.51	1.5	170.0	170.0	163.8	6.28	27.070	
1,425.0	1,425.0	1,416.0	1,416.0	3.5	3.5	89.51	1.5	170.0	170.0	163.7	6.29	27.025	
1,500.0	1,500.0	1,491.0	1,491.0	3.5	3.5	89.51	1.5	170.0	170.0	163.7	6.32	26.887	
1,520.0	1,520.0	1,511.0	1,511.0	3.6	3.6	89.51	1.5	170.0	170.0	163.7	6.33	26.849	
1,600.0	1,600.0	1,591.0	1,591.0	3.6	3.6	89.51	1.5	170.0	170.0	163.7	6.37	26.695	
1,615.0	1,615.0	1,606.0	1,606.0	3.6	3.6	89.51	1.5	170.0	170.0	163.7	6.38	26.665	
1,700.0	1,700.0	1,691.0	1,691.0	3.7	3.7	89.51	1.5	170.0	170.0	163.6	6.42	26.494	
1,710.0	1,710.0	1,701.0	1,701.0	3.7	3.7	89.51	1.5	170.0	170.0	163.6	6.42	26.474	
1,800.0	1,800.0	1,791.0	1,791.0	3.8	3.8	89.51	1.5	170.0	170.0	163.6	6.47	26.286	
1,805.0	1,805.0	1,796.0	1,796.0	3.8	3.8	89.51	1.5	170.0	170.0	163.6	6.47	26.275	
1,900.0	1,900.0	1,891.0	1,891.0	3.9	3.8	89.51	1.5	170.0	170.0	163.5	6.52	26.070	
1,995.0	1,995.0	1,986.0	1,986.0	3.9	3.9	89.51	1.5	170.0	170.0	163.5	6.58	25.860	
2,000.0	2,000.0	1,991.0	1,991.0	3.9	3.9	89.51	1.5	170.0	170.0	163.5	6.58	25.848 CC, ES	
2,090.0	2,090.0	2,081.0	2,081.0	4.1	4.0	104.96	1.5	170.0	170.4	163.8	6.62	25.733	
2,100.0	2,100.0	2,091.0	2,091.0	4.2	4.0	105.07	1.5	170.0	170.5	163.9	6.63	25.726	
2,185.0	2,184.9	2,175.9	2,175.9	4.7	4.1	106.41	1.5	170.0	171.6	164.9	6.69	25.664	
2,200.0	2,199.8	2,190.8	2,190.8	4.8	4.1	106.72	1.5	170.0	171.9	165.2	6.70	25.662	
2,250.0	2,249.7	2,240.7	2,240.7	4.9	4.2	107.94	1.5	170.0	173.1	166.3	6.75	25.626	
2,280.0	2,279.6	2,270.6	2,270.6	5.0	4.2	108.76	1.5	170.0	173.9	167.1	6.79	25.596	
2,300.0	2,299.5	2,290.5	2,290.5	5.0	4.2	109.30	1.5	170.0	174.5	167.7	6.82	25.576	
2,375.0	2,374.2	2,365.2	2,365.2	5.1	4.3	111.29	1.5	170.0	176.8	169.8	6.96	25.411	
2,400.0	2,399.1	2,390.1	2,390.1	5.1	4.3	111.94	1.5	170.0	177.6	170.6	7.00	25.359	
2,470.0	2,468.8	2,459.8	2,459.8	5.2	4.4	113.74	1.5	170.0	179.9	172.8	7.16	25.140	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 10092-MWD+IFR1+FDIR				Rule Assigned:				Offset Well Error: 3.0 usft				
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		
2,500.0	2,498.7	2,489.7	2,489.7	5.3	4.4	114.49	1.5	170.0	181.0	173.8	7.23	25.050		
2,535.0	2,533.6	2,526.2	2,526.2	5.3	4.4	115.40	1.5	169.9	182.2	174.9	7.31	24.926		
2,565.0	2,563.5	2,558.1	2,558.1	5.3	4.4	122.90	1.7	169.5	183.0	175.6	7.39	24.764		
2,600.0	2,598.4	2,595.3	2,595.3	5.4	4.5	131.87	2.1	168.6	183.9	176.4	7.49	24.560		
2,660.0	2,658.1	2,659.3	2,659.2	5.6	4.5	146.86	3.3	166.0	185.1	177.4	7.68	24.102		
2,700.0	2,698.0	2,702.0	2,701.8	5.8	4.5	155.93	4.4	163.6	185.7	177.9	7.80	23.803		
2,755.0	2,752.8	2,760.0	2,759.7	6.1	4.6	166.59	6.4	159.3	186.3	178.4	7.95	23.426		
2,800.0	2,797.5	2,805.0	2,804.5	6.4	4.6	173.69	8.0	155.8	187.0	179.0	8.08	23.160		
2,850.0	2,847.2	2,855.0	2,854.3	6.6	4.6	-179.97	9.8	151.8	188.4	180.1	8.28	22.753		
2,900.0	2,896.8	2,904.9	2,904.0	6.9	4.7	-175.02	11.6	147.8	190.4	182.0	8.48	22.460		
2,945.0	2,941.4	2,949.9	2,948.8	7.0	4.7	-171.55	13.3	144.3	192.8	184.0	8.81	21.892		
3,000.0	2,995.7	3,004.7	3,003.4	7.2	4.7	-168.32	15.2	139.9	196.4	187.3	9.13	21.518		
3,040.0	3,035.2	3,044.5	3,043.0	7.4	4.8	-166.55	16.7	136.8	199.5	190.1	9.39	21.254		
3,100.0	3,094.2	3,104.1	3,102.4	7.6	4.8	-164.61	18.9	132.1	205.0	195.2	9.80	20.924 SF		
3,135.0	3,128.5	3,138.8	3,137.0	7.6	4.8	-163.80	20.1	129.3	208.7	198.8	9.93	21.023		
3,156.0	3,149.1	3,159.6	3,157.7	7.7	4.8	-163.42	20.9	127.7	211.1	201.1	10.01	21.098		
3,200.0	3,192.1	3,203.1	3,201.1	7.8	4.9	-164.39	22.4	124.2	216.3	206.2	10.12	21.374		
3,230.0	3,221.4	3,232.8	3,230.7	7.8	4.9	-165.03	23.5	121.9	219.8	209.6	10.20	21.555		
3,300.0	3,289.9	3,302.1	3,299.7	8.0	4.9	-166.44	26.0	116.4	228.2	217.8	10.39	21.964		
3,325.0	3,314.4	3,326.8	3,324.3	8.0	5.0	-166.92	26.9	114.4	231.3	220.8	10.47	22.092		
3,400.0	3,387.7	3,401.1	3,398.3	8.2	5.0	-168.28	29.6	108.5	240.4	229.7	10.70	22.466		
3,420.0	3,407.3	3,420.9	3,418.0	8.3	5.0	-168.63	30.4	107.0	242.9	232.1	10.77	22.560		
3,500.0	3,485.5	3,500.0	3,496.9	8.5	5.1	-169.95	33.2	100.7	252.9	241.9	11.03	22.928		
3,515.0	3,500.2	3,514.9	3,511.7	8.5	5.1	-170.18	33.8	99.5	254.8	243.7	11.08	22.993		
3,600.0	3,583.3	3,599.0	3,595.5	8.7	5.2	-171.45	36.8	92.8	265.5	254.1	11.37	23.354		
3,610.0	3,593.1	3,608.9	3,605.3	8.8	5.2	-171.60	37.2	92.1	266.8	255.4	11.40	23.394		
3,700.0	3,681.2	3,698.0	3,694.0	9.0	5.3	-172.83	40.4	85.0	278.3	266.6	11.72	23.747		
3,705.0	3,686.0	3,702.9	3,699.0	9.0	5.3	-172.89	40.6	84.6	279.0	267.2	11.74	23.765		
3,800.0	3,779.0	3,796.9	3,792.6	9.3	5.3	-174.08	44.0	77.2	291.3	279.2	12.08	24.110		
3,895.0	3,871.9	3,891.0	3,886.3	9.6	5.4	-175.17	47.4	69.7	303.7	291.2	12.43	24.429		
3,900.0	3,876.8	3,895.9	3,891.2	9.6	5.4	-175.22	47.6	69.3	304.3	291.9	12.45	24.445		
3,990.0	3,964.8	3,985.0	3,980.0	9.8	5.5	-176.17	50.8	62.3	316.2	303.4	12.79	24.725		
4,000.0	3,974.6	3,994.9	3,989.8	9.9	5.5	-176.27	51.2	61.5	317.5	304.7	12.83	24.755		
4,085.0	4,057.7	4,079.0	4,073.6	10.1	5.6	-177.10	54.2	54.8	328.8	315.6	13.15	25.000		
4,100.0	4,072.4	4,093.8	4,088.4	10.2	5.6	-177.24	54.8	53.6	330.8	317.6	13.21	25.042		
4,180.0	4,150.7	4,173.0	4,167.3	10.4	5.7	-177.95	57.7	47.4	341.4	327.9	13.52	25.256		
4,200.0	4,170.2	4,192.8	4,187.0	10.5	5.7	-178.13	58.4	45.8	344.1	330.5	13.60	25.308		
4,275.0	4,243.6	4,267.0	4,260.9	10.7	5.8	-178.75	61.1	39.9	354.2	340.3	13.89	25.494		
4,300.0	4,268.0	4,291.8	4,285.6	10.8	5.8	-178.95	62.0	38.0	357.6	343.6	13.99	25.555		
4,370.0	4,336.5	4,361.1	4,354.6	11.0	5.8	-179.49	64.5	32.5	367.0	352.7	14.27	25.716		
4,400.0	4,365.9	4,390.7	4,384.2	11.1	5.9	-179.72	65.6	30.1	371.1	356.7	14.39	25.783		
4,465.0	4,429.4	4,455.1	4,448.3	11.3	5.9	179.81	67.9	25.0	379.9	365.2	14.65	25.923		
4,500.0	4,463.7	4,489.7	4,482.8	11.4	6.0	179.57	69.1	22.3	384.6	369.8	14.80	25.996		
4,560.0	4,522.4	4,549.1	4,541.9	11.6	6.0	179.17	71.3	17.6	392.8	377.7	15.04	26.116		
4,600.0	4,561.5	4,588.7	4,581.4	11.8	6.1	178.91	72.7	14.4	398.2	383.0	15.20	26.193		
4,655.0	4,615.3	4,643.1	4,635.6	11.9	6.1	178.56	74.7	10.1	405.7	390.3	15.43	26.296		
4,700.0	4,659.3	4,687.6	4,680.0	12.1	6.2	178.29	76.3	6.6	411.9	396.3	15.62	26.377		
4,750.0	4,708.2	4,737.1	4,729.2	12.3	6.2	178.00	78.1	2.7	418.7	402.9	15.82	26.464		
4,800.0	4,757.1	4,786.6	4,778.5	12.4	6.3	177.71	79.9	-1.3	425.6	409.6	16.03	26.548		
4,845.0	4,801.1	4,831.1	4,822.9	12.6	6.3	177.46	81.5	-4.8	431.8	415.6	16.22	26.621		
4,900.0	4,854.9	4,885.6	4,877.1	12.8	6.4	177.17	83.5	-9.1	439.4	422.9	16.45	26.707		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-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		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,940.0	4,894.1	4,925.2	4,916.6	12.9	6.4	176.96	85.0	-12.2	444.9	428.2	16.62	26.767		
5,000.0	4,952.8	4,984.5	4,975.7	13.1	6.5	176.66	87.1	-16.9	453.1	436.3	16.87	26.855		
5,035.0	4,987.0	5,019.2	5,010.2	13.2	6.5	176.49	88.4	-19.7	458.0	441.0	17.02	26.905		
5,100.0	5,050.6	5,083.5	5,074.3	13.5	6.6	176.18	90.7	-24.8	467.0	449.7	17.30	26.994		
5,130.0	5,079.9	5,113.2	5,103.9	13.6	6.6	176.04	91.8	-27.1	471.1	453.7	17.43	27.033		
5,200.0	5,148.4	5,182.5	5,172.9	13.8	6.7	175.72	94.3	-32.6	480.8	463.1	17.73	27.123		
5,225.0	5,172.8	5,207.2	5,197.5	13.9	6.7	175.61	95.2	-34.6	484.3	466.4	17.83	27.154		
5,300.0	5,246.2	5,281.4	5,271.5	14.2	6.8	175.30	97.9	-40.5	494.7	476.5	18.16	27.243		
5,320.0	5,265.8	5,301.2	5,291.2	14.2	6.8	175.21	98.6	-42.0	497.5	479.2	18.24	27.266		
5,400.0	5,344.0	5,380.4	5,370.1	14.5	6.9	174.89	101.5	-48.3	508.6	490.0	18.59	27.356		
5,415.0	5,358.7	5,395.3	5,384.9	14.6	6.9	174.83	102.0	-49.5	510.7	492.0	18.66	27.372		
5,500.0	5,441.8	5,479.4	5,468.7	14.9	7.0	174.51	105.1	-56.1	522.5	503.5	19.03	27.461		
5,510.0	5,451.6	5,489.3	5,478.5	14.9	7.0	174.47	105.4	-56.9	523.9	504.8	19.07	27.471		
5,600.0	5,539.6	5,578.3	5,567.3	15.2	7.1	174.15	108.7	-64.0	536.5	517.0	19.47	27.559		
5,605.0	5,544.5	5,583.3	5,572.2	15.2	7.1	174.13	108.8	-64.4	537.2	517.7	19.49	27.564		
5,700.0	5,637.5	5,677.3	5,665.9	15.6	7.2	173.80	112.3	-71.8	550.4	530.5	19.91	27.651		
5,795.0	5,730.4	5,771.3	5,759.5	15.9	7.3	173.49	115.7	-79.3	563.7	543.4	20.33	27.733		
5,800.0	5,735.3	5,776.3	5,764.4	15.9	7.3	173.48	115.9	-79.7	564.4	544.1	20.35	27.737		
5,890.0	5,823.3	5,865.3	5,853.2	16.3	7.4	173.20	119.1	-86.7	577.0	556.3	20.75	27.809		
5,900.0	5,833.1	5,875.2	5,863.0	16.3	7.4	173.17	119.4	-87.5	578.4	557.6	20.79	27.817		
5,985.0	5,916.2	5,959.4	5,946.8	16.6	7.5	172.91	122.5	-94.2	590.3	569.2	21.17	27.881		
6,000.0	5,930.9	5,974.2	5,961.6	16.7	7.5	172.87	123.0	-95.4	592.4	571.2	21.24	27.893		
6,080.0	6,009.2	6,053.4	6,040.5	17.0	7.6	172.64	125.9	-101.6	603.7	582.1	21.60	27.949		
6,100.0	6,028.7	6,073.2	6,060.2	17.0	7.6	172.59	126.6	-103.2	606.5	584.8	21.69	27.963		
6,175.0	6,102.1	6,147.4	6,134.2	17.3	7.7	172.38	129.3	-109.1	617.0	595.0	22.03	28.013		
6,200.0	6,126.5	6,172.1	6,158.8	17.4	7.7	172.32	130.2	-111.0	620.5	598.4	22.14	28.029		
6,270.0	6,195.0	6,236.4	6,222.8	17.6	7.8	172.17	132.4	-115.8	630.6	608.2	22.44	28.103		
6,300.0	6,224.3	6,263.8	6,250.1	17.8	7.8	172.12	133.3	-117.7	635.1	612.6	22.57	28.142		
6,365.0	6,287.9	6,322.9	6,309.2	18.0	7.9	172.04	134.9	-121.3	645.3	622.4	22.85	28.242		
6,400.0	6,322.2	6,354.7	6,340.9	18.1	7.9	172.01	135.7	-123.0	650.9	627.9	23.00	28.304		
6,460.0	6,380.8	6,409.2	6,395.3	18.3	8.0	171.99	136.9	-125.5	661.0	637.7	23.26	28.423		
6,500.0	6,420.0	6,445.4	6,431.4	18.5	8.0	171.99	137.5	-127.0	667.9	644.5	23.43	28.511		
6,555.0	6,473.8	6,495.0	6,481.1	18.7	8.1	172.01	138.3	-128.6	677.8	654.1	23.66	28.643		
6,600.0	6,517.8	6,535.6	6,521.6	18.9	8.1	172.05	138.7	-129.6	686.1	662.3	23.86	28.759		
6,650.0	6,566.7	6,580.5	6,566.6	19.0	8.2	172.11	139.1	-130.5	695.6	671.6	24.07	28.897		
6,700.0	6,615.6	6,625.4	6,611.4	19.2	8.2	172.18	139.4	-131.0	705.5	681.2	24.28	29.051		
6,745.0	6,659.6	6,665.6	6,651.7	19.4	8.3	172.26	139.5	-131.2	714.6	690.1	24.47	29.201		
6,800.0	6,713.4	6,718.4	6,704.4	19.6	8.3	172.38	139.5	-131.2	725.9	701.2	24.70	29.389		
6,840.0	6,752.5	6,757.5	6,743.5	19.7	8.4	172.47	139.5	-131.2	734.1	709.3	24.87	29.523		
6,900.0	6,811.2	6,816.2	6,802.2	20.0	8.4	172.59	139.5	-131.2	746.5	721.4	25.12	29.720		
6,935.0	6,845.5	6,850.5	6,836.5	20.1	8.5	172.67	139.5	-131.2	753.7	728.5	25.26	29.833		
7,000.0	6,909.0	6,914.0	6,900.0	20.3	8.5	172.79	139.5	-131.2	767.1	741.6	25.54	30.040		
7,030.0	6,938.4	6,943.4	6,929.4	20.5	8.6	172.85	139.5	-131.2	773.3	747.7	25.66	30.134		
7,100.0	7,006.9	7,011.9	6,997.9	20.7	8.6	172.98	139.5	-131.2	787.8	761.8	25.96	30.349		
7,125.0	7,031.3	7,036.3	7,022.3	20.8	8.7	173.03	139.5	-131.2	792.9	766.9	26.06	30.424		
7,200.0	7,104.7	7,109.7	7,095.7	21.1	8.7	173.16	139.5	-131.2	808.4	782.0	26.38	30.647		
7,220.0	7,124.2	7,129.2	7,115.2	21.2	8.8	173.20	139.5	-131.2	812.6	786.1	26.46	30.706		
7,300.0	7,202.5	7,207.5	7,193.5	21.5	8.9	173.34	139.5	-131.2	829.1	802.3	26.80	30.936		
7,315.0	7,217.2	7,222.2	7,208.2	21.5	8.9	173.36	139.5	-131.2	832.2	805.3	26.86	30.978		
7,400.0	7,300.3	7,305.3	7,291.3	21.8	9.0	173.50	139.5	-131.2	849.7	822.5	27.22	31.215		
7,410.0	7,310.1	7,315.1	7,301.1	21.9	9.0	173.51	139.5	-131.2	851.8	824.5	27.26	31.242		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR												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)	Factor	
7,500.0	7,398.1	7,403.1	7,389.1	22.2	9.1	173.65	139.5	-131.2	870.4	842.8	27.64	31.485	
7,505.0	7,403.0	7,408.0	7,394.0	22.2	9.1	173.66	139.5	-131.2	871.4	843.8	27.67	31.498	
7,600.0	7,495.9	7,500.9	7,486.9	22.6	9.2	173.80	139.5	-131.2	891.1	863.0	28.07	31.746	
7,695.0	7,588.9	7,593.9	7,579.9	22.9	9.3	173.93	139.5	-131.2	910.7	882.2	28.47	31.987	
7,700.0	7,593.8	7,598.7	7,584.8	23.0	9.3	173.94	139.5	-131.2	911.7	883.3	28.49	31.999	
7,790.0	7,681.8	7,686.8	7,672.8	23.3	9.4	174.06	139.5	-131.2	930.4	901.5	28.87	32.220	
7,800.0	7,691.6	7,696.6	7,682.6	23.3	9.4	174.08	139.5	-131.2	932.4	903.5	28.92	32.245	
7,885.0	7,774.7	7,779.7	7,765.7	23.7	9.5	174.19	139.5	-131.2	950.0	920.7	29.28	32.447	
7,900.0	7,789.4	7,794.4	7,780.4	23.7	9.5	174.21	139.5	-131.2	953.1	923.8	29.34	32.482	
7,980.0	7,867.6	7,872.6	7,858.6	24.0	9.6	174.30	139.5	-131.2	969.7	940.0	29.68	32.667	
8,000.0	7,887.2	7,892.2	7,878.2	24.1	9.6	174.33	139.5	-131.2	973.8	944.0	29.77	32.712	
8,075.0	7,960.6	7,965.6	7,951.6	24.4	9.7	174.42	139.5	-131.2	989.3	959.2	30.09	32.880	
8,100.0	7,985.0	7,990.0	7,976.0	24.5	9.7	174.45	139.5	-131.2	994.5	964.3	30.20	32.935	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,600.0	7,495.9	7,625.0	7,598.0	22.6	9.2	18.71	89.6	-1,967.7	991.8	962.5	29.31	33.843		
7,695.0	7,588.9	7,715.3	7,687.9	22.9	9.3	19.31	91.6	-1,958.5	964.2	934.4	29.76	32.402		
7,700.0	7,593.8	7,720.1	7,692.6	23.0	9.3	19.34	91.7	-1,958.0	962.7	932.9	29.78	32.328		
7,790.0	7,681.8	7,805.7	7,777.7	23.3	9.4	19.94	93.6	-1,949.3	936.6	906.4	30.21	31.007		
7,800.0	7,691.6	7,815.2	7,787.2	23.3	9.4	20.01	93.9	-1,948.3	933.7	903.5	30.25	30.863		
7,885.0	7,774.7	7,896.0	7,867.6	23.7	9.5	20.61	95.7	-1,940.1	909.2	878.5	30.66	29.656		
7,900.0	7,789.4	7,910.3	7,881.8	23.7	9.5	20.72	96.0	-1,938.6	904.9	874.1	30.73	29.447		
7,980.0	7,867.6	7,986.4	7,957.4	24.0	9.6	21.32	97.7	-1,930.8	881.9	850.8	31.11	28.348		
8,000.0	7,887.2	8,005.4	7,976.4	24.1	9.6	21.48	98.1	-1,928.9	876.1	844.9	31.20	28.078		
8,075.0	7,960.6	8,076.8	8,047.3	24.4	9.7	22.08	99.7	-1,921.6	854.7	823.1	31.56	27.081		
8,100.0	7,985.0	8,100.5	8,070.9	24.5	9.7	22.28	100.3	-1,919.2	847.6	815.9	31.68	26.755		
8,170.0	8,053.5	8,167.1	8,137.2	24.7	9.8	22.88	101.7	-1,912.4	827.7	795.6	32.01	25.855		
8,200.0	8,082.8	8,195.6	8,165.5	24.9	9.8	23.14	102.4	-1,909.5	819.1	787.0	32.15	25.475		
8,265.0	8,146.4	8,257.5	8,227.0	25.1	9.9	23.74	103.8	-1,903.2	800.8	768.3	32.46	24.667		
8,300.0	8,180.6	8,290.8	8,260.1	25.2	10.0	24.07	104.5	-1,899.8	790.9	758.3	32.63	24.239		
8,360.0	8,239.3	8,347.8	8,316.9	25.5	10.0	24.65	105.8	-1,893.9	774.1	741.2	32.92	23.516		
8,400.0	8,278.5	8,385.9	8,354.7	25.6	10.1	25.06	106.7	-1,890.1	762.9	729.8	33.11	23.043		
8,455.0	8,332.3	8,438.2	8,406.7	25.8	10.1	25.63	107.8	-1,884.7	747.6	714.2	33.37	22.403		
8,500.0	8,376.3	8,481.0	8,449.3	26.0	10.2	26.12	108.8	-1,880.3	735.1	701.5	33.59	21.888		
8,550.0	8,425.2	8,528.5	8,496.6	26.2	10.2	26.68	109.8	-1,875.5	721.3	687.5	33.82	21.326		
8,600.0	8,474.1	8,576.1	8,543.9	26.4	10.3	27.26	110.9	-1,870.6	707.6	673.5	34.06	20.773		
8,645.0	8,518.1	8,618.9	8,586.5	26.5	10.4	27.81	111.9	-1,866.3	695.3	661.0	34.28	20.284		
8,700.0	8,571.9	8,671.2	8,638.5	26.7	10.4	28.50	113.0	-1,860.9	680.4	645.8	34.54	19.696		
8,740.0	8,611.0	8,709.2	8,676.3	26.9	10.5	29.02	113.9	-1,857.0	669.5	634.8	34.73	19.276		
8,800.0	8,669.7	8,766.3	8,733.1	27.1	10.5	29.83	115.2	-1,851.2	653.4	618.4	35.02	18.658		
8,835.0	8,704.0	8,799.6	8,766.2	27.3	10.6	30.32	115.9	-1,847.8	644.1	608.9	35.19	18.303		
8,900.0	8,767.5	8,857.7	8,824.0	27.5	10.7	31.21	117.2	-1,842.0	627.0	591.5	35.52	17.651		
8,930.0	8,796.9	8,884.0	8,850.2	27.6	10.7	31.62	117.7	-1,839.6	619.3	583.7	35.68	17.358		
9,000.0	8,865.3	8,945.6	8,911.5	27.9	10.8	32.58	118.9	-1,834.3	602.0	566.0	36.05	16.700		
9,025.0	8,889.8	8,967.7	8,933.5	28.0	10.8	32.92	119.3	-1,832.6	596.0	559.8	36.18	16.474		
9,106.4	8,969.4	9,039.9	9,005.6	28.3	10.9	34.07	120.4	-1,827.5	577.2	540.6	36.61	15.768		
9,120.0	8,982.7	9,052.1	9,017.7	28.3	10.9	34.22	120.6	-1,826.7	574.2	537.5	36.68	15.653		
9,200.0	9,061.3	9,124.0	9,089.6	28.7	11.0	35.10	121.4	-1,822.7	558.0	520.9	37.11	15.037		
9,215.0	9,076.1	9,137.6	9,103.1	28.7	11.0	35.25	121.6	-1,822.0	555.3	518.1	37.20	14.930		
9,300.0	9,160.0	9,215.2	9,180.6	29.1	11.1	36.06	122.3	-1,818.9	541.8	504.1	37.68	14.378		
9,310.0	9,169.9	9,224.4	9,189.8	29.1	11.1	36.14	122.4	-1,818.5	540.4	502.6	37.73	14.320		
9,400.0	9,259.2	9,307.5	9,272.9	29.5	11.2	36.82	122.8	-1,816.4	529.7	491.4	38.24	13.853		
9,405.0	9,264.2	9,312.1	9,277.5	29.5	11.2	36.85	122.8	-1,816.3	529.2	490.9	38.26	13.830		
9,500.0	9,358.8	9,400.6	9,365.9	29.9	11.3	37.35	123.0	-1,815.4	521.7	482.9	38.78	13.451		
9,595.0	9,453.7	9,494.3	9,459.7	30.2	11.4	37.65	123.0	-1,815.4	517.5	478.3	39.21	13.199		
9,600.0	9,458.7	9,499.3	9,464.7	30.2	11.4	37.66	123.0	-1,815.4	517.4	478.1	39.23	13.188		
9,690.0	9,548.6	9,589.3	9,554.6	30.6	11.5	37.77	123.0	-1,815.4	515.8	476.3	39.56	13.038		
9,706.4	9,565.0	9,605.6	9,571.0	30.6	11.5	-60.35	123.0	-1,815.4	515.8	476.2	39.63	13.017		
9,785.0	9,643.6	9,684.3	9,649.6	30.9	11.5	-60.35	123.0	-1,815.4	515.8	475.9	39.88	12.933		
9,800.0	9,658.6	9,699.3	9,664.6	30.9	11.6	-60.35	123.0	-1,815.4	515.8	475.9	39.93	12.917		
9,880.0	9,738.6	9,779.3	9,744.6	31.1	11.6	-60.35	123.0	-1,815.4	515.8	475.6	40.19	12.833		
9,900.0	9,758.6	9,799.3	9,764.6	31.2	11.7	-60.35	123.0	-1,815.4	515.8	475.5	40.26	12.812		
9,975.0	9,833.6	9,874.3	9,839.6	31.4	11.7	-60.35	123.0	-1,815.4	515.8	475.3	40.51	12.734		
10,000.0	9,858.6	9,899.3	9,864.6	31.5	11.7	-60.35	123.0	-1,815.4	515.8	475.2	40.59	12.708		
10,070.0	9,928.6	9,969.3	9,934.6	31.7	11.8	-60.35	123.0	-1,815.4	515.8	475.0	40.82	12.636		
10,100.0	9,958.6	9,999.3	9,964.6	31.8	11.8	-60.35	123.0	-1,815.4	515.8	474.9	40.92	12.605		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		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)	Factor		
10,165.0	10,023.6	10,064.3	10,029.6	32.0	11.9	-60.35	123.0	-1,815.4	515.8	474.7	41.14	12,538	
10,200.0	10,058.6	10,106.5	10,071.9	32.1	11.9	-60.37	122.9	-1,815.4	515.8	474.6	41.20	12,519	
10,260.0	10,118.6	10,232.8	10,196.2	32.3	12.5	-62.34	102.8	-1,815.3	511.0	470.1	40.93	12,485	
10,300.0	10,158.6	10,308.1	10,266.3	32.4	12.5	-65.14	75.5	-1,815.1	504.1	463.2	40.93	12,315	
10,355.0	10,213.6	10,395.4	10,341.0	32.6	12.6	-70.04	30.5	-1,814.8	491.5	450.4	41.18	11,936	
10,363.9	10,222.5	10,407.7	10,350.8	32.6	12.6	-70.88	23.1	-1,814.8	489.3	448.1	41.24	11,865	
10,375.0	10,233.6	10,422.6	10,362.5	32.6	12.6	108.76	13.8	-1,814.7	486.6	445.4	41.17	11,818	
10,400.0	10,258.6	10,454.5	10,386.4	32.6	12.7	107.16	-7.3	-1,814.6	480.6	439.3	41.29	11,640	
10,425.0	10,283.5	10,484.5	10,407.5	32.6	12.7	105.58	-28.6	-1,814.4	475.0	433.6	41.43	11,466	
10,450.0	10,308.2	10,512.8	10,426.2	32.7	12.7	104.02	-49.8	-1,814.3	469.8	428.2	41.58	11,299	
10,475.0	10,332.6	10,539.6	10,442.7	32.7	12.8	102.48	-70.9	-1,814.2	465.0	423.3	41.74	11,142	
10,500.0	10,356.8	10,565.2	10,457.3	32.7	12.8	100.95	-91.9	-1,814.1	460.8	418.9	41.91	10,996	
10,525.0	10,380.6	10,589.6	10,470.2	32.7	12.8	99.43	-112.7	-1,813.9	457.1	415.0	42.08	10,863	
10,545.0	10,399.3	10,608.5	10,479.5	32.7	12.9	98.21	-129.1	-1,813.8	454.6	412.3	42.22	10,766	
10,550.0	10,404.0	10,613.1	10,481.6	32.7	12.9	97.91	-133.2	-1,813.8	454.0	411.7	42.26	10,744	
10,575.0	10,426.8	10,635.7	10,491.6	32.7	12.9	96.38	-153.5	-1,813.7	451.4	409.0	42.43	10,638	
10,600.0	10,449.1	10,657.6	10,500.4	32.7	12.9	94.85	-173.5	-1,813.6	449.4	406.8	42.61	10,547	
10,625.0	10,470.8	10,678.8	10,508.0	32.8	13.0	93.31	-193.3	-1,813.4	448.0	405.2	42.78	10,470	
10,640.0	10,483.5	10,691.2	10,512.0	32.8	13.0	92.39	-205.1	-1,813.4	447.4	404.5	42.89	10,430	
10,650.0	10,491.8	10,699.4	10,514.5	32.8	13.0	91.77	-212.8	-1,813.3	447.1	404.1	42.96	10,407	
10,675.0	10,512.1	10,719.5	10,520.0	32.8	13.0	90.22	-232.1	-1,813.2	446.7	403.6	43.14	10,356	
10,678.0	10,514.5	10,721.9	10,520.7	32.8	13.0	90.03	-234.5	-1,813.2	446.7	403.6	43.16	10,350 CC	
10,700.0	10,531.6	10,739.1	10,524.7	32.8	13.1	88.67	-251.2	-1,813.1	446.9	403.6	43.32	10,317	
10,725.0	10,550.2	10,758.2	10,528.4	32.8	13.1	87.11	-270.0	-1,813.0	447.6	404.1	43.51	10,289	
10,735.0	10,557.4	10,765.8	10,529.7	32.9	13.1	86.49	-277.4	-1,812.9	448.1	404.5	43.58	10,281	
10,750.0	10,567.9	10,777.0	10,531.4	32.9	13.1	85.55	-288.5	-1,812.9	448.8	405.1	43.69	10,272	
10,775.0	10,584.7	10,795.5	10,533.6	32.9	13.1	84.00	-306.9	-1,812.7	450.4	406.5	43.89	10,264	
10,800.0	10,600.5	10,813.6	10,535.1	32.9	13.2	82.46	-324.9	-1,812.6	452.5	408.4	44.08	10,265	
10,825.0	10,615.2	10,831.5	10,535.8	32.9	13.2	80.93	-342.8	-1,812.5	454.9	410.6	44.27	10,274	
10,830.0	10,618.1	10,835.0	10,535.9	32.9	13.2	80.62	-346.3	-1,812.5	455.4	411.1	44.31	10,277	
10,850.0	10,628.9	10,850.1	10,536.0	33.0	13.2	79.35	-361.4	-1,812.4	457.6	413.1	44.47	10,289	
10,875.0	10,641.5	10,871.7	10,535.9	33.0	13.3	77.66	-383.0	-1,812.3	460.5	415.8	44.68	10,307	
10,900.0	10,652.9	10,893.9	10,535.9	33.0	13.3	76.08	-405.2	-1,812.1	463.4	418.6	44.87	10,328	
10,925.0	10,663.1	10,916.7	10,535.8	33.0	13.3	74.63	-428.0	-1,812.0	466.3	421.2	45.06	10,348	
10,950.0	10,672.1	10,940.0	10,535.8	33.1	13.4	73.32	-451.3	-1,811.9	469.0	423.7	45.24	10,366	
10,975.0	10,679.9	10,963.8	10,535.7	33.1	13.4	72.16	-475.0	-1,811.7	471.4	426.0	45.41	10,381	
11,000.0	10,686.5	10,987.9	10,535.7	33.1	13.5	71.18	-499.2	-1,811.6	473.5	428.0	45.57	10,392	
11,020.0	10,690.8	11,007.4	10,535.6	33.1	13.5	70.53	-518.7	-1,811.4	475.0	429.3	45.69	10,396	
11,025.0	10,691.7	11,012.3	10,535.6	33.1	13.5	70.39	-523.6	-1,811.4	475.3	429.6	45.72	10,397	
11,050.0	10,695.7	11,037.0	10,535.6	33.2	13.6	69.78	-548.3	-1,811.3	476.7	430.9	45.87	10,393	
11,075.0	10,698.4	11,061.8	10,535.5	33.2	13.6	69.36	-573.1	-1,811.1	477.7	431.7	46.01	10,383	
11,100.0	10,699.8	11,086.8	10,535.5	33.2	13.7	69.15	-598.1	-1,811.0	478.2	432.1	46.14	10,365	
11,113.9	10,700.0	11,100.6	10,535.4	33.2	13.7	69.11	-611.9	-1,810.9	478.3	432.1	46.21	10,352	
11,115.0	10,700.0	11,101.8	10,535.4	33.2	13.7	69.11	-613.1	-1,810.9	478.3	432.1	46.21	10,350	
11,200.0	10,700.0	11,186.8	10,535.3	33.3	14.0	69.09	-698.1	-1,810.3	478.4	431.7	46.66	10,252	
11,210.0	10,700.0	11,196.8	10,535.3	33.4	14.0	69.09	-708.1	-1,810.3	478.4	431.7	46.72	10,240	
11,300.0	10,700.0	11,286.8	10,535.1	33.5	14.3	69.07	-798.1	-1,809.7	478.5	431.3	47.25	10,128	
11,305.0	10,700.0	11,291.8	10,535.1	33.5	14.3	69.07	-803.1	-1,809.7	478.5	431.2	47.28	10,122	
11,400.0	10,700.0	11,386.8	10,534.9	33.6	14.7	69.05	-898.0	-1,809.1	478.6	430.7	47.88	9,996	
11,495.0	10,700.0	11,481.8	10,534.7	33.8	15.1	69.03	-993.0	-1,808.5	478.7	430.2	48.53	9,864	
11,500.0	10,700.0	11,486.8	10,534.7	33.8	15.1	69.03	-998.0	-1,808.5	478.7	430.2	48.56	9,857	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)				
11,590.0	10,700.0	11,576.8	10,534.5	33.9	15.6	69.01	-1,088.0	-1,807.9	478.8	429.6	49.22	9.728
11,600.0	10,700.0	11,586.8	10,534.5	33.9	15.6	69.01	-1,098.0	-1,807.9	478.8	429.5	49.29	9.714
11,685.0	10,700.0	11,671.8	10,534.3	34.1	16.1	68.99	-1,183.0	-1,807.4	478.9	429.0	49.95	9.588
11,700.0	10,700.0	11,686.8	10,534.3	34.1	16.2	68.99	-1,198.0	-1,807.3	478.9	428.9	50.06	9.566
11,780.0	10,700.0	11,766.8	10,534.1	34.3	16.6	68.97	-1,278.0	-1,806.8	479.0	428.3	50.71	9.446
11,800.0	10,700.0	11,786.8	10,534.1	34.3	16.7	68.97	-1,298.0	-1,806.7	479.0	428.2	50.88	9.416
11,875.0	10,700.0	11,861.8	10,533.9	34.5	17.2	68.95	-1,373.0	-1,806.2	479.1	427.6	51.51	9.302
11,900.0	10,700.0	11,886.8	10,533.9	34.5	17.3	68.94	-1,398.0	-1,806.0	479.1	427.4	51.72	9.264
11,970.0	10,700.0	11,956.8	10,533.7	34.7	17.8	68.93	-1,468.0	-1,805.6	479.2	426.9	52.34	9.156
12,000.0	10,700.0	11,986.8	10,533.7	34.8	18.0	68.92	-1,498.0	-1,805.4	479.2	426.6	52.60	9.111
12,065.0	10,700.0	12,051.8	10,533.5	34.9	18.4	68.91	-1,563.0	-1,805.0	479.3	426.1	53.20	9.010
12,100.0	10,700.0	12,086.8	10,533.5	35.0	18.6	68.90	-1,598.0	-1,804.8	479.4	425.8	53.52	8.957
12,160.0	10,700.0	12,146.8	10,533.3	35.2	19.1	68.89	-1,658.0	-1,804.4	479.4	425.3	54.08	8.865
12,200.0	10,700.0	12,186.8	10,533.2	35.3	19.3	68.88	-1,698.0	-1,804.2	479.5	425.0	54.46	8.804
12,255.0	10,700.0	12,241.8	10,533.1	35.4	19.7	68.87	-1,753.0	-1,803.9	479.5	424.5	54.99	8.719
12,300.0	10,700.0	12,286.8	10,533.0	35.5	20.0	68.86	-1,798.0	-1,803.6	479.6	424.1	55.43	8.651
12,350.0	10,700.0	12,336.8	10,532.9	35.7	20.4	68.85	-1,848.0	-1,803.3	479.6	423.7	55.93	8.575
12,400.0	10,700.0	12,386.8	10,532.8	35.8	20.7	68.84	-1,898.0	-1,803.0	479.7	423.2	56.43	8.500
12,445.0	10,700.0	12,431.8	10,532.8	36.0	21.1	68.83	-1,943.0	-1,802.7	479.7	422.8	56.89	8.432
12,500.0	10,700.0	12,486.8	10,532.6	36.1	21.5	68.82	-1,998.0	-1,802.4	479.8	422.3	57.45	8.351
12,540.0	10,700.0	12,526.8	10,532.6	36.3	21.8	68.81	-2,038.0	-1,802.1	479.8	421.9	57.87	8.291
12,600.0	10,700.0	12,586.8	10,532.4	36.5	22.2	68.80	-2,098.0	-1,801.7	479.9	421.4	58.50	8.203
12,635.0	10,700.0	12,621.8	10,532.4	36.6	22.5	68.79	-2,133.0	-1,801.5	479.9	421.0	58.88	8.152
12,700.0	10,700.0	12,686.8	10,532.2	36.8	23.0	68.78	-2,198.0	-1,801.1	480.0	420.4	59.57	8.057
12,730.0	10,700.0	12,716.8	10,532.2	36.9	23.2	68.77	-2,228.0	-1,800.9	480.0	420.1	59.90	8.014
12,800.0	10,700.0	12,786.8	10,532.0	37.1	23.7	68.76	-2,298.0	-1,800.5	480.1	419.4	60.66	7.914
12,825.0	10,700.0	12,811.8	10,532.0	37.2	23.9	68.75	-2,323.0	-1,800.4	480.1	419.2	60.94	7.879
12,900.0	10,700.0	12,886.8	10,531.8	37.5	24.5	68.73	-2,398.0	-1,799.9	480.2	418.4	61.77	7.774
12,920.0	10,700.0	12,906.8	10,531.8	37.6	24.6	68.73	-2,418.0	-1,799.8	480.2	418.2	62.00	7.746
13,000.0	10,700.0	12,986.8	10,531.6	37.9	25.2	68.71	-2,498.0	-1,799.3	480.3	417.4	62.90	7.636
13,015.0	10,700.0	13,001.8	10,531.6	37.9	25.4	68.71	-2,513.0	-1,799.2	480.3	417.3	63.07	7.615
13,100.0	10,700.0	13,086.8	10,531.4	38.2	26.0	68.69	-2,598.0	-1,798.7	480.4	416.4	64.05	7.501
13,110.0	10,700.0	13,096.8	10,531.4	38.3	26.1	68.69	-2,608.0	-1,798.6	480.4	416.3	64.16	7.487
13,200.0	10,700.0	13,186.8	10,531.2	38.6	26.8	68.67	-2,698.0	-1,798.1	480.5	415.3	65.21	7.368
13,205.0	10,700.0	13,191.8	10,531.2	38.7	26.8	68.67	-2,703.0	-1,798.0	480.5	415.3	65.27	7.362
13,300.0	10,700.0	13,286.8	10,531.0	39.0	27.6	68.65	-2,798.0	-1,797.4	480.6	414.2	66.39	7.239
13,395.0	10,700.0	13,381.8	10,530.8	39.4	28.3	68.63	-2,893.0	-1,796.9	480.7	413.2	67.53	7.119
13,400.0	10,700.0	13,386.8	10,530.8	39.5	28.4	68.63	-2,898.0	-1,796.8	480.7	413.1	67.59	7.112
13,490.0	10,700.0	13,476.8	10,530.6	39.8	29.1	68.61	-2,988.0	-1,796.3	480.8	412.2	68.68	7.001
13,500.0	10,700.0	13,486.8	10,530.6	39.9	29.2	68.61	-2,998.0	-1,796.2	480.8	412.0	68.80	6.989
13,585.0	10,700.0	13,571.8	10,530.4	40.3	29.8	68.59	-3,083.0	-1,795.7	480.9	411.1	69.84	6.886
13,600.0	10,700.0	13,586.8	10,530.4	40.3	30.0	68.59	-3,098.0	-1,795.6	480.9	410.9	70.03	6.868
13,680.0	10,700.0	13,666.8	10,530.3	40.7	30.6	68.57	-3,178.0	-1,795.1	481.0	410.0	71.02	6.773
13,700.0	10,700.0	13,686.8	10,530.2	40.8	30.8	68.57	-3,198.0	-1,795.0	481.1	409.8	71.27	6.750
13,775.0	10,700.0	13,761.8	10,530.1	41.1	31.4	68.55	-3,273.0	-1,794.5	481.1	408.9	72.20	6.664
13,800.0	10,700.0	13,786.8	10,530.0	41.2	31.6	68.55	-3,298.0	-1,794.4	481.2	408.6	72.52	6.635
13,870.0	10,700.0	13,856.8	10,529.9	41.6	32.1	68.53	-3,368.0	-1,793.9	481.2	407.8	73.40	6.556
13,900.0	10,700.0	13,886.8	10,529.8	41.7	32.4	68.53	-3,398.0	-1,793.8	481.3	407.5	73.78	6.523
13,965.0	10,700.0	13,951.8	10,529.7	42.0	32.9	68.51	-3,463.0	-1,793.4	481.3	406.7	74.61	6.451
14,000.0	10,700.0	13,986.8	10,529.6	42.2	33.2	68.50	-3,498.0	-1,793.1	481.4	406.3	75.06	6.414
14,060.0	10,700.0	14,046.8	10,529.5	42.5	33.7	68.49	-3,558.0	-1,792.8	481.4	405.6	75.83	6.349

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
14,100.0	10,700.0	14,086.8	10,529.4	42.7	34.0	68.48	-3,598.0	-1,792.5	481.5	405.1	76.34	6.307	
14,155.0	10,700.0	14,141.8	10,529.3	42.9	34.5	68.47	-3,653.0	-1,792.2	481.5	404.5	77.05	6.249	
14,200.0	10,700.0	14,186.8	10,529.2	43.1	34.8	68.46	-3,698.0	-1,791.9	481.6	404.0	77.64	6.203	
14,250.0	10,700.0	14,236.8	10,529.1	43.4	35.2	68.45	-3,748.0	-1,791.6	481.6	403.4	78.29	6.152	
14,300.0	10,700.0	14,286.8	10,529.0	43.6	35.6	68.44	-3,798.0	-1,791.3	481.7	402.8	78.95	6.102	
14,345.0	10,700.0	14,331.8	10,528.9	43.9	36.0	68.43	-3,843.0	-1,791.0	481.7	402.2	79.54	6.057	
14,400.0	10,700.0	14,386.8	10,528.8	44.2	36.5	68.42	-3,898.0	-1,790.7	481.8	401.5	80.26	6.003	
14,440.0	10,700.0	14,426.8	10,528.7	44.4	36.8	68.41	-3,938.0	-1,790.4	481.8	401.1	80.79	5.964	
14,500.0	10,700.0	14,486.8	10,528.6	44.7	37.3	68.40	-3,998.0	-1,790.1	481.9	400.3	81.59	5.907	
14,535.0	10,700.0	14,521.8	10,528.5	44.9	37.6	68.39	-4,033.0	-1,789.9	481.9	399.9	82.06	5.873	
14,600.0	10,700.0	14,586.8	10,528.4	45.2	38.1	68.38	-4,098.0	-1,789.5	482.0	399.1	82.93	5.813	
14,630.0	10,700.0	14,616.8	10,528.3	45.4	38.4	68.37	-4,128.0	-1,789.3	482.1	398.7	83.33	5.785	
14,700.0	10,700.0	14,686.8	10,528.2	45.7	38.9	68.36	-4,198.0	-1,788.9	482.1	397.9	84.27	5.721	
14,725.0	10,700.0	14,711.8	10,528.1	45.9	39.1	68.35	-4,223.0	-1,788.7	482.2	397.5	84.61	5.699	
14,800.0	10,700.0	14,786.8	10,528.0	46.3	39.8	68.34	-4,298.0	-1,788.2	482.2	396.6	85.62	5.632	
14,820.0	10,700.0	14,806.8	10,528.0	46.4	39.9	68.33	-4,318.0	-1,788.1	482.3	396.4	85.89	5.615	
14,900.0	10,700.0	14,886.8	10,527.8	46.8	40.6	68.32	-4,398.0	-1,787.6	482.3	395.4	86.98	5.545	
14,915.0	10,700.0	14,901.8	10,527.8	46.9	40.7	68.31	-4,413.0	-1,787.5	482.4	395.2	87.19	5.532	
15,000.0	10,700.0	14,986.8	10,527.6	47.4	41.4	68.30	-4,498.0	-1,787.0	482.4	394.1	88.35	5.461	
15,010.0	10,700.0	14,996.8	10,527.6	47.4	41.5	68.29	-4,508.0	-1,786.9	482.5	394.0	88.49	5.452	
15,100.0	10,700.0	15,086.8	10,527.4	47.9	42.3	68.28	-4,598.0	-1,786.4	482.6	392.8	89.73	5.378	
15,105.0	10,700.0	15,091.8	10,527.4	47.9	42.3	68.27	-4,603.0	-1,786.4	482.6	392.8	89.79	5.374	
15,200.0	10,700.0	15,186.8	10,527.2	48.5	43.1	68.25	-4,698.0	-1,785.8	482.7	391.6	91.11	5.298	
15,295.0	10,700.0	15,281.8	10,527.0	49.0	43.9	68.24	-4,793.0	-1,785.2	482.8	390.3	92.43	5.223	
15,300.0	10,700.0	15,286.8	10,527.0	49.0	43.9	68.23	-4,798.0	-1,785.2	482.8	390.3	92.50	5.219	
15,390.0	10,700.0	15,376.8	10,526.8	49.6	44.7	68.22	-4,888.0	-1,784.6	482.9	389.1	93.75	5.150	
15,400.0	10,700.0	15,386.8	10,526.8	49.6	44.8	68.21	-4,898.0	-1,784.6	482.9	389.0	93.89	5.143	
15,485.0	10,700.0	15,471.8	10,526.6	50.1	45.5	68.20	-4,983.0	-1,784.0	483.0	387.9	95.08	5.079	
15,500.0	10,700.0	15,486.8	10,526.6	50.2	45.6	68.19	-4,998.0	-1,783.9	483.0	387.7	95.29	5.068	
15,580.0	10,700.0	15,566.8	10,526.4	50.7	46.3	68.18	-5,078.0	-1,783.4	483.1	386.7	96.42	5.010	
15,600.0	10,700.0	15,586.8	10,526.4	50.8	46.4	68.17	-5,098.0	-1,783.3	483.1	386.4	96.70	4.996	
15,675.0	10,700.0	15,661.8	10,526.2	51.2	47.1	68.16	-5,173.0	-1,782.9	483.2	385.4	97.76	4.942	
15,700.0	10,700.0	15,686.8	10,526.2	51.4	47.3	68.15	-5,197.9	-1,782.7	483.2	385.1	98.11	4.925	
15,770.0	10,700.0	15,756.8	10,526.0	51.8	47.9	68.14	-5,267.9	-1,782.3	483.3	384.2	99.11	4.876	
15,800.0	10,700.0	15,786.8	10,526.0	52.0	48.1	68.13	-5,297.9	-1,782.1	483.3	383.8	99.53	4.856	
15,865.0	10,700.0	15,851.8	10,525.8	52.3	48.6	68.12	-5,362.9	-1,781.7	483.4	382.9	100.46	4.812	
15,900.0	10,700.0	15,886.8	10,525.8	52.5	48.9	68.11	-5,397.9	-1,781.5	483.4	382.5	100.96	4.788	
15,960.0	10,700.0	15,946.8	10,525.6	52.9	49.4	68.10	-5,457.9	-1,781.1	483.5	381.7	101.81	4.749	
16,000.0	10,700.0	15,986.8	10,525.6	53.1	49.8	68.09	-5,497.9	-1,780.9	483.5	381.1	102.39	4.723	
16,055.0	10,700.0	16,041.8	10,525.5	53.5	50.2	68.08	-5,552.9	-1,780.5	483.6	380.4	103.18	4.687	
16,100.0	10,700.0	16,086.8	10,525.4	53.8	50.6	68.07	-5,597.9	-1,780.3	483.6	379.8	103.82	4.658	
16,150.0	10,700.0	16,136.7	10,525.3	54.1	51.0	68.06	-5,647.9	-1,779.9	483.7	379.1	104.54	4.627	
16,200.0	10,700.0	16,186.7	10,525.2	54.4	51.5	68.05	-5,697.9	-1,779.6	483.7	378.5	105.26	4.596	
16,245.0	10,700.0	16,231.7	10,525.1	54.6	51.8	68.04	-5,742.9	-1,779.4	483.8	377.9	105.91	4.568	
16,300.0	10,700.0	16,286.7	10,525.0	55.0	52.3	68.03	-5,797.9	-1,779.0	483.9	377.1	106.70	4.535	
16,340.0	10,700.0	16,326.7	10,524.9	55.2	52.6	68.02	-5,837.9	-1,778.8	483.9	376.6	107.28	4.510	
16,400.0	10,700.0	16,386.7	10,524.8	55.6	53.1	68.01	-5,897.9	-1,778.4	484.0	375.8	108.15	4.475	
16,435.0	10,700.0	16,421.7	10,524.7	55.8	53.4	68.00	-5,932.9	-1,778.2	484.0	375.3	108.66	4.454	
16,500.0	10,700.0	16,486.7	10,524.6	56.2	54.0	67.99	-5,997.9	-1,777.8	484.1	374.5	109.60	4.417	
16,530.0	10,700.0	16,516.7	10,524.5	56.4	54.2	67.98	-6,027.9	-1,777.6	484.1	374.1	110.04	4.399	
16,600.0	10,700.0	16,586.7	10,524.4	56.8	54.8	67.97	-6,097.9	-1,777.2	484.2	373.1	111.06	4.360	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,625.0	10,700.0	16,611.7	10,524.3	57.0	55.0	67.96	-6,122.9	-1,777.0	484.2	372.8	111.43	4.346		
16,700.0	10,700.0	16,686.7	10,524.2	57.5	55.7	67.94	-6,197.9	-1,776.6	484.3	371.8	112.52	4.304		
16,720.0	10,700.0	16,706.7	10,524.1	57.6	55.8	67.94	-6,217.9	-1,776.4	484.3	371.5	112.81	4.293		
16,800.0	10,700.0	16,786.7	10,523.9	58.1	56.5	67.92	-6,297.9	-1,776.0	484.4	370.4	113.99	4.250		
16,815.0	10,700.0	16,801.7	10,523.9	58.2	56.6	67.92	-6,312.9	-1,775.9	484.4	370.2	114.21	4.242		
16,900.0	10,700.0	16,886.7	10,523.7	58.7	57.4	67.90	-6,397.9	-1,775.3	484.5	369.1	115.45	4.197		
16,910.0	10,700.0	16,896.7	10,523.7	58.8	57.5	67.90	-6,407.9	-1,775.3	484.5	368.9	115.60	4.191		
17,000.0	10,700.0	16,986.7	10,523.5	59.4	58.2	67.88	-6,497.9	-1,774.7	484.6	367.7	116.93	4.145		
17,005.0	10,700.0	16,991.7	10,523.5	59.4	58.3	67.88	-6,502.9	-1,774.7	484.6	367.6	117.00	4.142		
17,100.0	10,700.0	17,086.7	10,523.3	60.0	59.1	67.86	-6,597.9	-1,774.1	484.7	366.3	118.40	4.094		
17,195.0	10,700.0	17,181.7	10,523.2	60.6	59.9	67.84	-6,692.9	-1,773.5	484.8	365.0	119.80	4.047		
17,200.0	10,700.0	17,186.7	10,523.1	60.7	59.9	67.84	-6,697.9	-1,773.5	484.8	365.0	119.88	4.044		
17,290.0	10,700.0	17,276.7	10,523.0	61.2	60.7	67.82	-6,787.9	-1,773.0	484.9	363.7	121.21	4.001		
17,300.0	10,700.0	17,286.7	10,522.9	61.3	60.8	67.82	-6,797.9	-1,772.9	484.9	363.6	121.36	3.996		
17,385.0	10,700.0	17,371.7	10,522.8	61.9	61.5	67.80	-6,882.9	-1,772.4	485.0	362.4	122.62	3.956		
17,400.0	10,700.0	17,386.7	10,522.7	62.0	61.6	67.80	-6,897.9	-1,772.3	485.0	362.2	122.84	3.948		
17,480.0	10,700.0	17,466.7	10,522.6	62.5	62.3	67.78	-6,977.9	-1,771.8	485.1	361.1	124.03	3.911		
17,500.0	10,700.0	17,486.7	10,522.5	62.6	62.4	67.78	-6,997.9	-1,771.7	485.2	360.8	124.33	3.902		
17,575.0	10,700.0	17,561.7	10,522.4	63.1	63.1	67.77	-7,072.9	-1,771.2	485.2	359.8	125.45	3.868		
17,600.0	10,700.0	17,586.7	10,522.3	63.3	63.3	67.76	-7,097.9	-1,771.0	485.3	359.4	125.82	3.857		
17,670.0	10,700.0	17,656.7	10,522.2	63.7	63.9	67.75	-7,167.9	-1,770.6	485.3	358.5	126.87	3.826		
17,700.0	10,700.0	17,686.7	10,522.1	63.9	64.1	67.74	-7,197.9	-1,770.4	485.4	358.1	127.32	3.812		
17,765.0	10,700.0	17,751.7	10,522.0	64.3	64.7	67.73	-7,262.9	-1,770.0	485.4	357.2	128.29	3.784		
17,800.0	10,700.0	17,786.7	10,521.9	64.6	65.0	67.72	-7,297.9	-1,769.8	485.5	356.7	128.81	3.769		
17,860.0	10,700.0	17,846.7	10,521.8	65.0	65.5	67.71	-7,357.9	-1,769.5	485.6	355.8	129.71	3.743		
17,900.0	10,700.0	17,886.7	10,521.7	65.2	65.8	67.70	-7,397.9	-1,769.2	485.6	355.3	130.31	3.726		
17,955.0	10,700.0	17,941.7	10,521.6	65.6	66.3	67.69	-7,452.9	-1,768.9	485.7	354.5	131.14	3.703		
18,000.0	10,700.0	17,986.7	10,521.5	65.9	66.7	67.68	-7,497.9	-1,768.6	485.7	353.9	131.81	3.685		
18,050.0	10,700.0	18,036.7	10,521.4	66.2	67.1	67.67	-7,547.9	-1,768.3	485.8	353.2	132.56	3.664		
18,100.0	10,700.0	18,086.7	10,521.3	66.6	67.5	67.66	-7,597.9	-1,768.0	485.8	352.5	133.32	3.644		
18,145.0	10,700.0	18,131.7	10,521.2	66.9	67.9	67.65	-7,642.9	-1,767.7	485.9	351.9	133.99	3.626		
18,200.0	10,700.0	18,186.7	10,521.1	67.2	68.4	67.64	-7,697.9	-1,767.4	485.9	351.1	134.82	3.604		
18,240.0	10,700.0	18,226.7	10,521.0	67.5	68.7	67.63	-7,737.9	-1,767.1	486.0	350.5	135.43	3.588		
18,300.0	10,700.0	18,286.7	10,520.9	67.9	69.2	67.62	-7,797.9	-1,766.7	486.0	349.7	136.33	3.565		
18,335.0	10,700.0	18,321.7	10,520.8	68.1	69.5	67.61	-7,832.9	-1,766.5	486.1	349.2	136.86	3.552		
18,400.0	10,700.0	18,386.7	10,520.7	68.6	70.1	67.60	-7,897.9	-1,766.1	486.1	348.3	137.84	3.527		
18,430.0	10,700.0	18,416.7	10,520.7	68.8	70.3	67.59	-7,927.9	-1,766.0	486.2	347.9	138.30	3.515		
18,500.0	10,700.0	18,486.7	10,520.5	69.3	70.9	67.58	-7,997.9	-1,765.5	486.3	346.9	139.36	3.489		
18,525.0	10,700.0	18,511.7	10,520.5	69.4	71.2	67.57	-8,022.9	-1,765.4	486.3	346.5	139.73	3.480		
18,600.0	10,700.0	18,586.7	10,520.3	69.9	71.8	67.56	-8,097.9	-1,764.9	486.4	345.5	140.87	3.453		
18,620.0	10,700.0	18,606.7	10,520.3	70.1	72.0	67.55	-8,117.9	-1,764.8	486.4	345.2	141.17	3.445		
18,700.0	10,700.0	18,686.7	10,520.1	70.6	72.6	67.53	-8,197.9	-1,764.3	486.5	344.1	142.39	3.417		
18,715.0	10,700.0	18,701.7	10,520.1	70.7	72.8	67.53	-8,212.9	-1,764.2	486.5	343.9	142.62	3.411		
18,800.0	10,700.0	18,786.7	10,519.9	71.3	73.5	67.51	-8,297.9	-1,763.7	486.6	342.7	143.91	3.381		
18,810.0	10,700.0	18,796.7	10,519.9	71.4	73.6	67.51	-8,307.9	-1,763.6	486.6	342.5	144.06	3.378		
18,900.0	10,700.0	18,886.7	10,519.7	72.0	74.3	67.49	-8,397.9	-1,763.1	486.7	341.3	145.43	3.347		
18,905.0	10,700.0	18,891.7	10,519.7	72.0	74.4	67.49	-8,402.9	-1,763.0	486.7	341.2	145.50	3.345		
19,000.0	10,700.0	18,986.7	10,519.5	72.6	75.2	67.47	-8,497.9	-1,762.5	486.8	339.9	146.95	3.313		
19,095.0	10,700.0	19,081.7	10,519.3	73.3	76.0	67.45	-8,592.9	-1,761.9	486.9	338.5	148.40	3.281		
19,100.0	10,700.0	19,086.7	10,519.3	73.3	76.0	67.45	-8,597.9	-1,761.8	486.9	338.4	148.48	3.279		
19,190.0	10,700.0	19,176.7	10,519.1	74.0	76.8	67.43	-8,687.9	-1,761.3	487.0	337.2	149.85	3.250		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		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)	Factor	
19,200.0	10,700.0	19,186.7	10,519.1	74.0	76.9	67.43	-8,697.9	-1,761.2	487.0	337.0	150.00	3.247
19,285.0	10,700.0	19,271.7	10,518.9	74.6	77.6	67.42	-8,782.9	-1,760.7	487.1	335.8	151.30	3.220
19,300.0	10,700.0	19,286.7	10,518.9	74.7	77.7	67.41	-8,797.9	-1,760.6	487.1	335.6	151.53	3.215
19,380.0	10,700.0	19,366.7	10,518.7	75.3	78.4	67.40	-8,877.9	-1,760.1	487.2	334.5	152.75	3.190
19,400.0	10,700.0	19,386.7	10,518.7	75.4	78.6	67.39	-8,897.9	-1,760.0	487.2	334.2	153.06	3.183
19,475.0	10,700.0	19,461.7	10,518.5	75.9	79.2	67.38	-8,972.9	-1,759.5	487.3	333.1	154.21	3.160
19,500.0	10,700.0	19,486.7	10,518.5	76.1	79.5	67.37	-8,997.9	-1,759.4	487.4	332.8	154.59	3.153
19,570.0	10,700.0	19,556.7	10,518.3	76.6	80.0	67.36	-9,067.9	-1,759.0	487.4	331.8	155.66	3.131
19,600.0	10,700.0	19,586.7	10,518.3	76.8	80.3	67.35	-9,097.9	-1,758.8	487.5	331.3	156.12	3.122
19,665.0	10,700.0	19,651.7	10,518.2	77.2	80.9	67.34	-9,162.9	-1,758.4	487.5	330.4	157.12	3.103
19,700.0	10,700.0	19,686.7	10,518.1	77.5	81.2	67.33	-9,197.9	-1,758.2	487.6	329.9	157.66	3.093
19,760.0	10,700.0	19,746.7	10,518.0	77.9	81.7	67.32	-9,257.9	-1,757.8	487.6	329.1	158.58	3.075
19,800.0	10,700.0	19,786.7	10,517.9	78.2	82.0	67.31	-9,297.9	-1,757.5	487.7	328.5	159.20	3.063
19,855.0	10,700.0	19,841.7	10,517.8	78.6	82.5	67.30	-9,352.9	-1,757.2	487.7	327.7	160.04	3.048
19,900.0	10,700.0	19,886.7	10,517.7	78.9	82.9	67.29	-9,397.9	-1,756.9	487.8	327.1	160.73	3.035
19,950.0	10,700.0	19,936.7	10,517.6	79.2	83.3	67.28	-9,447.9	-1,756.6	487.9	326.3	161.50	3.021
20,000.0	10,700.0	19,986.7	10,517.5	79.6	83.7	67.27	-9,497.9	-1,756.3	487.9	325.6	162.27	3.007
20,045.0	10,700.0	20,031.7	10,517.4	79.9	84.1	67.26	-9,542.8	-1,756.0	488.0	325.0	162.96	2.994
20,100.0	10,700.0	20,086.7	10,517.3	80.3	84.6	67.25	-9,597.8	-1,755.7	488.0	324.2	163.81	2.979
20,140.0	10,700.0	20,126.7	10,517.2	80.5	84.9	67.24	-9,637.8	-1,755.5	488.1	323.6	164.43	2.968
20,200.0	10,700.0	20,186.7	10,517.1	81.0	85.4	67.23	-9,697.8	-1,755.1	488.1	322.8	165.35	2.952
20,235.0	10,700.0	20,221.7	10,517.0	81.2	85.7	67.22	-9,732.8	-1,754.9	488.2	322.3	165.89	2.943
20,300.0	10,700.0	20,286.7	10,516.9	81.7	86.3	67.21	-9,797.8	-1,754.5	488.2	321.3	166.90	2.925
20,330.0	10,700.0	20,316.7	10,516.8	81.9	86.5	67.20	-9,827.8	-1,754.3	488.3	320.9	167.36	2.917
20,400.0	10,700.0	20,386.7	10,516.7	82.4	87.1	67.19	-9,897.8	-1,753.9	488.3	319.9	168.44	2.899
20,425.0	10,700.0	20,411.7	10,516.6	82.5	87.3	67.18	-9,922.8	-1,753.7	488.4	319.6	168.83	2.893
20,500.0	10,700.0	20,486.7	10,516.5	83.1	88.0	67.17	-9,997.8	-1,753.2	488.5	318.5	169.99	2.874
20,520.0	10,700.0	20,506.7	10,516.4	83.2	88.2	67.16	-10,017.8	-1,753.1	488.5	318.2	170.30	2.868
20,601.5	10,700.0	20,588.2	10,516.3	83.8	88.9	67.15	-10,099.3	-1,752.6	488.6	317.0	171.56	2.848
20,615.0	10,700.0	20,601.7	10,516.2	83.9	89.0	67.15	-10,112.8	-1,752.5	488.6	316.8	171.77	2.845
20,700.0	10,700.0	20,686.7	10,516.1	84.5	89.7	67.13	-10,197.8	-1,752.0	488.7	315.6	173.08	2.823
20,710.0	10,700.0	20,696.7	10,516.0	84.5	89.8	67.13	-10,207.8	-1,752.0	488.7	315.5	173.24	2.821
20,731.5	10,700.0	20,718.2	10,516.0	84.7	90.0	67.12	-10,229.3	-1,751.8	488.7	315.2	173.57	2.816 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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #705H - OWB - PWP3													Offset Site Error: 3.0 usft	
Survey Program: Reference		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	
9,215.0	9,076.1	9,139.5	9,134.3	28.7	10.4	15.67	-1.4	-2,315.1	998.8	963.4	35.44	28.182		
9,300.0	9,160.0	9,222.6	9,217.3	29.1	10.5	15.84	-0.9	-2,310.7	981.7	945.8	35.90	27.342		
9,310.0	9,169.9	9,232.4	9,227.1	29.1	10.5	15.86	-0.9	-2,310.2	979.8	943.9	35.96	27.250		
9,400.0	9,259.2	9,321.0	9,315.6	29.5	10.6	16.02	-0.3	-2,305.4	964.6	928.1	36.44	26.467		
9,405.0	9,264.2	9,325.9	9,320.5	29.5	10.6	16.03	-0.3	-2,305.1	963.8	927.3	36.47	26.426		
9,500.0	9,358.8	9,420.0	9,414.4	29.9	10.7	16.17	0.2	-2,300.1	950.8	913.8	36.98	25.712		
9,595.0	9,453.7	9,514.4	9,508.7	30.2	10.8	16.28	0.8	-2,295.1	940.8	903.3	37.48	25.103		
9,600.0	9,458.7	9,519.4	9,513.7	30.2	10.8	16.29	0.8	-2,294.8	940.3	902.8	37.50	25.073		
9,690.0	9,548.6	9,609.1	9,603.3	30.6	10.8	16.36	1.3	-2,290.0	933.8	895.9	37.89	24.644		
9,706.4	9,565.0	9,625.4	9,619.6	30.6	10.9	-81.76	1.4	-2,289.1	932.9	894.9	37.96	24.574		
9,785.0	9,643.6	9,704.0	9,698.0	30.9	10.9	-81.69	1.9	-2,284.9	928.8	890.5	38.28	24.264		
9,800.0	9,658.6	9,718.9	9,713.0	30.9	10.9	-81.68	2.0	-2,284.1	928.0	889.7	38.34	24.205		
9,880.0	9,738.6	9,798.8	9,792.8	31.1	11.0	-81.62	2.4	-2,279.9	923.9	885.2	38.66	23.894		
9,900.0	9,758.6	9,818.8	9,812.7	31.2	11.0	-81.60	2.6	-2,278.8	922.8	884.1	38.75	23.818		
9,975.0	9,833.6	9,893.7	9,887.5	31.4	11.1	-81.53	3.0	-2,274.8	918.9	879.9	39.05	23.531		
10,000.0	9,858.6	9,918.7	9,912.4	31.5	11.1	-81.51	3.1	-2,273.4	917.6	878.5	39.15	23.437		
10,070.0	9,928.6	9,988.6	9,982.2	31.7	11.2	-81.45	3.6	-2,269.7	914.0	874.5	39.44	23.174		
10,100.0	9,958.6	10,018.5	10,012.1	31.8	11.2	-81.43	3.7	-2,268.1	912.4	872.9	39.56	23.063		
10,165.0	10,023.6	10,083.4	10,076.9	32.0	11.3	-81.37	4.1	-2,264.6	909.0	869.2	39.83	22.823		
10,200.0	10,058.6	10,118.4	10,111.8	32.1	11.3	-81.34	4.3	-2,262.8	907.2	867.2	39.97	22.696		
10,260.0	10,118.6	10,178.3	10,171.7	32.3	11.4	-81.29	4.7	-2,259.6	904.1	863.9	40.22	22.479		
10,300.0	10,158.6	10,218.2	10,211.5	32.4	11.4	-81.25	4.9	-2,257.4	902.0	861.6	40.38	22.340		
10,355.0	10,213.6	10,285.8	10,278.9	32.6	11.5	-81.31	3.4	-2,253.8	898.9	858.4	40.50	22.196		
10,363.9	10,222.5	10,298.3	10,291.4	32.6	11.5	-81.38	2.2	-2,253.1	898.3	857.8	40.51	22.174		
10,375.0	10,233.6	10,313.9	10,306.9	32.6	11.5	98.98	0.2	-2,252.3	897.6	857.1	40.47	22.176		
10,400.0	10,258.6	10,348.7	10,341.1	32.6	11.5	98.93	-5.9	-2,250.4	895.7	855.3	40.44	22.149		
10,425.0	10,283.5	10,383.1	10,374.3	32.6	11.5	98.84	-14.5	-2,248.6	893.9	853.4	40.42	22.113		
10,450.0	10,308.2	10,416.9	10,406.3	32.7	11.5	98.73	-25.2	-2,246.8	891.9	851.5	40.41	22.071		
10,475.0	10,332.6	10,450.3	10,437.1	32.7	11.5	98.58	-37.9	-2,245.1	890.0	849.6	40.42	22.021		
10,500.0	10,356.8	10,483.1	10,466.4	32.7	11.5	98.41	-52.5	-2,243.4	888.0	847.6	40.43	21.965		
10,525.0	10,380.6	10,515.3	10,494.1	32.7	11.6	98.20	-68.8	-2,241.8	886.1	845.6	40.46	21.902		
10,545.0	10,399.3	10,540.6	10,515.1	32.7	11.6	98.03	-82.9	-2,240.6	884.5	844.0	40.48	21.848		
10,550.0	10,404.0	10,546.9	10,520.2	32.7	11.6	97.98	-86.6	-2,240.3	884.1	843.6	40.49	21.834		
10,575.0	10,426.8	10,577.8	10,544.6	32.7	11.6	97.73	-105.6	-2,238.9	882.2	841.6	40.54	21.762		
10,600.0	10,449.1	10,608.2	10,567.3	32.7	11.6	97.47	-125.8	-2,237.5	880.3	839.7	40.60	21.684		
10,625.0	10,470.8	10,638.1	10,588.2	32.8	11.7	97.18	-147.0	-2,236.3	878.4	837.8	40.66	21.603		
10,640.0	10,483.5	10,655.6	10,599.9	32.8	11.7	97.00	-160.1	-2,235.6	877.4	836.6	40.71	21.553		
10,650.0	10,491.8	10,667.3	10,607.4	32.8	11.7	96.88	-169.0	-2,235.1	876.7	835.9	40.74	21.519		
10,675.0	10,512.1	10,695.9	10,624.9	32.8	11.7	96.56	-191.6	-2,234.0	874.9	834.1	40.82	21.433		
10,700.0	10,531.6	10,724.0	10,640.7	32.8	11.8	96.23	-214.8	-2,233.0	873.3	832.4	40.92	21.344		
10,725.0	10,550.2	10,751.5	10,654.9	32.8	11.8	95.88	-238.4	-2,232.1	871.8	830.8	41.02	21.254		
10,735.0	10,557.4	10,762.4	10,660.1	32.9	11.8	95.74	-247.9	-2,231.8	871.2	830.2	41.06	21.218		
10,750.0	10,567.9	10,778.5	10,667.4	32.9	11.8	95.52	-262.3	-2,231.3	870.4	829.2	41.13	21.164		
10,775.0	10,584.7	10,805.0	10,678.4	32.9	11.9	95.16	-286.4	-2,230.6	869.1	827.8	41.24	21.072		
10,800.0	10,600.5	10,831.1	10,687.9	32.9	11.9	94.78	-310.6	-2,229.9	867.9	826.5	41.36	20.981		
10,825.0	10,615.2	10,856.6	10,695.9	32.9	11.9	94.39	-334.9	-2,229.3	866.8	825.3	41.49	20.891		
10,830.0	10,618.1	10,861.7	10,697.3	32.9	11.9	94.31	-339.8	-2,229.2	866.6	825.1	41.52	20.873		
10,850.0	10,628.9	10,881.8	10,702.4	33.0	12.0	93.99	-359.2	-2,228.8	865.8	824.2	41.62	20.801		
10,875.0	10,641.5	10,906.5	10,707.7	33.0	12.0	93.59	-383.3	-2,228.4	865.0	823.2	41.76	20.713		
10,900.0	10,652.9	10,930.8	10,711.6	33.0	12.0	93.18	-407.3	-2,228.0	864.3	822.4	41.90	20.627		
10,925.0	10,663.1	10,954.7	10,714.2	33.0	12.1	92.76	-431.1	-2,227.7	863.7	821.7	42.04	20.543		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #705H - OWB - PWP3													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10243-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	
10,950.0	10,672.1	10,978.3	10,715.7	33.1	12.1	92.34	-454.6	-2,227.5	863.3	821.1	42.19	20.462		
10,975.0	10,679.9	11,001.7	10,716.0	33.1	12.1	91.92	-478.0	-2,227.3	863.0	820.6	42.34	20.383		
11,000.0	10,686.5	11,025.9	10,716.0	33.1	12.2	91.52	-502.2	-2,227.2	862.8	820.3	42.50	20.303		
11,020.0	10,690.8	11,045.4	10,716.0	33.1	12.2	91.25	-521.7	-2,227.1	862.7	820.1	42.62	20.242		
11,025.0	10,691.7	11,050.3	10,716.0	33.1	12.2	91.19	-526.6	-2,227.0	862.7	820.0	42.65	20.228		
11,050.0	10,695.7	11,075.0	10,716.0	33.2	12.2	90.94	-551.3	-2,226.9	862.6	819.8	42.79	20.157		
11,075.0	10,698.4	11,099.8	10,716.0	33.2	12.3	90.77	-576.1	-2,226.7	862.6	819.6	42.93	20.090		
11,100.0	10,699.8	11,124.8	10,716.0	33.2	12.3	90.68	-601.1	-2,226.6	862.5	819.5	43.08	20.022		
11,105.9	10,699.9	11,130.7	10,716.0	33.2	12.3	90.67	-607.0	-2,226.5	862.5	819.4	43.11	20.007	CC	
11,113.9	10,700.0	11,138.7	10,716.0	33.2	12.4	90.66	-615.0	-2,226.5	862.5	819.4	43.16	19.986		
11,115.0	10,700.0	11,139.8	10,716.0	33.2	12.4	90.66	-616.1	-2,226.5	862.5	819.4	43.16	19.983		
11,200.0	10,700.0	11,224.8	10,716.0	33.3	12.6	90.66	-701.1	-2,225.9	862.6	818.9	43.65	19.760		
11,210.0	10,700.0	11,234.8	10,716.0	33.4	12.6	90.66	-711.1	-2,225.9	862.6	818.9	43.71	19.732		
11,300.0	10,700.0	11,324.8	10,716.0	33.5	12.9	90.66	-801.1	-2,225.3	862.6	818.3	44.29	19.476		
11,305.0	10,700.0	11,329.8	10,716.0	33.5	12.9	90.66	-806.1	-2,225.3	862.6	818.3	44.32	19.460		
11,400.0	10,700.0	11,424.8	10,716.0	33.6	13.2	90.66	-901.1	-2,224.7	862.6	817.6	44.99	19.175		
11,495.0	10,700.0	11,519.8	10,716.0	33.8	13.6	90.66	-996.1	-2,224.1	862.6	816.9	45.70	18.878		
11,500.0	10,700.0	11,524.8	10,716.0	33.8	13.6	90.66	-1,001.1	-2,224.0	862.6	816.9	45.73	18.862		
11,590.0	10,700.0	11,614.8	10,716.0	33.9	14.1	90.66	-1,091.1	-2,223.5	862.6	816.2	46.45	18.572		
11,600.0	10,700.0	11,624.8	10,716.0	33.9	14.1	90.66	-1,101.1	-2,223.4	862.6	816.1	46.53	18.540		
11,685.0	10,700.0	11,709.8	10,716.0	34.1	14.6	90.66	-1,186.1	-2,222.9	862.7	815.4	47.24	18.262		
11,700.0	10,700.0	11,724.8	10,716.0	34.1	14.6	90.66	-1,201.1	-2,222.8	862.7	815.3	47.37	18.213		
11,780.0	10,700.0	11,804.8	10,716.0	34.3	15.1	90.66	-1,281.1	-2,222.3	862.7	814.6	48.06	17.949		
11,800.0	10,700.0	11,824.8	10,716.0	34.3	15.2	90.66	-1,301.1	-2,222.2	862.7	814.4	48.24	17.882		
11,875.0	10,700.0	11,899.8	10,716.0	34.5	15.7	90.66	-1,376.1	-2,221.7	862.7	813.8	48.92	17.634		
11,900.0	10,700.0	11,924.8	10,716.0	34.5	15.8	90.66	-1,401.1	-2,221.5	862.7	813.5	49.15	17.551		
11,970.0	10,700.0	11,994.8	10,716.0	34.7	16.3	90.66	-1,471.1	-2,221.1	862.7	812.9	49.81	17.319		
12,000.0	10,700.0	12,024.8	10,716.0	34.8	16.5	90.66	-1,501.1	-2,220.9	862.7	812.6	50.10	17.220		
12,065.0	10,700.0	12,089.8	10,716.0	34.9	16.9	90.66	-1,566.1	-2,220.5	862.7	812.0	50.73	17.006		
12,100.0	10,700.0	12,124.8	10,716.0	35.0	17.2	90.66	-1,601.1	-2,220.3	862.7	811.7	51.08	16.891		
12,160.0	10,700.0	12,184.8	10,716.0	35.2	17.6	90.66	-1,661.1	-2,219.9	862.8	811.1	51.68	16.695		
12,200.0	10,700.0	12,224.8	10,716.0	35.3	17.9	90.66	-1,701.1	-2,219.6	862.8	810.7	52.08	16.566		
12,255.0	10,700.0	12,279.8	10,716.0	35.4	18.2	90.66	-1,756.1	-2,219.3	862.8	810.1	52.65	16.388		
12,300.0	10,700.0	12,324.8	10,716.0	35.5	18.6	90.66	-1,801.1	-2,219.0	862.8	809.7	53.11	16.245		
12,350.0	10,700.0	12,374.8	10,716.0	35.7	18.9	90.66	-1,851.1	-2,218.7	862.8	809.2	53.64	16.086		
12,400.0	10,700.0	12,424.8	10,716.0	35.8	19.3	90.66	-1,901.1	-2,218.4	862.8	808.6	54.17	15.929		
12,445.0	10,700.0	12,469.8	10,716.0	36.0	19.6	90.66	-1,946.1	-2,218.1	862.8	808.2	54.65	15.788		
12,500.0	10,700.0	12,524.8	10,716.0	36.1	20.0	90.66	-2,001.1	-2,217.7	862.8	807.6	55.24	15.618		
12,540.0	10,700.0	12,564.8	10,716.0	36.3	20.3	90.66	-2,041.1	-2,217.5	862.8	807.1	55.68	15.495		
12,600.0	10,700.0	12,624.8	10,716.0	36.5	20.8	90.66	-2,101.1	-2,217.1	862.8	806.5	56.34	15.314		
12,635.0	10,700.0	12,659.8	10,716.0	36.6	21.0	90.66	-2,136.1	-2,216.9	862.8	806.1	56.74	15.208		
12,700.0	10,700.0	12,724.8	10,716.0	36.8	21.5	90.66	-2,201.1	-2,216.5	862.9	805.4	57.47	15.015		
12,730.0	10,700.0	12,754.8	10,716.0	36.9	21.8	90.66	-2,231.1	-2,216.3	862.9	805.1	57.81	14.927		
12,800.0	10,700.0	12,824.8	10,716.0	37.1	22.3	90.66	-2,301.1	-2,215.9	862.9	804.3	58.61	14.723		
12,825.0	10,700.0	12,849.8	10,716.0	37.2	22.5	90.66	-2,326.1	-2,215.7	862.9	804.0	58.89	14.651		
12,900.0	10,700.0	12,924.8	10,716.0	37.5	23.1	90.66	-2,401.1	-2,215.2	862.9	803.1	59.76	14.438		
12,920.0	10,700.0	12,944.8	10,716.0	37.6	23.2	90.66	-2,421.1	-2,215.1	862.9	802.9	60.00	14.382		
13,000.0	10,700.0	13,024.8	10,716.0	37.9	23.9	90.66	-2,501.1	-2,214.6	862.9	802.0	60.94	14.160		
13,015.0	10,700.0	13,039.8	10,716.0	37.9	24.0	90.66	-2,516.1	-2,214.5	862.9	801.8	61.12	14.119		
13,100.0	10,700.0	13,124.8	10,716.0	38.2	24.6	90.66	-2,601.0	-2,214.0	862.9	800.8	62.13	13.889		
13,110.0	10,700.0	13,134.8	10,716.0	38.3	24.7	90.66	-2,611.0	-2,213.9	862.9	800.7	62.25	13.862		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #705H - OWB - PWP3													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10243-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,200.0	10,700.0	13,224.8	10,716.0	38.6	25.4	90.66	-2,701.0	-2,213.3	863.0	799.6	63.34	13.624		
13,205.0	10,700.0	13,229.8	10,716.0	38.7	25.5	90.66	-2,706.0	-2,213.3	863.0	799.6	63.40	13.611		
13,300.0	10,700.0	13,324.8	10,716.0	39.0	26.2	90.66	-2,801.0	-2,212.7	863.0	798.4	64.56	13.366		
13,395.0	10,700.0	13,419.8	10,716.0	39.4	27.0	90.66	-2,896.0	-2,212.1	863.0	797.3	65.74	13.128		
13,400.0	10,700.0	13,424.8	10,716.0	39.5	27.0	90.66	-2,901.0	-2,212.1	863.0	797.2	65.80	13.115		
13,490.0	10,700.0	13,514.8	10,716.0	39.8	27.8	90.66	-2,991.0	-2,211.5	863.0	796.1	66.92	12.895		
13,500.0	10,700.0	13,524.8	10,716.0	39.9	27.8	90.66	-3,001.0	-2,211.4	863.0	796.0	67.05	12.871		
13,585.0	10,700.0	13,609.8	10,716.0	40.3	28.5	90.66	-3,086.0	-2,210.9	863.0	794.9	68.12	12.669		
13,600.0	10,700.0	13,624.8	10,716.0	40.3	28.7	90.66	-3,101.0	-2,210.8	863.0	794.7	68.31	12.633		
13,680.0	10,700.0	13,704.8	10,716.0	40.7	29.3	90.66	-3,181.0	-2,210.3	863.0	793.7	69.33	12.448		
13,700.0	10,700.0	13,724.8	10,716.0	40.8	29.5	90.66	-3,201.0	-2,210.2	863.1	793.5	69.59	12.402		
13,775.0	10,700.0	13,799.8	10,716.0	41.1	30.1	90.66	-3,276.0	-2,209.7	863.1	792.5	70.55	12.233		
13,800.0	10,700.0	13,824.8	10,716.0	41.2	30.3	90.66	-3,301.0	-2,209.6	863.1	792.2	70.88	12.177		
13,870.0	10,700.0	13,894.8	10,716.0	41.6	30.8	90.66	-3,371.0	-2,209.1	863.1	791.3	71.78	12.023		
13,900.0	10,700.0	13,924.8	10,716.0	41.7	31.1	90.66	-3,401.0	-2,208.9	863.1	790.9	72.17	11.958		
13,965.0	10,700.0	13,989.8	10,716.0	42.0	31.6	90.66	-3,466.0	-2,208.5	863.1	790.1	73.02	11.819		
14,000.0	10,700.0	14,024.8	10,716.0	42.2	31.9	90.66	-3,501.0	-2,208.3	863.1	789.6	73.48	11.746		
14,060.0	10,700.0	14,084.8	10,716.0	42.5	32.4	90.66	-3,561.0	-2,207.9	863.1	788.8	74.27	11.621		
14,100.0	10,700.0	14,124.8	10,716.0	42.7	32.7	90.66	-3,601.0	-2,207.7	863.1	788.3	74.80	11.539		
14,155.0	10,700.0	14,179.8	10,716.0	42.9	33.2	90.66	-3,656.0	-2,207.3	863.1	787.6	75.53	11.427		
14,200.0	10,700.0	14,224.8	10,716.0	43.1	33.6	90.66	-3,701.0	-2,207.0	863.1	787.0	76.13	11.337		
14,250.0	10,700.0	14,274.8	10,716.0	43.4	34.0	90.66	-3,751.0	-2,206.7	863.2	786.4	76.80	11.239		
14,300.0	10,700.0	14,324.8	10,716.0	43.6	34.4	90.66	-3,801.0	-2,206.4	863.2	785.7	77.47	11.142		
14,345.0	10,700.0	14,369.8	10,716.0	43.9	34.8	90.66	-3,846.0	-2,206.1	863.2	785.1	78.08	11.055		
14,400.0	10,700.0	14,424.8	10,716.0	44.2	35.2	90.66	-3,901.0	-2,205.8	863.2	784.4	78.82	10.952		
14,440.0	10,700.0	14,464.8	10,716.0	44.4	35.5	90.66	-3,941.0	-2,205.5	863.2	783.8	79.36	10.877		
14,500.0	10,700.0	14,524.8	10,716.0	44.7	36.0	90.66	-4,001.0	-2,205.1	863.2	783.0	80.18	10.767		
14,535.0	10,700.0	14,559.8	10,716.0	44.9	36.3	90.66	-4,036.0	-2,204.9	863.2	782.6	80.65	10.703		
14,600.0	10,700.0	14,624.8	10,716.0	45.2	36.9	90.66	-4,101.0	-2,204.5	863.2	781.7	81.54	10.587		
14,630.0	10,700.0	14,654.8	10,716.0	45.4	37.1	90.66	-4,131.0	-2,204.3	863.2	781.3	81.95	10.533		
14,700.0	10,700.0	14,724.8	10,716.0	45.7	37.7	90.66	-4,201.0	-2,203.9	863.2	780.3	82.91	10.412		
14,725.0	10,700.0	14,749.8	10,716.0	45.9	37.9	90.66	-4,226.0	-2,203.7	863.3	780.0	83.26	10.368		
14,800.0	10,700.0	14,824.8	10,716.0	46.3	38.5	90.66	-4,301.0	-2,203.3	863.3	779.0	84.29	10.241		
14,820.0	10,700.0	14,844.8	10,716.0	46.4	38.7	90.66	-4,321.0	-2,203.1	863.3	778.7	84.57	10.208		
14,900.0	10,700.0	14,924.8	10,716.0	46.8	39.4	90.66	-4,401.0	-2,202.6	863.3	777.6	85.68	10.076		
14,915.0	10,700.0	14,939.8	10,716.0	46.9	39.5	90.66	-4,416.0	-2,202.5	863.3	777.4	85.89	10.051		
15,000.0	10,700.0	15,024.8	10,716.0	47.4	40.2	90.66	-4,501.0	-2,202.0	863.3	776.2	87.07	9.914		
15,010.0	10,700.0	15,034.8	10,716.0	47.4	40.3	90.66	-4,511.0	-2,201.9	863.3	776.1	87.22	9.899		
15,100.0	10,700.0	15,124.8	10,716.0	47.9	41.0	90.66	-4,601.0	-2,201.4	863.3	774.8	88.48	9.758		
15,105.0	10,700.0	15,129.8	10,716.0	47.9	41.1	90.66	-4,606.0	-2,201.3	863.3	774.8	88.55	9.750		
15,200.0	10,700.0	15,224.8	10,716.0	48.5	41.9	90.66	-4,701.0	-2,200.7	863.3	773.5	89.88	9.605		
15,295.0	10,700.0	15,319.8	10,716.0	49.0	42.7	90.66	-4,796.0	-2,200.1	863.4	772.1	91.23	9.464		
15,300.0	10,700.0	15,324.8	10,716.0	49.0	42.7	90.66	-4,801.0	-2,200.1	863.4	772.1	91.30	9.456		
15,390.0	10,700.0	15,414.8	10,716.0	49.6	43.5	90.66	-4,891.0	-2,199.5	863.4	770.8	92.58	9.326		
15,400.0	10,700.0	15,424.8	10,716.0	49.6	43.6	90.66	-4,901.0	-2,199.5	863.4	770.7	92.72	9.312		
15,485.0	10,700.0	15,509.8	10,716.0	50.1	44.3	90.66	-4,986.0	-2,198.9	863.4	769.5	93.93	9.192		
15,500.0	10,700.0	15,524.8	10,716.0	50.2	44.4	90.66	-5,001.0	-2,198.8	863.4	769.3	94.14	9.171		
15,580.0	10,700.0	15,604.8	10,716.0	50.7	45.1	90.66	-5,081.0	-2,198.3	863.4	768.1	95.29	9.061		
15,600.0	10,700.0	15,624.8	10,716.0	50.8	45.2	90.66	-5,101.0	-2,198.2	863.4	767.8	95.58	9.034		
15,675.0	10,700.0	15,699.8	10,716.0	51.2	45.9	90.66	-5,176.0	-2,197.7	863.4	766.8	96.65	8.933		
15,700.0	10,700.0	15,724.8	10,716.0	51.4	46.1	90.66	-5,201.0	-2,197.6	863.4	766.4	97.01	8.900		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #705H - OWB - PWP3													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 10243-MWD+IFR1+FDIR						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	
15,770.0	10,700.0	15,794.8	10,716.0	51.8	46.7	90.66	-5,271.0	-2,197.1	863.5	765.4	98.02	8.809		
15,800.0	10,700.0	15,824.8	10,716.0	52.0	46.9	90.66	-5,301.0	-2,197.0	863.5	765.0	98.46	8.770		
15,865.0	10,700.0	15,889.8	10,716.0	52.3	47.5	90.66	-5,366.0	-2,196.5	863.5	764.1	99.40	8.687		
15,900.0	10,700.0	15,924.8	10,716.0	52.5	47.8	90.66	-5,401.0	-2,196.3	863.5	763.6	99.90	8.643		
15,960.0	10,700.0	15,984.8	10,716.0	52.9	48.3	90.66	-5,461.0	-2,196.0	863.5	762.7	100.77	8.569		
16,000.0	10,700.0	16,024.8	10,716.0	53.1	48.6	90.66	-5,501.0	-2,195.7	863.5	762.1	101.35	8.520		
16,055.0	10,700.0	16,079.8	10,716.0	53.5	49.1	90.66	-5,556.0	-2,195.4	863.5	761.4	102.16	8.453		
16,100.0	10,700.0	16,124.8	10,716.0	53.8	49.5	90.66	-5,601.0	-2,195.1	863.5	760.7	102.81	8.399		
16,150.0	10,700.0	16,174.8	10,716.0	54.1	49.9	90.66	-5,651.0	-2,194.8	863.5	760.0	103.54	8.340		
16,200.0	10,700.0	16,224.8	10,716.0	54.4	50.3	90.66	-5,701.0	-2,194.4	863.5	759.3	104.27	8.282		
16,245.0	10,700.0	16,269.8	10,716.0	54.6	50.7	90.66	-5,746.0	-2,194.2	863.5	758.6	104.93	8.230		
16,300.0	10,700.0	16,324.8	10,716.0	55.0	51.1	90.66	-5,801.0	-2,193.8	863.6	757.8	105.74	8.167		
16,340.0	10,700.0	16,364.8	10,716.0	55.2	51.5	90.66	-5,841.0	-2,193.6	863.6	757.2	106.32	8.122		
16,400.0	10,700.0	16,424.8	10,716.0	55.6	52.0	90.66	-5,901.0	-2,193.2	863.6	756.4	107.21	8.055		
16,435.0	10,700.0	16,459.8	10,716.0	55.8	52.3	90.66	-5,936.0	-2,193.0	863.6	755.9	107.72	8.017		
16,500.0	10,700.0	16,524.8	10,716.0	56.2	52.8	90.66	-6,001.0	-2,192.6	863.6	754.9	108.68	7.946		
16,530.0	10,700.0	16,554.8	10,716.0	56.4	53.1	90.66	-6,031.0	-2,192.4	863.6	754.5	109.12	7.914		
16,600.0	10,700.0	16,624.8	10,716.0	56.8	53.7	90.66	-6,101.0	-2,191.9	863.6	753.5	110.16	7.840		
16,625.0	10,700.0	16,649.8	10,716.0	57.0	53.9	90.66	-6,126.0	-2,191.8	863.6	753.1	110.53	7.814		
16,700.0	10,700.0	16,724.8	10,716.0	57.5	54.5	90.66	-6,201.0	-2,191.3	863.6	752.0	111.64	7.736		
16,720.0	10,700.0	16,744.8	10,716.0	57.6	54.7	90.66	-6,221.0	-2,191.2	863.6	751.7	111.93	7.716		
16,800.0	10,700.0	16,824.8	10,716.0	58.1	55.4	90.66	-6,301.0	-2,190.7	863.7	750.5	113.12	7.635		
16,815.0	10,700.0	16,839.8	10,716.0	58.2	55.5	90.66	-6,316.0	-2,190.6	863.7	750.3	113.35	7.620		
16,900.0	10,700.0	16,924.8	10,716.0	58.7	56.2	90.66	-6,401.0	-2,190.0	863.7	749.1	114.61	7.536		
16,910.0	10,700.0	16,934.8	10,716.0	58.8	56.3	90.66	-6,411.0	-2,190.0	863.7	748.9	114.76	7.526		
17,000.0	10,700.0	17,024.8	10,716.0	59.4	57.1	90.66	-6,501.0	-2,189.4	863.7	747.6	116.10	7.439		
17,005.0	10,700.0	17,029.8	10,716.0	59.4	57.1	90.66	-6,506.0	-2,189.4	863.7	747.5	116.18	7.434		
17,100.0	10,700.0	17,124.8	10,716.0	60.0	57.9	90.66	-6,601.0	-2,188.8	863.7	746.1	117.60	7.345		
17,195.0	10,700.0	17,219.8	10,716.0	60.6	58.7	90.66	-6,696.0	-2,188.2	863.7	744.7	119.02	7.257		
17,200.0	10,700.0	17,224.8	10,716.0	60.7	58.8	90.66	-6,701.0	-2,188.1	863.7	744.6	119.09	7.253		
17,290.0	10,700.0	17,314.8	10,716.0	61.2	59.5	90.66	-6,791.0	-2,187.6	863.8	743.3	120.44	7.171		
17,300.0	10,700.0	17,324.8	10,716.0	61.3	59.6	90.66	-6,801.0	-2,187.5	863.8	743.2	120.59	7.162		
17,385.0	10,700.0	17,409.8	10,716.0	61.9	60.3	90.66	-6,886.0	-2,187.0	863.8	741.9	121.87	7.087		
17,400.0	10,700.0	17,424.8	10,716.0	62.0	60.5	90.66	-6,901.0	-2,186.9	863.8	741.7	122.10	7.074		
17,480.0	10,700.0	17,504.8	10,716.0	62.5	61.2	90.66	-6,981.0	-2,186.4	863.8	740.5	123.30	7.005		
17,500.0	10,700.0	17,524.8	10,716.0	62.6	61.3	90.66	-7,001.0	-2,186.3	863.8	740.2	123.60	6.988		
17,575.0	10,700.0	17,599.8	10,716.0	63.1	62.0	90.66	-7,076.0	-2,185.8	863.8	739.1	124.74	6.925		
17,600.0	10,700.0	17,624.8	10,716.0	63.3	62.2	90.66	-7,101.0	-2,185.6	863.8	738.7	125.11	6.904		
17,670.0	10,700.0	17,694.8	10,716.0	63.7	62.8	90.66	-7,171.0	-2,185.2	863.8	737.7	126.17	6.846		
17,700.0	10,700.0	17,724.8	10,716.0	63.9	63.0	90.66	-7,201.0	-2,185.0	863.8	737.2	126.63	6.822		
17,765.0	10,700.0	17,789.8	10,716.0	64.3	63.6	90.66	-7,266.0	-2,184.6	863.8	736.2	127.61	6.769		
17,800.0	10,700.0	17,824.8	10,716.0	64.6	63.9	90.66	-7,301.0	-2,184.4	863.8	735.7	128.14	6.741		
17,860.0	10,700.0	17,884.8	10,716.0	65.0	64.4	90.66	-7,361.0	-2,184.0	863.9	734.8	129.05	6.694		
17,900.0	10,700.0	17,924.8	10,716.0	65.2	64.7	90.66	-7,401.0	-2,183.7	863.9	734.2	129.66	6.663		
17,955.0	10,700.0	17,979.8	10,716.0	65.6	65.2	90.66	-7,456.0	-2,183.4	863.9	733.4	130.49	6.620		
18,000.0	10,700.0	18,024.8	10,716.0	65.9	65.6	90.66	-7,501.0	-2,183.1	863.9	732.7	131.18	6.586		
18,050.0	10,700.0	18,074.8	10,716.0	66.2	66.0	90.66	-7,551.0	-2,182.8	863.9	732.0	131.94	6.548		
18,100.0	10,700.0	18,124.8	10,716.0	66.6	66.4	90.66	-7,600.9	-2,182.5	863.9	731.2	132.70	6.510		
18,145.0	10,700.0	18,169.8	10,716.0	66.9	66.8	90.66	-7,645.9	-2,182.2	863.9	730.5	133.38	6.477		
18,200.0	10,700.0	18,224.8	10,716.0	67.2	67.3	90.66	-7,700.9	-2,181.8	863.9	729.7	134.22	6.437		
18,240.0	10,700.0	18,264.8	10,716.0	67.5	67.6	90.66	-7,740.9	-2,181.6	863.9	729.1	134.83	6.407		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #705H - OWB - PWP3													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 10243-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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,300.0	10,700.0	18,324.8	10,716.0	67.9	68.1	90.66	-7,800.9	-2,181.2	863.9	728.2	135.75	6.364		
18,335.0	10,700.0	18,359.8	10,716.0	68.1	68.4	90.66	-7,835.9	-2,181.0	864.0	727.7	136.28	6.339		
18,400.0	10,700.0	18,424.8	10,716.0	68.6	69.0	90.66	-7,900.9	-2,180.6	864.0	726.7	137.28	6.294		
18,430.0	10,700.0	18,454.8	10,716.0	68.8	69.2	90.66	-7,930.9	-2,180.4	864.0	726.2	137.74	6.273		
18,500.0	10,700.0	18,524.8	10,716.0	69.3	69.8	90.66	-8,000.9	-2,180.0	864.0	725.2	138.81	6.224		
18,525.0	10,700.0	18,549.8	10,716.0	69.4	70.1	90.66	-8,025.9	-2,179.8	864.0	724.8	139.19	6.207		
18,600.0	10,700.0	18,624.8	10,716.0	69.9	70.7	90.66	-8,100.9	-2,179.3	864.0	723.7	140.34	6.157		
18,620.0	10,700.0	18,644.8	10,716.0	70.1	70.9	90.66	-8,120.9	-2,179.2	864.0	723.4	140.65	6.143		
18,700.0	10,700.0	18,724.8	10,716.0	70.6	71.5	90.66	-8,200.9	-2,178.7	864.0	722.2	141.87	6.090		
18,715.0	10,700.0	18,739.8	10,716.0	70.7	71.7	90.66	-8,215.9	-2,178.6	864.0	721.9	142.10	6.080		
18,800.0	10,700.0	18,824.8	10,716.0	71.3	72.4	90.66	-8,300.9	-2,178.1	864.0	720.6	143.41	6.025		
18,810.0	10,700.0	18,834.8	10,716.0	71.4	72.5	90.66	-8,310.9	-2,178.0	864.0	720.5	143.56	6.019		
18,900.0	10,700.0	18,924.8	10,716.0	72.0	73.3	90.66	-8,400.9	-2,177.4	864.1	719.1	144.95	5.961		
18,905.0	10,700.0	18,929.8	10,716.0	72.0	73.3	90.66	-8,405.9	-2,177.4	864.1	719.0	145.02	5.958		
19,000.0	10,700.0	19,024.8	10,716.0	72.6	74.1	90.66	-8,500.9	-2,176.8	864.1	717.6	146.49	5.899		
19,095.0	10,700.0	19,119.8	10,716.0	73.3	74.9	90.66	-8,595.9	-2,176.2	864.1	716.2	147.95	5.840		
19,100.0	10,700.0	19,124.8	10,716.0	73.3	75.0	90.66	-8,600.9	-2,176.2	864.1	716.1	148.03	5.837		
19,190.0	10,700.0	19,214.8	10,716.0	74.0	75.7	90.66	-8,690.9	-2,175.6	864.1	714.7	149.42	5.783		
19,200.0	10,700.0	19,224.8	10,716.0	74.0	75.8	90.66	-8,700.9	-2,175.5	864.1	714.6	149.57	5.777		
19,285.0	10,700.0	19,309.8	10,716.0	74.6	76.5	90.66	-8,785.9	-2,175.0	864.1	713.3	150.88	5.727		
19,300.0	10,700.0	19,324.8	10,716.0	74.7	76.7	90.66	-8,800.9	-2,174.9	864.1	713.0	151.12	5.718		
19,380.0	10,700.0	19,404.8	10,716.0	75.3	77.4	90.66	-8,880.9	-2,174.4	864.2	711.8	152.35	5.672		
19,400.0	10,700.0	19,424.8	10,716.0	75.4	77.5	90.66	-8,900.9	-2,174.3	864.2	711.5	152.66	5.661		
19,475.0	10,700.0	19,499.8	10,716.0	75.9	78.2	90.66	-8,975.9	-2,173.8	864.2	710.4	153.82	5.618		
19,500.0	10,700.0	19,524.8	10,716.0	76.1	78.4	90.66	-9,000.9	-2,173.7	864.2	710.0	154.21	5.604		
19,570.0	10,700.0	19,594.8	10,716.0	76.6	79.0	90.66	-9,070.9	-2,173.2	864.2	708.9	155.30	5.565		
19,600.0	10,700.0	19,624.8	10,716.0	76.8	79.2	90.66	-9,100.9	-2,173.0	864.2	708.4	155.76	5.548		
19,665.0	10,700.0	19,689.8	10,716.0	77.2	79.8	90.66	-9,165.9	-2,172.6	864.2	707.4	156.77	5.513		
19,700.0	10,700.0	19,724.8	10,716.0	77.5	80.1	90.66	-9,200.9	-2,172.4	864.2	706.9	157.31	5.494		
19,760.0	10,700.0	19,784.8	10,716.0	77.9	80.6	90.66	-9,260.9	-2,172.0	864.2	706.0	158.24	5.461		
19,800.0	10,700.0	19,824.8	10,716.0	78.2	80.9	90.66	-9,300.9	-2,171.8	864.2	705.4	158.86	5.440		
19,855.0	10,700.0	19,879.8	10,716.0	78.6	81.4	90.66	-9,355.9	-2,171.4	864.3	704.5	159.72	5.411		
19,900.0	10,700.0	19,924.8	10,716.0	78.9	81.8	90.66	-9,400.9	-2,171.1	864.3	703.8	160.42	5.388		
19,950.0	10,700.0	19,974.8	10,716.0	79.2	82.2	90.66	-9,450.9	-2,170.8	864.3	703.1	161.19	5.362		
20,000.0	10,700.0	20,024.8	10,716.0	79.6	82.7	90.66	-9,500.9	-2,170.5	864.3	702.3	161.97	5.336		
20,045.0	10,700.0	20,069.8	10,716.0	79.9	83.0	90.66	-9,545.9	-2,170.2	864.3	701.6	162.67	5.313		
20,100.0	10,700.0	20,124.8	10,716.0	80.3	83.5	90.66	-9,600.9	-2,169.9	864.3	700.8	163.53	5.285		
20,140.0	10,700.0	20,164.8	10,716.0	80.5	83.8	90.66	-9,640.9	-2,169.6	864.3	700.2	164.15	5.265		
20,200.0	10,700.0	20,224.8	10,716.0	81.0	84.4	90.66	-9,700.9	-2,169.2	864.3	699.2	165.09	5.236		
20,235.0	10,700.0	20,259.8	10,716.0	81.2	84.7	90.66	-9,735.9	-2,169.0	864.3	698.7	165.63	5.218		
20,300.0	10,700.0	20,324.8	10,716.0	81.7	85.2	90.66	-9,800.9	-2,168.6	864.3	697.7	166.64	5.187		
20,330.0	10,700.0	20,354.8	10,716.0	81.9	85.5	90.66	-9,830.9	-2,168.4	864.3	697.2	167.11	5.172		
20,400.0	10,700.0	20,424.8	10,716.0	82.4	86.1	90.66	-9,900.9	-2,168.0	864.4	696.2	168.20	5.139		
20,425.0	10,700.0	20,449.8	10,716.0	82.5	86.3	90.66	-9,925.9	-2,167.8	864.4	695.8	168.59	5.127		
20,500.0	10,700.0	20,524.8	10,716.0	83.1	86.9	90.66	-10,000.9	-2,167.4	864.4	694.6	169.77	5.092		
20,520.0	10,700.0	20,544.8	10,716.0	83.2	87.1	90.66	-10,020.9	-2,167.2	864.4	694.3	170.08	5.082		
20,601.5	10,700.0	20,626.3	10,716.0	83.8	87.8	90.66	-10,102.4	-2,166.7	864.4	693.0	171.35	5.045		
20,615.0	10,700.0	20,639.8	10,716.0	83.9	87.9	90.66	-10,115.9	-2,166.6	864.4	692.8	171.56	5.038		
20,700.0	10,700.0	20,724.8	10,716.0	84.5	88.6	90.66	-10,200.9	-2,166.1	864.4	691.5	172.89	5.000		
20,710.0	10,700.0	20,734.8	10,716.0	84.5	88.7	90.66	-10,210.9	-2,166.0	864.4	691.4	173.05	4.995		
20,731.5	10,700.0	20,756.1	10,716.0	84.7	88.9	90.66	-10,232.2	-2,165.9	864.4	691.0	173.38	4.986 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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.42	-0.2	-30.1	30.2				
95.0	95.0	92.1	92.1	3.0	3.0	-91.69	-0.9	-29.9	29.9	23.9	6.00	4.986	
100.0	100.0	97.1	97.1	3.0	3.0	-91.83	-1.0	-29.9	29.9	23.9	6.00	4.983	
183.7	183.7	180.7	180.7	3.0	3.0	-94.69	-2.4	-29.6	29.7	23.7	6.00	4.943	
190.0	190.0	187.0	187.0	3.0	3.0	-94.86	-2.5	-29.6	29.7	23.7	6.00	4.943	
200.0	200.0	196.9	196.9	3.0	3.0	-95.08	-2.6	-29.6	29.7	23.7	6.00	4.947	
285.0	285.0	282.0	281.9	3.0	3.0	-95.46	-2.8	-29.7	29.9	23.8	6.01	4.968	
300.0	300.0	296.9	296.9	3.0	3.0	-95.43	-2.8	-29.8	29.9	23.9	6.01	4.975	
380.0	380.0	377.1	377.1	3.0	3.0	-95.30	-2.8	-29.9	30.0	24.0	6.02	4.988	
400.0	400.0	397.1	397.1	3.0	3.0	-95.28	-2.8	-29.8	29.9	23.9	6.02	4.975	
475.0	475.0	472.3	472.3	3.0	3.0	-95.46	-2.8	-29.3	29.5	23.4	6.03	4.890	
500.0	500.0	497.3	497.3	3.1	3.0	-95.59	-2.8	-29.1	29.2	23.2	6.03	4.848	
570.0	570.0	567.2	567.2	3.1	3.0	-96.59	-3.3	-28.5	28.7	22.6	6.04	4.745	
600.0	600.0	597.1	597.1	3.1	3.0	-97.04	-3.5	-28.3	28.5	22.5	6.05	4.713	
665.0	665.0	662.1	662.0	3.1	3.0	-98.42	-4.1	-28.0	28.3	22.3	6.07	4.670	
700.0	700.0	697.1	697.1	3.1	3.1	-99.04	-4.4	-27.9	28.3	22.2	6.10	4.632	
760.0	760.0	757.1	757.1	3.1	3.1	-99.45	-4.6	-27.7	28.1	21.9	6.18	4.544	
800.0	800.0	797.1	797.1	3.2	3.2	-99.24	-4.5	-27.6	28.0	21.7	6.26	4.466	
855.0	855.0	852.2	852.2	3.2	3.3	-98.38	-4.0	-27.4	27.7	21.3	6.35	4.362	
900.0	900.0	897.2	897.2	3.2	3.4	-97.41	-3.5	-27.2	27.4	21.0	6.40	4.281	
950.0	950.0	947.2	947.1	3.2	3.4	-96.32	-3.0	-27.0	27.1	20.7	6.45	4.202	
1,000.0	1,000.0	997.1	997.1	3.2	3.5	-95.18	-2.4	-26.8	26.9	20.4	6.53	4.127	
1,045.0	1,045.0	1,042.1	1,042.1	3.3	3.6	-93.94	-1.8	-26.7	26.8	20.2	6.60	4.060	
1,100.0	1,100.0	1,097.1	1,097.1	3.3	3.7	-92.21	-1.0	-26.6	26.7	20.0	6.69	3.981	
1,140.0	1,140.0	1,137.1	1,137.1	3.3	3.8	-90.91	-0.4	-26.6	26.6	19.8	6.77	3.925	
1,200.0	1,200.0	1,197.1	1,197.0	3.4	3.9	-88.86	0.5	-26.5	26.5	19.6	6.88	3.849	
1,221.4	1,221.4	1,218.5	1,218.4	3.4	3.9	-88.11	0.9	-26.5	26.5	19.5	6.92	3.825	
1,235.0	1,235.0	1,232.1	1,232.0	3.4	4.0	-87.62	1.1	-26.4	26.5	19.5	6.94	3.811	
1,300.0	1,300.0	1,297.0	1,297.0	3.4	4.1	-85.03	2.3	-26.4	26.5	19.5	7.07	3.750	
1,330.0	1,330.0	1,327.0	1,326.9	3.4	4.2	-83.66	2.9	-26.4	26.6	19.4	7.13	3.727	
1,400.0	1,400.0	1,396.8	1,396.7	3.5	4.3	-80.31	4.6	-26.7	27.1	19.8	7.27	3.723	
1,425.0	1,425.0	1,421.7	1,421.6	3.5	4.4	-79.12	5.2	-26.9	27.4	20.1	7.32	3.744	
1,500.0	1,500.0	1,496.6	1,496.5	3.5	4.6	-76.42	6.7	-27.9	28.7	21.2	7.49	3.829	
1,520.0	1,520.0	1,516.6	1,516.4	3.6	4.6	-75.94	7.1	-28.2	29.0	21.5	7.53	3.854	
1,600.0	1,600.0	1,596.5	1,596.3	3.6	4.8	-74.31	8.3	-29.6	30.7	23.0	7.74	3.968	
1,615.0	1,615.0	1,611.6	1,611.4	3.6	4.9	-74.06	8.5	-29.8	31.0	23.2	7.78	3.987	
1,700.0	1,700.0	1,697.2	1,697.0	3.7	5.1	-73.00	9.3	-30.3	31.7	23.7	8.02	3.950	
1,710.0	1,710.0	1,707.2	1,707.1	3.7	5.2	-72.91	9.3	-30.3	31.7	23.6	8.06	3.932	
1,800.0	1,800.0	1,797.4	1,797.2	3.8	5.4	-72.36	9.5	-29.8	31.3	22.9	8.35	3.746	
1,805.0	1,805.0	1,802.4	1,802.2	3.8	5.4	-72.33	9.5	-29.8	31.3	22.9	8.37	3.735	
1,900.0	1,900.0	1,897.5	1,897.3	3.9	5.6	-71.87	9.5	-29.0	30.5	21.8	8.69	3.511	
1,995.0	1,995.0	1,992.5	1,992.3	3.9	5.9	-71.66	9.3	-28.1	29.6	20.6	9.00	3.290	
2,000.0	2,000.0	1,997.4	1,997.3	3.9	5.9	-71.66	9.3	-28.1	29.6	20.6	9.02	3.279	
2,090.0	2,090.0	2,087.4	2,087.2	4.1	6.1	-59.27	9.0	-27.4	28.1	18.8	9.31	3.017	
2,100.0	2,100.0	2,097.4	2,097.2	4.2	6.2	-59.90	9.0	-27.3	27.8	18.5	9.34	2.980	
2,185.0	2,184.9	2,182.3	2,182.1	4.7	6.4	-68.66	8.6	-26.6	25.2	15.6	9.61	2.619	
2,200.0	2,199.8	2,197.3	2,197.1	4.8	6.5	-70.94	8.5	-26.4	24.7	15.0	9.66	2.557	
2,250.0	2,249.7	2,247.0	2,246.8	4.9	6.6	-80.41	8.4	-26.0	23.3	13.4	9.88	2.360	
2,280.0	2,279.6	2,276.9	2,276.7	5.0	6.7	-87.10	8.3	-25.8	22.8	12.8	10.08	2.266	
2,300.0	2,299.5	2,296.8	2,296.6	5.0	6.7	-91.63	8.2	-25.7	22.7	12.5	10.24	2.219	
2,305.0	2,304.5	2,301.8	2,301.6	5.0	6.8	-92.77	8.2	-25.7	22.7	12.4	10.29	2.208 CC, ES	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,375.0	2,374.2	2,371.4	2,371.2	5.1	7.0	-108.30	8.1	-25.4	23.6	12.7	10.99	2.151 SF	
2,400.0	2,399.1	2,396.3	2,396.1	5.1	7.0	-113.52	7.9	-25.3	24.4	13.1	11.25	2.169	
2,470.0	2,468.8	2,466.0	2,465.8	5.2	7.3	-126.27	7.5	-25.0	27.6	15.6	11.96	2.306	
2,500.0	2,498.7	2,495.8	2,495.6	5.3	7.4	-130.76	7.3	-24.9	29.3	17.1	12.22	2.396	
2,535.0	2,533.6	2,530.7	2,530.5	5.3	7.5	-135.34	7.1	-24.8	31.5	19.0	12.48	2.523	
2,565.0	2,563.5	2,560.6	2,560.4	5.3	7.6	-132.12	7.0	-24.7	33.4	20.7	12.70	2.628	
2,600.0	2,598.4	2,595.4	2,595.2	5.4	7.7	-127.91	6.8	-24.5	35.4	22.5	12.93	2.736	
2,660.0	2,658.1	2,655.2	2,655.0	5.6	7.9	-120.82	6.4	-24.3	38.5	25.0	13.47	2.858	
2,700.0	2,698.0	2,694.9	2,694.7	5.8	8.0	-116.98	6.1	-24.0	40.4	26.6	13.80	2.928	
2,755.0	2,752.8	2,749.4	2,749.2	6.1	8.2	-113.65	5.6	-23.5	43.1	28.9	14.27	3.022	
2,800.0	2,797.5	2,794.0	2,793.8	6.4	8.3	-112.68	4.9	-23.0	45.6	31.0	14.60	3.124	
2,850.0	2,847.2	2,843.4	2,843.2	6.6	8.5	-113.16	4.1	-22.3	48.8	33.9	14.89	3.275	
2,900.0	2,896.8	2,892.7	2,892.4	6.9	8.7	-114.89	3.1	-21.4	52.5	37.4	15.14	3.467	
2,945.0	2,941.4	2,936.9	2,936.6	7.0	8.8	-117.19	2.1	-20.5	56.5	41.1	15.38	3.675	
3,000.0	2,995.7	2,990.6	2,990.3	7.2	9.0	-120.58	0.7	-19.2	62.5	46.9	15.59	4.009	
3,040.0	3,035.2	3,029.4	3,029.0	7.4	9.1	-123.24	-0.5	-18.0	67.8	52.0	15.73	4.308	
3,100.0	3,094.2	3,087.6	3,087.1	7.6	9.3	-127.27	-2.4	-15.9	77.1	61.1	16.03	4.811	
3,135.0	3,128.5	3,121.4	3,120.9	7.6	9.4	-129.54	-3.6	-14.5	83.3	67.2	16.12	5.168	
3,156.0	3,149.1	3,141.9	3,141.4	7.7	9.5	-130.88	-4.3	-13.6	87.3	71.1	16.19	5.392	
3,200.0	3,192.1	3,185.4	3,184.9	7.8	9.7	-135.11	-5.6	-11.9	95.7	79.4	16.32	5.865	
3,230.0	3,221.4	3,215.3	3,214.7	7.8	9.8	-137.60	-6.3	-10.9	101.5	85.1	16.43	6.176	
3,300.0	3,289.9	3,285.9	3,285.3	8.0	10.0	-142.33	-7.9	-9.7	114.6	97.8	16.71	6.855	
3,325.0	3,314.4	3,311.3	3,310.7	8.0	10.1	-143.69	-8.4	-9.7	119.0	102.2	16.83	7.070	
3,400.0	3,387.7	3,388.0	3,387.3	8.2	10.3	-147.09	-9.7	-11.0	131.4	114.1	17.31	7.591	
3,420.0	3,407.3	3,408.4	3,407.7	8.3	10.4	-147.86	-10.0	-11.6	134.4	117.0	17.43	7.710	
3,500.0	3,485.5	3,487.1	3,486.4	8.5	10.7	-150.54	-10.9	-14.3	146.7	128.8	17.91	8.194	
3,515.0	3,500.2	3,501.9	3,501.2	8.5	10.7	-150.99	-11.1	-14.7	149.1	131.1	18.00	8.283	
3,600.0	3,583.3	3,585.4	3,584.6	8.7	11.0	-153.32	-12.2	-17.4	162.5	144.1	18.48	8.796	
3,610.0	3,593.1	3,595.3	3,594.5	8.8	11.0	-153.57	-12.3	-17.8	164.2	145.6	18.54	8.855	
3,700.0	3,681.2	3,684.3	3,683.5	9.0	11.3	-155.62	-13.4	-20.7	178.6	159.5	19.08	9.363	
3,705.0	3,686.0	3,689.2	3,688.4	9.0	11.3	-155.72	-13.4	-20.9	179.4	160.3	19.11	9.390	
3,800.0	3,779.0	3,782.3	3,781.4	9.3	11.6	-157.49	-14.7	-24.0	194.9	175.2	19.69	9.900	
3,895.0	3,871.9	3,875.7	3,874.8	9.6	11.9	-159.02	-15.9	-27.0	210.7	190.4	20.28	10.387	
3,900.0	3,876.8	3,880.6	3,879.7	9.6	11.9	-159.09	-16.0	-27.1	211.5	191.2	20.32	10.412	
3,990.0	3,964.8	3,969.0	3,968.0	9.8	12.2	-160.34	-17.1	-29.8	226.7	205.8	20.89	10.851	
4,000.0	3,974.6	3,978.9	3,977.9	9.9	12.3	-160.48	-17.2	-30.1	228.4	207.4	20.96	10.899	
4,085.0	4,057.7	4,062.8	4,061.8	10.1	12.5	-161.52	-18.2	-32.8	242.7	221.2	21.51	11.286	
4,100.0	4,072.4	4,077.5	4,076.5	10.2	12.6	-161.69	-18.4	-33.2	245.3	223.7	21.60	11.353	
4,180.0	4,150.7	4,155.9	4,154.8	10.4	12.9	-162.57	-19.1	-35.6	258.9	236.8	22.13	11.701	
4,200.0	4,170.2	4,175.4	4,174.3	10.5	12.9	-162.78	-19.3	-36.2	262.4	240.1	22.26	11.787	
4,275.0	4,243.6	4,248.9	4,247.8	10.7	13.2	-163.54	-20.0	-38.2	275.4	252.6	22.75	12.103	
4,300.0	4,268.0	4,273.5	4,272.4	10.8	13.3	-163.79	-20.1	-38.9	279.7	256.8	22.92	12.205	
4,370.0	4,336.5	4,341.4	4,340.2	11.0	13.5	-164.50	-20.3	-40.7	292.0	268.6	23.37	12.493	
4,400.0	4,365.9	4,369.9	4,368.7	11.1	13.6	-164.84	-20.0	-41.2	297.4	273.8	23.56	12.622	
4,465.0	4,429.4	4,432.6	4,431.4	11.3	13.8	-165.68	-18.9	-42.2	309.4	285.4	23.98	12.904	
4,500.0	4,463.7	4,467.1	4,465.9	11.4	13.9	-166.14	-18.1	-42.7	315.9	291.7	24.21	13.050	
4,560.0	4,522.4	4,525.9	4,524.7	11.6	14.1	-166.88	-16.8	-43.5	327.0	302.4	24.60	13.296	
4,600.0	4,561.5	4,564.9	4,563.6	11.8	14.2	-167.34	-15.9	-44.1	334.5	309.7	24.86	13.459	
4,655.0	4,615.3	4,618.7	4,617.4	11.9	14.4	-167.93	-14.9	-44.8	344.9	319.7	25.22	13.678	
4,700.0	4,659.3	4,662.8	4,661.5	12.1	14.6	-168.39	-14.0	-45.4	353.4	327.9	25.51	13.853	
4,750.0	4,708.2	4,712.3	4,711.0	12.3	14.8	-168.87	-13.0	-46.1	362.9	337.0	25.84	14.040	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
4,800.0	4,757.1	4,761.9	4,760.6	12.4	14.9	-169.33	-12.0	-46.9	372.3	346.1	26.18	14.220		
4,845.0	4,801.1	4,805.9	4,804.6	12.6	15.1	-169.72	-11.1	-47.6	380.7	354.2	26.48	14.378		
4,900.0	4,854.9	4,859.3	4,858.0	12.8	15.3	-170.18	-10.0	-48.5	391.1	364.3	26.84	14.570		
4,940.0	4,894.1	4,896.3	4,895.0	12.9	15.4	-170.47	-9.3	-48.9	398.8	371.7	27.10	14.717		
5,000.0	4,952.8	4,951.9	4,950.6	13.1	15.6	-170.84	-8.6	-49.2	410.8	383.3	27.48	14.947		
5,035.0	4,987.0	4,985.1	4,983.8	13.2	15.7	-171.03	-8.4	-49.2	417.9	390.2	27.72	15.080		
5,100.0	5,050.6	5,047.2	5,045.9	13.5	15.9	-171.34	-8.1	-49.1	431.5	403.3	28.15	15.327		
5,130.0	5,079.9	5,076.9	5,075.5	13.6	16.0	-171.47	-8.0	-49.0	437.8	409.4	28.36	15.434		
5,200.0	5,148.4	5,146.1	5,144.7	13.8	16.2	-171.78	-7.8	-48.8	452.3	423.5	28.85	15.676		
5,225.0	5,172.8	5,170.8	5,169.4	13.9	16.3	-171.88	-7.7	-48.8	457.5	428.5	29.03	15.760		
5,300.0	5,246.2	5,244.8	5,243.4	14.2	16.6	-172.16	-7.6	-48.8	473.0	443.4	29.55	16.005		
5,320.0	5,265.8	5,264.4	5,263.1	14.2	16.6	-172.23	-7.6	-48.8	477.1	447.4	29.69	16.069		
5,400.0	5,344.0	5,343.3	5,342.0	14.5	16.9	-172.51	-7.5	-48.9	493.5	463.2	30.24	16.318		
5,415.0	5,358.7	5,358.2	5,356.8	14.6	16.9	-172.56	-7.5	-48.9	496.5	466.2	30.34	16.363		
5,500.0	5,441.8	5,442.3	5,440.9	14.9	17.2	-172.84	-7.3	-49.2	513.8	482.9	30.93	16.609		
5,510.0	5,451.6	5,452.2	5,450.8	14.9	17.3	-172.87	-7.2	-49.2	515.8	484.8	31.00	16.637		
5,600.0	5,539.6	5,540.9	5,539.5	15.2	17.6	-173.16	-7.0	-49.7	533.9	502.3	31.63	16.882		
5,605.0	5,544.5	5,545.8	5,544.5	15.2	17.6	-173.17	-6.9	-49.7	535.0	503.3	31.66	16.895		
5,700.0	5,637.5	5,637.6	5,636.3	15.6	18.0	-173.43	-7.3	-51.7	553.0	520.5	32.49	17.020		
5,795.0	5,730.4	5,755.9	5,754.5	15.9	18.4	-173.56	-8.5	-56.1	568.4	535.1	33.27	17.086		
5,800.0	5,735.3	5,761.0	5,759.6	15.9	18.4	-173.57	-8.5	-56.3	569.2	535.9	33.31	17.090		
5,890.0	5,823.3	5,854.2	5,852.6	16.3	18.8	-173.80	-8.5	-61.2	583.2	549.3	33.96	17.175		
5,900.0	5,833.1	5,864.3	5,862.7	16.3	18.8	-173.83	-8.5	-61.7	584.8	550.7	34.03	17.183		
5,985.0	5,916.2	5,950.8	5,949.1	16.6	19.1	-174.03	-8.5	-66.7	597.5	562.8	34.64	17.248		
6,000.0	5,930.9	5,966.1	5,964.3	16.7	19.2	-174.06	-8.6	-67.7	599.7	564.9	34.75	17.258		
6,080.0	6,009.2	6,048.6	6,046.6	17.0	19.4	-174.16	-9.5	-72.8	611.3	576.0	35.33	17.301		
6,100.0	6,028.7	6,069.9	6,067.9	17.0	19.5	-174.18	-9.8	-74.2	614.1	578.6	35.48	17.308		
6,175.0	6,102.1	6,150.7	6,148.5	17.3	19.8	-174.25	-11.0	-80.2	624.2	588.1	36.04	17.318		
6,200.0	6,126.5	6,178.0	6,175.6	17.4	19.9	-174.28	-11.4	-82.3	627.3	591.1	36.23	17.316		
6,270.0	6,195.0	6,249.4	6,246.8	17.6	20.1	-174.34	-12.5	-88.5	635.8	599.1	36.74	17.309		
6,300.0	6,224.3	6,278.4	6,275.7	17.8	20.2	-174.36	-12.9	-90.9	639.5	602.6	36.95	17.309		
6,365.0	6,287.9	6,342.0	6,339.0	18.0	20.5	-174.40	-14.0	-96.2	647.6	610.2	37.41	17.310		
6,400.0	6,322.2	6,376.4	6,373.3	18.1	20.6	-174.43	-14.5	-99.1	651.9	614.3	37.66	17.311		
6,460.0	6,380.8	6,435.4	6,432.2	18.3	20.8	-174.49	-15.2	-103.9	659.5	621.4	38.09	17.313		
6,500.0	6,420.0	6,474.8	6,471.4	18.5	20.9	-174.53	-15.6	-107.2	664.5	626.1	38.38	17.316		
6,555.0	6,473.8	6,530.1	6,526.5	18.7	21.1	-174.60	-16.1	-111.7	671.4	632.6	38.77	17.317		
6,600.0	6,517.8	6,575.8	6,572.0	18.9	21.3	-174.66	-16.5	-115.5	677.0	637.9	39.10	17.315		
6,650.0	6,566.7	6,632.2	6,628.3	19.0	21.5	-174.75	-16.9	-120.5	682.9	643.5	39.48	17.298		
6,700.0	6,615.6	6,685.4	6,681.2	19.2	21.7	-174.84	-17.0	-125.8	688.4	648.6	39.85	17.276		
6,745.0	6,659.6	6,729.6	6,725.1	19.4	21.8	-174.92	-17.1	-130.2	693.3	653.2	40.17	17.259		
6,800.0	6,713.4	6,783.7	6,779.0	19.6	22.0	-175.02	-17.2	-135.5	699.4	658.8	40.56	17.241		
6,840.0	6,752.5	6,823.1	6,818.2	19.7	22.1	-175.08	-17.4	-139.3	703.8	663.0	40.85	17.228		
6,900.0	6,811.2	6,881.8	6,876.6	20.0	22.4	-175.18	-17.5	-145.0	710.5	669.2	41.28	17.211		
6,935.0	6,845.5	6,915.9	6,910.5	20.1	22.5	-175.24	-17.6	-148.3	714.4	672.9	41.53	17.203		
7,000.0	6,909.0	6,980.8	6,975.2	20.3	22.7	-175.34	-17.9	-154.5	721.8	679.8	42.00	17.186		
7,030.0	6,938.4	7,011.1	7,005.3	20.5	22.8	-175.38	-18.1	-157.4	725.1	682.9	42.22	17.177		
7,100.0	7,006.9	7,077.1	7,071.1	20.7	23.0	-175.46	-18.5	-163.6	733.1	690.4	42.71	17.165		
7,125.0	7,031.3	7,100.3	7,094.2	20.8	23.1	-175.49	-18.6	-165.7	736.1	693.2	42.88	17.164		
7,200.0	7,104.7	7,169.4	7,163.0	21.1	23.4	-175.58	-19.0	-171.6	745.2	701.8	43.41	17.169		
7,220.0	7,124.2	7,187.8	7,181.3	21.2	23.4	-175.60	-19.1	-173.1	747.8	704.2	43.54	17.173		
7,300.0	7,202.5	7,259.0	7,252.3	21.5	23.7	-175.69	-19.4	-178.5	758.4	714.3	44.09	17.203		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,315.0	7,217.2	7,272.2	7,265.5	21.5	23.7	-175.71	-19.5	-179.4	760.5	716.3	44.19	17.212	
7,400.0	7,300.3	7,382.5	7,375.4	21.8	24.1	-175.81	-20.4	-188.0	771.7	726.7	44.94	17.170	
7,410.0	7,310.1	7,397.3	7,390.2	21.9	24.2	-175.82	-20.6	-189.6	772.7	727.7	45.04	17.157	
7,500.0	7,398.1	7,503.5	7,495.5	22.2	24.7	-176.00	-20.7	-202.8	780.2	734.3	45.83	17.022	
7,505.0	7,403.0	7,507.6	7,499.6	22.2	24.7	-176.01	-20.7	-203.3	780.6	734.7	45.87	17.017	
7,600.0	7,495.9	7,589.2	7,580.6	22.6	25.0	-176.16	-20.4	-212.9	789.2	742.7	46.56	16.950	
7,695.0	7,588.9	7,688.1	7,678.8	22.9	25.4	-176.38	-19.6	-224.0	798.5	751.2	47.27	16.891	
7,700.0	7,593.8	7,694.0	7,684.8	23.0	25.4	-176.40	-19.5	-224.7	798.9	751.6	47.31	16.887	
7,790.0	7,681.8	7,792.6	7,782.5	23.3	25.8	-176.71	-17.4	-237.3	806.4	758.4	47.99	16.804	
7,800.0	7,691.6	7,802.6	7,792.4	23.3	25.8	-176.74	-17.2	-238.6	807.2	759.1	48.06	16.795	
7,885.0	7,774.7	7,883.1	7,872.3	23.7	26.1	-176.94	-16.2	-249.0	814.1	765.4	48.67	16.728	
7,900.0	7,789.4	7,896.8	7,885.8	23.7	26.2	-176.96	-16.2	-250.7	815.4	766.6	48.77	16.719	
7,980.0	7,867.6	7,969.4	7,957.9	24.0	26.4	-177.09	-16.0	-259.3	822.7	773.3	49.33	16.677	
8,000.0	7,887.2	7,987.5	7,975.9	24.1	26.5	-177.12	-15.9	-261.4	824.6	775.1	49.47	16.669	
8,075.0	7,960.6	8,053.9	8,041.9	24.4	26.7	-177.22	-15.7	-268.5	832.3	782.3	49.99	16.649	
8,100.0	7,985.0	8,075.5	8,063.4	24.5	26.8	-177.25	-15.8	-270.6	835.0	784.8	50.16	16.647	
8,170.0	8,053.5	8,141.4	8,129.0	24.7	27.0	-177.31	-16.1	-276.8	843.1	792.4	50.66	16.643	
8,200.0	8,082.8	8,172.4	8,159.9	24.9	27.1	-177.32	-16.5	-279.7	846.5	795.6	50.88	16.636	
8,265.0	8,146.4	8,248.4	8,235.5	25.1	27.4	-177.34	-17.7	-287.2	853.6	802.2	51.41	16.605	
8,300.0	8,180.6	8,292.7	8,279.5	25.2	27.6	-177.35	-18.5	-292.1	857.0	805.3	51.70	16.576	
8,360.0	8,239.3	8,350.5	8,337.0	25.5	27.8	-177.35	-19.7	-298.8	862.5	810.3	52.14	16.541	
8,400.0	8,278.5	8,394.5	8,380.6	25.6	28.0	-177.34	-20.8	-303.9	866.1	813.7	52.46	16.512	
8,455.0	8,332.3	8,479.7	8,465.0	25.8	28.3	-177.32	-22.9	-315.6	870.0	817.0	52.95	16.429	
8,500.0	8,376.3	8,514.1	8,499.0	26.0	28.4	-177.32	-23.8	-320.6	872.7	819.5	53.29	16.379	
8,550.0	8,425.2	8,562.0	8,546.4	26.2	28.6	-177.33	-24.8	-327.2	876.2	822.5	53.67	16.325	
8,600.0	8,474.1	8,604.3	8,588.4	26.4	28.7	-177.33	-25.7	-332.8	879.9	825.9	54.03	16.287	
8,645.0	8,518.1	8,648.1	8,631.7	26.5	28.9	-177.35	-26.3	-338.5	883.3	829.0	54.36	16.251	
8,700.0	8,571.9	8,709.1	8,692.2	26.7	29.1	-177.41	-26.8	-346.8	887.4	832.6	54.77	16.201	
8,740.0	8,611.0	8,751.1	8,733.7	26.9	29.3	-177.48	-26.7	-352.8	890.1	835.0	55.07	16.163	
8,800.0	8,669.7	8,800.3	8,782.5	27.1	29.5	-177.58	-26.2	-359.5	894.5	839.0	55.48	16.122	
8,835.0	8,704.0	8,833.0	8,814.9	27.3	29.6	-177.65	-25.8	-363.7	897.4	841.7	55.73	16.102	
8,900.0	8,767.5	8,889.1	8,870.6	27.5	29.8	-177.78	-25.0	-370.5	903.2	847.0	56.18	16.076	
8,930.0	8,796.9	8,917.1	8,898.4	27.6	29.9	-177.84	-24.5	-373.8	906.0	849.6	56.39	16.065	
9,000.0	8,865.3	8,971.1	8,952.1	27.9	30.1	-177.96	-23.7	-379.7	913.1	856.2	56.85	16.060	
9,025.0	8,889.8	8,989.9	8,970.8	28.0	30.2	-178.00	-23.5	-381.5	915.9	858.9	57.01	16.065	
9,106.4	8,969.4	9,072.2	9,052.8	28.3	30.5	-178.14	-22.6	-388.9	925.7	868.1	57.63	16.065	
9,120.0	8,982.7	9,088.4	9,068.8	28.3	30.5	-178.17	-22.4	-390.5	927.3	869.5	57.74	16.059	
9,200.0	9,061.3	9,170.0	9,150.0	28.7	30.8	-178.30	-21.7	-398.6	934.6	876.3	58.35	16.017	
9,215.0	9,076.1	9,184.8	9,164.8	28.7	30.9	-178.32	-21.6	-400.1	935.8	877.3	58.47	16.003	
9,300.0	9,160.0	9,265.1	9,244.7	29.1	31.2	-178.43	-21.1	-407.9	940.9	881.8	59.14	15.911	
9,310.0	9,169.9	9,274.4	9,254.0	29.1	31.2	-178.44	-21.1	-408.8	941.4	882.2	59.21	15.899	
9,400.0	9,259.2	9,355.0	9,334.2	29.5	31.5	-178.53	-20.8	-415.9	944.5	884.6	59.89	15.771	
9,405.0	9,264.2	9,359.4	9,338.7	29.5	31.5	-178.53	-20.8	-416.3	944.6	884.7	59.92	15.764	
9,500.0	9,358.8	9,492.1	9,470.6	29.9	32.0	-178.73	-19.3	-430.1	943.4	882.5	60.85	15.503	
9,595.0	9,453.7	9,585.3	9,563.0	30.2	32.4	-179.02	-16.2	-442.0	936.9	875.3	61.59	15.211	
9,600.0	9,458.7	9,589.5	9,567.1	30.2	32.4	-179.03	-16.1	-442.6	936.5	874.9	61.63	15.196	
9,690.0	9,548.6	9,664.3	9,641.4	30.6	32.7	-179.26	-13.5	-451.3	928.4	866.2	62.18	14.932	
9,706.4	9,565.0	9,678.1	9,655.1	30.6	32.7	-179.26	-13.0	-452.7	926.8	864.5	62.28	14.882	
9,785.0	9,643.6	9,744.4	9,721.0	30.9	33.0	-179.39	-10.8	-459.3	919.4	856.7	62.74	14.654	
9,800.0	9,658.6	9,757.4	9,733.9	30.9	33.0	-179.40	-10.3	-460.5	918.1	855.3	62.83	14.613	
9,880.0	9,738.6	9,829.0	9,805.3	31.1	33.3	-179.51	-8.1	-466.5	911.8	848.4	63.31	14.401	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
9,900.0	9,758.6	9,847.1	9,823.3	31.2	33.3	82.11	-7.5	-467.9	910.3	846.8	63.43	14.350	
9,975.0	9,833.6	9,924.5	9,900.4	31.4	33.6	81.92	-5.3	-474.2	904.6	840.6	63.93	14.149	
10,000.0	9,858.6	9,948.3	9,924.2	31.5	33.7	81.86	-4.6	-476.1	902.7	838.6	64.09	14.084	
10,070.0	9,928.6	10,011.0	9,986.6	31.7	33.9	81.71	-3.0	-481.0	897.5	833.0	64.51	13.912	
10,100.0	9,958.6	10,042.2	10,017.7	31.8	34.0	81.64	-2.3	-483.4	895.3	830.6	64.71	13.836	
10,165.0	10,023.6	10,101.3	10,076.6	32.0	34.2	81.52	-1.0	-487.5	891.0	825.9	65.11	13.686	
10,200.0	10,058.6	10,136.2	10,111.5	32.1	34.4	81.46	-0.3	-489.8	888.8	823.5	65.34	13.604	
10,260.0	10,118.6	10,169.0	10,144.2	32.3	34.5	81.39	0.4	-492.0	885.5	819.9	65.56	13.507	
10,288.6	10,147.2	10,169.0	10,144.2	32.4	34.5	81.39	0.4	-492.0	885.0	819.5	65.52	13.507	
10,300.0	10,158.6	10,169.0	10,144.2	32.4	34.5	81.39	0.4	-492.0	885.1	819.6	65.50	13.514	
10,355.0	10,213.6	10,169.0	10,144.2	32.6	34.5	81.39	0.4	-492.0	887.5	822.3	65.27	13.597	
10,363.9	10,222.5	10,169.0	10,144.2	32.6	34.5	81.39	0.4	-492.0	888.2	823.0	65.22	13.619	
10,375.0	10,233.6	10,169.0	10,144.2	32.6	34.5	-98.11	0.4	-492.0	889.3	824.2	65.08	13.664	
10,400.0	10,258.6	10,169.0	10,144.2	32.6	34.5	-97.76	0.4	-492.0	892.2	827.4	64.81	13.767	
10,425.0	10,283.5	10,169.0	10,144.2	32.6	34.5	-97.30	0.4	-492.0	896.0	831.5	64.51	13.889	
10,450.0	10,308.2	10,169.0	10,144.2	32.7	34.5	-96.74	0.4	-492.0	900.7	836.5	64.19	14.032	
10,475.0	10,332.6	10,169.0	10,144.2	32.7	34.5	-96.07	0.4	-492.0	906.1	842.3	63.85	14.193	
10,500.0	10,356.8	10,169.0	10,144.2	32.7	34.5	-95.30	0.4	-492.0	912.4	848.9	63.49	14.371	
10,525.0	10,380.6	10,169.0	10,144.2	32.7	34.5	-94.42	0.4	-492.0	919.4	856.3	63.12	14.566	
10,545.0	10,399.3	10,169.0	10,144.2	32.7	34.5	-93.65	0.4	-492.0	925.5	862.7	62.82	14.734	
10,550.0	10,404.0	10,169.0	10,144.2	32.7	34.5	-93.45	0.4	-492.0	927.1	864.4	62.74	14.777	
10,575.0	10,426.8	10,169.0	10,144.2	32.7	34.5	-92.38	0.4	-492.0	935.5	873.2	62.36	15.001	
10,600.0	10,449.1	10,169.0	10,144.2	32.7	34.5	-91.22	0.4	-492.0	944.6	882.6	61.99	15.238	
10,625.0	10,470.8	10,169.0	10,144.2	32.8	34.5	-89.97	0.4	-492.0	954.2	892.6	61.62	15.485	
10,640.0	10,483.5	10,169.0	10,144.2	32.8	34.5	-89.17	0.4	-492.0	960.3	898.9	61.41	15.638	
10,650.0	10,491.8	10,169.0	10,144.2	32.8	34.5	-88.63	0.4	-492.0	964.4	903.1	61.27	15.741	
10,675.0	10,512.1	10,169.0	10,144.2	32.8	34.5	-87.21	0.4	-492.0	975.1	914.2	60.92	16.005	
10,700.0	10,531.6	10,169.0	10,144.2	32.8	34.5	-85.72	0.4	-492.0	986.2	925.6	60.60	16.274	
10,725.0	10,550.2	10,169.0	10,144.2	32.8	34.5	-84.16	0.4	-492.0	997.8	937.5	60.30	16.547	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.42	-0.2	-30.1	30.2				
95.0	95.0	92.1	92.1	3.0	3.0	-91.86	-1.0	-29.9	30.0	24.0	6.00	4.992	
100.0	100.0	97.1	97.1	3.0	3.0	-92.02	-1.1	-29.9	29.9	23.9	6.00	4.990	
190.0	190.0	187.1	187.0	3.0	3.0	-95.13	-2.7	-29.6	29.7	23.7	6.00	4.956	
200.0	200.0	197.0	197.0	3.0	3.0	-95.49	-2.8	-29.6	29.7	23.7	6.00	4.954	
210.0	210.0	207.0	207.0	3.0	3.0	-95.83	-3.0	-29.6	29.7	23.7	6.00	4.953	
285.0	285.0	282.0	282.0	3.0	3.0	-97.04	-3.7	-29.6	29.9	23.9	6.01	4.970	
300.0	300.0	297.0	296.9	3.0	3.0	-97.08	-3.7	-29.7	29.9	23.9	6.01	4.974	
380.0	380.0	377.0	377.0	3.0	3.0	-97.08	-3.7	-29.8	30.0	24.0	6.02	4.983	
400.0	400.0	397.1	397.1	3.0	3.0	-97.09	-3.7	-29.7	30.0	24.0	6.02	4.979	
475.0	475.0	472.2	472.2	3.0	3.0	-97.18	-3.7	-29.4	29.6	23.6	6.03	4.911	
500.0	500.0	497.2	497.2	3.1	3.0	-97.24	-3.7	-29.2	29.4	23.4	6.03	4.881	
570.0	570.0	567.2	567.2	3.1	3.0	-97.72	-3.9	-28.7	28.9	22.9	6.04	4.790	
600.0	600.0	597.2	597.2	3.1	3.0	-98.17	-4.1	-28.4	28.7	22.7	6.05	4.751	
665.0	665.0	662.1	662.1	3.1	3.1	-99.15	-4.5	-28.1	28.4	22.4	6.06	4.692	
700.0	700.0	697.1	697.0	3.1	3.1	-99.78	-4.8	-28.0	28.4	22.3	6.07	4.677	
736.4	736.4	733.5	733.4	3.1	3.1	-100.45	-5.1	-27.9	28.3	22.3	6.08	4.665	
760.0	760.0	757.0	756.9	3.1	3.1	-100.90	-5.4	-27.9	28.4	22.3	6.08	4.665	
800.0	800.0	797.0	797.0	3.2	3.1	-101.34	-5.6	-27.9	28.4	22.4	6.09	4.669	
855.0	855.0	852.2	852.2	3.2	3.1	-100.86	-5.3	-27.8	28.3	22.2	6.11	4.639	
900.0	900.0	897.2	897.2	3.2	3.1	-100.37	-5.0	-27.6	28.1	21.9	6.12	4.584	
950.0	950.0	947.2	947.1	3.2	3.1	-99.61	-4.6	-27.4	27.8	21.7	6.14	4.529	
1,000.0	1,000.0	997.1	997.1	3.2	3.1	-98.75	-4.2	-27.3	27.6	21.4	6.15	4.485	
1,045.0	1,045.0	1,042.1	1,042.1	3.3	3.1	-97.98	-3.8	-27.2	27.4	21.3	6.17	4.451	
1,100.0	1,100.0	1,097.2	1,097.1	3.3	3.1	-96.68	-3.2	-27.1	27.3	21.1	6.18	4.407	
1,140.0	1,140.0	1,137.1	1,137.1	3.3	3.1	-95.52	-2.6	-27.0	27.1	20.9	6.20	4.373	
1,200.0	1,200.0	1,197.1	1,197.0	3.4	3.1	-93.52	-1.7	-26.9	26.9	20.7	6.22	4.333	
1,235.0	1,235.0	1,232.1	1,232.0	3.4	3.1	-92.27	-1.1	-26.9	26.9	20.7	6.23	4.314	
1,272.5	1,272.5	1,269.6	1,269.5	3.4	3.1	-90.84	-0.4	-26.9	26.9	20.6	6.25	4.299	
1,300.0	1,300.0	1,297.0	1,297.0	3.4	3.1	-89.76	0.1	-26.9	26.9	20.6	6.26	4.295	
1,330.0	1,330.0	1,327.0	1,327.0	3.4	3.1	-88.62	0.6	-26.9	26.9	20.7	6.27	4.295	
1,400.0	1,400.0	1,397.0	1,396.9	3.5	3.2	-85.75	2.0	-27.1	27.1	20.8	6.30	4.311	
1,425.0	1,425.0	1,421.9	1,421.7	3.5	3.2	-84.67	2.5	-27.2	27.3	21.0	6.31	4.333	
1,500.0	1,500.0	1,496.7	1,496.5	3.5	3.2	-81.85	4.0	-28.0	28.3	21.9	6.34	4.462	
1,520.0	1,520.0	1,516.6	1,516.5	3.6	3.2	-81.22	4.4	-28.3	28.6	22.3	6.35	4.507	
1,600.0	1,600.0	1,596.6	1,596.4	3.6	3.2	-78.96	5.8	-29.5	30.0	23.6	6.39	4.701	
1,615.0	1,615.0	1,611.6	1,611.4	3.6	3.2	-78.58	6.0	-29.7	30.3	23.9	6.40	4.740	
1,700.0	1,700.0	1,696.7	1,696.6	3.7	3.2	-76.61	7.4	-30.9	31.8	25.4	6.45	4.935	
1,710.0	1,710.0	1,706.8	1,706.7	3.7	3.2	-76.44	7.5	-31.0	31.9	25.5	6.45	4.950	
1,800.0	1,800.0	1,797.4	1,797.2	3.8	3.3	-75.65	7.9	-30.8	31.8	25.3	6.50	4.883	
1,805.0	1,805.0	1,802.4	1,802.2	3.8	3.3	-75.61	7.9	-30.7	31.7	25.2	6.51	4.876	
1,900.0	1,900.0	1,897.4	1,897.3	3.9	3.3	-75.31	7.9	-30.0	31.1	24.5	6.57	4.731	
1,995.0	1,995.0	1,992.4	1,992.3	3.9	3.3	-75.04	7.8	-29.2	30.3	23.6	6.63	4.563	
2,000.0	2,000.0	1,997.4	1,997.3	3.9	3.3	-75.03	7.8	-29.2	30.2	23.6	6.63	4.554	
2,090.0	2,090.0	2,087.4	2,087.2	4.1	3.4	-62.55	7.6	-28.5	28.8	22.1	6.68	4.307	
2,100.0	2,100.0	2,097.4	2,097.2	4.2	3.4	-63.17	7.6	-28.4	28.6	21.9	6.69	4.270	
2,185.0	2,184.9	2,182.3	2,182.1	4.7	3.4	-71.84	7.2	-27.7	26.2	19.5	6.73	3.895	
2,200.0	2,199.8	2,197.3	2,197.1	4.8	3.4	-74.06	7.2	-27.6	25.8	19.1	6.74	3.825	
2,250.0	2,249.7	2,247.0	2,246.9	4.9	3.4	-83.15	7.1	-27.2	24.6	17.8	6.85	3.593	
2,280.0	2,279.6	2,276.9	2,276.7	5.0	3.5	-89.53	7.0	-27.0	24.2	17.3	6.97	3.476	
2,297.4	2,296.9	2,294.2	2,294.0	5.0	3.5	-93.28	6.9	-26.8	24.2	17.1	7.06	3.423 CC	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP													Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 10226-MWD+IFR1+MS						Rule Assigned:					Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis					Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
2,300.0	2,299.5	2,296.8	2,296.6	5.0	3.5	-93.84	6.9	-26.8	24.2	17.1	7.08	3.416	ES	
2,375.0	2,374.2	2,371.4	2,371.3	5.1	3.5	-109.46	6.7	-26.5	25.3	17.7	7.58	3.334	SF	
2,400.0	2,399.1	2,396.3	2,396.1	5.1	3.5	-114.26	6.6	-26.4	26.1	18.3	7.76	3.360		
2,470.0	2,468.8	2,466.0	2,465.8	5.2	3.5	-126.07	6.3	-26.1	29.2	21.0	8.20	3.559		
2,500.0	2,498.7	2,495.9	2,495.7	5.3	3.6	-130.41	6.1	-25.9	30.9	22.5	8.36	3.692		
2,535.0	2,533.6	2,530.8	2,530.6	5.3	3.6	-134.89	5.9	-25.8	33.0	24.5	8.51	3.879		
2,565.0	2,563.5	2,560.6	2,560.4	5.3	3.6	-131.58	5.8	-25.6	34.8	26.2	8.63	4.037		
2,600.0	2,598.4	2,595.5	2,595.3	5.4	3.6	-127.29	5.6	-25.4	36.8	28.1	8.76	4.203		
2,660.0	2,658.1	2,655.2	2,655.0	5.6	3.6	-120.01	5.3	-25.1	39.8	30.7	9.12	4.363		
2,700.0	2,698.0	2,695.0	2,694.8	5.8	3.7	-115.97	5.1	-25.0	41.6	32.3	9.34	4.459		
2,755.0	2,752.8	2,749.5	2,749.3	6.1	3.7	-112.49	4.6	-24.5	44.2	34.5	9.66	4.573		
2,800.0	2,797.5	2,794.1	2,793.9	6.4	3.7	-111.36	4.0	-24.0	46.4	36.6	9.89	4.698		
2,850.0	2,847.2	2,843.6	2,843.4	6.6	3.7	-111.67	3.3	-23.4	49.3	39.2	10.08	4.894		
2,900.0	2,896.8	2,892.8	2,892.6	6.9	3.8	-113.31	2.5	-22.8	52.7	42.4	10.24	5.144		
2,945.0	2,941.4	2,937.1	2,936.8	7.0	3.8	-115.67	1.6	-22.0	56.4	46.0	10.41	5.422		
3,000.0	2,995.7	2,990.6	2,990.3	7.2	3.8	-119.29	0.3	-20.6	62.1	51.6	10.53	5.904		
3,040.0	3,035.2	3,029.8	3,029.5	7.4	3.9	-122.18	-0.8	-19.4	67.2	56.6	10.61	6.332		
3,100.0	3,094.2	3,088.3	3,087.9	7.6	3.9	-126.46	-2.4	-17.6	75.9	65.1	10.81	7.019		
3,135.0	3,128.5	3,122.4	3,122.0	7.6	3.9	-128.85	-3.3	-16.4	81.6	70.8	10.84	7.529		
3,156.0	3,149.1	3,142.9	3,142.5	7.7	3.9	-130.22	-3.9	-15.8	85.3	74.4	10.87	7.849		
3,200.0	3,192.1	3,185.5	3,185.1	7.8	4.0	-134.45	-5.1	-14.4	93.4	82.5	10.89	8.575		
3,230.0	3,221.4	3,214.6	3,214.1	7.8	4.0	-136.95	-5.9	-13.4	99.2	88.3	10.93	9.080		
3,300.0	3,289.9	3,283.2	3,282.6	8.0	4.0	-141.81	-7.8	-11.2	113.3	102.3	11.04	10.266		
3,325.0	3,314.4	3,308.0	3,307.4	8.0	4.1	-143.29	-8.4	-10.5	118.4	107.3	11.09	10.669		
3,400.0	3,387.7	3,387.0	3,386.4	8.2	4.1	-147.05	-10.0	-10.2	132.2	120.9	11.29	11.707		
3,420.0	3,407.3	3,407.5	3,406.9	8.3	4.1	-147.84	-10.3	-10.7	135.4	124.0	11.34	11.941		
3,500.0	3,485.5	3,486.9	3,486.3	8.5	4.1	-150.58	-11.3	-13.1	147.9	136.4	11.52	12.834		
3,515.0	3,500.2	3,501.9	3,501.2	8.5	4.1	-151.05	-11.4	-13.6	150.3	138.7	11.56	12.996		
3,600.0	3,583.3	3,585.6	3,584.9	8.7	4.1	-153.39	-12.3	-16.3	163.7	151.9	11.78	13.896		
3,610.0	3,593.1	3,595.4	3,594.7	8.8	4.1	-153.64	-12.5	-16.6	165.3	153.5	11.81	13.999		
3,700.0	3,681.2	3,683.8	3,683.0	9.0	4.1	-155.65	-13.6	-19.5	179.9	167.8	12.06	14.916		
3,705.0	3,686.0	3,688.7	3,688.0	9.0	4.1	-155.76	-13.6	-19.6	180.7	168.6	12.07	14.966		
3,800.0	3,779.0	3,790.8	3,789.9	9.3	4.2	-157.79	-14.4	-23.7	195.6	183.2	12.37	15.809		
3,895.0	3,871.9	3,902.2	3,900.2	9.6	4.2	-161.82	-5.6	-36.9	201.3	188.6	12.64	15.917		
3,900.0	3,876.8	3,907.2	3,905.1	9.6	4.2	-162.02	-5.0	-37.6	201.5	188.8	12.66	15.917		
3,990.0	3,964.8	3,996.8	3,993.3	9.8	4.2	-165.61	4.4	-50.1	205.7	192.8	12.91	15.932		
4,000.0	3,974.6	4,006.6	4,002.9	9.9	4.2	-166.00	5.4	-51.5	206.2	193.2	12.94	15.935		
4,085.0	4,057.7	4,089.5	4,084.5	10.1	4.2	-169.14	14.0	-63.0	211.1	197.9	13.19	15.998		
4,100.0	4,072.4	4,104.2	4,099.0	10.2	4.2	-169.67	15.5	-64.9	212.0	198.8	13.24	16.016		
4,180.0	4,150.7	4,183.2	4,176.9	10.4	4.2	-172.42	23.4	-75.6	217.6	204.1	13.49	16.123		
4,200.0	4,170.2	4,202.6	4,196.1	10.5	4.2	-173.07	25.3	-78.2	219.1	205.5	13.56	16.155		
4,275.0	4,243.6	4,276.8	4,269.2	10.7	4.3	-175.47	32.6	-88.1	224.9	211.1	13.81	16.282		
4,300.0	4,268.0	4,301.0	4,293.2	10.8	4.3	-176.21	35.0	-91.3	227.0	213.1	13.90	16.331		
4,370.0	4,336.5	4,369.1	4,360.3	11.0	4.3	-178.16	41.3	-100.0	233.3	219.1	14.14	16.494		
4,400.0	4,365.9	4,398.3	4,389.2	11.1	4.3	-178.94	43.9	-103.6	236.2	221.9	14.25	16.572		
4,465.0	4,429.4	4,461.9	4,452.2	11.3	4.3	179.52	49.3	-111.2	242.7	228.2	14.49	16.754		
4,500.0	4,463.7	4,496.9	4,486.8	11.4	4.3	178.72	52.2	-115.4	246.3	231.7	14.62	16.850		
4,560.0	4,522.4	4,556.3	4,545.6	11.6	4.4	177.41	57.1	-122.6	252.6	237.7	14.85	17.013		
4,600.0	4,561.5	4,595.7	4,584.6	11.8	4.4	176.59	60.3	-127.3	256.8	241.8	15.00	17.124		
4,655.0	4,615.3	4,650.1	4,638.3	11.9	4.4	175.53	64.6	-133.8	262.8	247.6	15.21	17.276		
4,700.0	4,659.3	4,697.5	4,685.3	12.1	4.5	174.66	68.2	-139.6	267.6	252.2	15.39	17.381		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,750.0	4,708.2	4,756.6	4,743.6	12.3	4.5	173.74	71.7	-148.3	271.4	255.8	15.61	17.385	
4,800.0	4,757.1	4,807.0	4,793.3	12.4	4.5	173.05	74.3	-156.3	274.7	258.9	15.82	17.369	
4,845.0	4,801.1	4,851.2	4,836.9	12.6	4.6	172.46	76.5	-163.4	277.7	261.7	16.00	17.359	
4,900.0	4,854.9	4,905.4	4,890.3	12.8	4.6	171.76	79.2	-171.9	281.4	265.2	16.22	17.355	
4,940.0	4,894.1	4,944.1	4,928.5	12.9	4.6	171.28	81.1	-177.9	284.3	268.0	16.38	17.361	
5,000.0	4,952.8	5,007.3	4,990.9	13.1	4.7	170.65	83.6	-187.6	288.6	272.0	16.63	17.351	
5,035.0	4,987.0	5,044.3	5,027.4	13.2	4.7	170.46	84.1	-193.4	290.7	273.9	16.78	17.319	
5,100.0	5,050.6	5,107.6	5,089.9	13.5	4.7	170.27	84.3	-203.3	294.5	277.5	17.05	17.272	
5,130.0	5,079.9	5,137.0	5,119.0	13.6	4.8	170.20	84.3	-207.7	296.4	279.2	17.18	17.257	
5,200.0	5,148.4	5,205.2	5,186.5	13.8	4.8	170.08	84.3	-217.7	301.1	283.6	17.47	17.238	
5,225.0	5,172.8	5,229.7	5,210.8	13.9	4.8	170.05	84.2	-221.2	302.8	285.2	17.57	17.235	
5,300.0	5,246.2	5,304.1	5,284.5	14.2	4.9	169.94	84.2	-231.7	308.2	290.3	17.89	17.228	
5,320.0	5,265.8	5,323.8	5,303.9	14.2	4.9	169.91	84.3	-234.4	309.6	291.6	17.97	17.227	
5,400.0	5,344.0	5,403.4	5,382.7	14.5	5.0	169.78	84.4	-245.6	315.4	297.1	18.31	17.223	
5,415.0	5,358.7	5,418.4	5,397.6	14.6	5.0	169.76	84.4	-247.7	316.5	298.2	18.38	17.223	
5,500.0	5,441.8	5,503.6	5,481.9	14.9	5.0	169.67	84.3	-259.6	322.7	303.9	18.75	17.213	
5,510.0	5,451.6	5,513.4	5,491.6	14.9	5.0	169.67	84.3	-261.0	323.4	304.6	18.79	17.212	
5,600.0	5,539.6	5,601.5	5,578.9	15.2	5.1	169.64	83.9	-273.0	330.2	311.0	19.18	17.217	
5,605.0	5,544.5	5,606.4	5,583.8	15.2	5.1	169.64	83.9	-273.6	330.6	311.4	19.20	17.218	
5,700.0	5,637.5	5,701.0	5,677.5	15.6	5.2	169.67	83.3	-286.1	338.0	318.4	19.61	17.232	
5,795.0	5,730.4	5,794.3	5,770.0	15.9	5.3	169.72	82.6	-298.3	345.6	325.5	20.03	17.253	
5,800.0	5,735.3	5,799.1	5,774.9	15.9	5.3	169.73	82.5	-298.9	346.0	325.9	20.05	17.255	
5,890.0	5,823.3	5,886.3	5,861.3	16.3	5.3	169.86	81.6	-309.6	353.7	333.3	20.44	17.305	
5,900.0	5,833.1	5,896.3	5,871.3	16.3	5.4	169.88	81.4	-310.7	354.6	334.2	20.49	17.311	
5,985.0	5,916.2	5,980.1	5,954.5	16.6	5.4	170.05	80.3	-320.5	362.3	341.5	20.86	17.368	
6,000.0	5,930.9	5,994.6	5,969.0	16.7	5.4	170.08	80.1	-322.2	363.7	342.8	20.93	17.379	
6,080.0	6,009.2	6,070.9	6,044.7	17.0	5.5	170.26	79.1	-330.6	371.5	350.2	21.27	17.463	
6,100.0	6,028.7	6,090.2	6,063.9	17.0	5.5	170.31	78.8	-332.6	373.6	352.2	21.36	17.488	
6,175.0	6,102.1	6,164.0	6,137.4	17.3	5.6	170.52	77.7	-340.0	381.5	359.8	21.70	17.582	
6,200.0	6,126.5	6,188.7	6,161.9	17.4	5.6	170.60	77.2	-342.5	384.2	362.3	21.81	17.613	
6,270.0	6,195.0	6,257.4	6,230.2	17.6	5.6	170.80	76.1	-349.2	391.6	369.5	22.12	17.702	
6,300.0	6,224.3	6,286.1	6,258.9	17.8	5.7	170.88	75.7	-352.0	395.0	372.7	22.26	17.746	
6,365.0	6,287.9	6,350.0	6,322.4	18.0	5.7	170.95	75.4	-358.3	402.2	379.6	22.55	17.836	
6,400.0	6,322.2	6,384.1	6,356.3	18.1	5.7	170.93	75.7	-361.7	406.2	383.5	22.71	17.888	
6,460.0	6,380.8	6,442.0	6,414.0	18.3	5.8	170.89	76.2	-367.3	413.2	390.2	22.97	17.985	
6,500.0	6,420.0	6,481.0	6,452.8	18.5	5.8	170.88	76.6	-370.9	418.0	394.8	23.15	18.052	
6,555.0	6,473.8	6,534.4	6,506.0	18.7	5.9	170.87	77.0	-375.7	424.7	401.3	23.40	18.149	
6,600.0	6,517.8	6,578.3	6,549.7	18.9	5.9	170.87	77.3	-379.6	430.3	406.7	23.60	18.231	
6,650.0	6,566.7	6,628.3	6,599.5	19.0	6.0	170.88	77.6	-384.0	436.5	412.7	23.84	18.314	
6,700.0	6,615.6	6,677.6	6,648.6	19.2	6.0	170.91	77.7	-388.3	442.7	418.7	24.06	18.398	
6,745.0	6,659.6	6,721.7	6,692.6	19.4	6.0	170.95	77.8	-392.0	448.4	424.1	24.27	18.474	
6,800.0	6,713.4	6,775.4	6,746.1	19.6	6.1	171.01	77.8	-396.4	455.4	430.9	24.52	18.571	
6,840.0	6,752.5	6,814.3	6,784.8	19.7	6.1	171.05	77.8	-399.6	460.6	435.8	24.70	18.643	
6,900.0	6,811.2	6,872.7	6,843.1	20.0	6.2	171.13	77.7	-404.2	468.4	443.4	24.98	18.753	
6,935.0	6,845.5	6,906.7	6,877.0	20.1	6.2	171.18	77.6	-406.8	473.1	447.9	25.14	18.819	
7,000.0	6,909.0	6,970.2	6,940.3	20.3	6.2	171.28	77.5	-411.5	481.8	456.4	25.44	18.941	
7,030.0	6,938.4	6,998.9	6,969.0	20.5	6.3	171.33	77.3	-413.6	485.9	460.3	25.57	19.001	
7,100.0	7,006.9	7,068.1	7,038.0	20.7	6.3	171.45	77.0	-418.4	495.5	469.6	25.90	19.133	
7,125.0	7,031.3	7,092.6	7,062.4	20.8	6.3	171.50	76.9	-420.2	499.0	473.0	26.02	19.180	
7,200.0	7,104.7	7,164.9	7,134.6	21.1	6.4	171.65	76.4	-425.0	509.5	483.2	26.36	19.329	
7,220.0	7,124.2	7,184.8	7,154.4	21.2	6.4	171.70	76.2	-426.3	512.4	485.9	26.45	19.368	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Factor	
							+N/-S (usft)	+E/-W (usft)				
7,300.0	7,202.5	7,263.2	7,232.6	21.5	6.5	171.86	75.6	-431.4	523.8	496.9	26.83	19.523
7,315.0	7,217.2	7,277.8	7,247.2	21.5	6.5	171.90	75.5	-432.3	525.9	499.0	26.90	19.553
7,400.0	7,300.3	7,363.4	7,332.6	21.8	6.6	172.07	74.8	-437.7	538.2	510.9	27.31	19.709
7,410.0	7,310.1	7,373.8	7,343.0	21.9	6.6	172.09	74.8	-438.4	539.6	512.2	27.36	19.725
7,500.0	7,398.1	7,466.3	7,435.2	22.2	6.7	172.19	74.6	-445.1	551.9	524.1	27.80	19.856
7,505.0	7,403.0	7,471.2	7,440.2	22.2	6.7	172.19	74.6	-445.5	552.6	524.8	27.82	19.864
7,600.0	7,495.9	7,562.6	7,531.3	22.6	6.8	172.30	74.4	-452.1	565.5	537.3	28.26	20.012
7,695.0	7,588.9	7,653.1	7,621.6	22.9	6.9	172.41	74.1	-458.1	579.0	550.3	28.70	20.178
7,700.0	7,593.8	7,657.9	7,626.4	23.0	6.9	172.42	74.1	-458.4	579.8	551.0	28.72	20.187
7,790.0	7,681.8	7,746.5	7,714.8	23.3	6.9	172.50	74.1	-464.1	592.9	563.7	29.15	20.341
7,800.0	7,691.6	7,756.3	7,724.5	23.3	6.9	172.51	74.1	-464.7	594.3	565.1	29.19	20.358
7,885.0	7,774.7	7,836.3	7,804.5	23.7	7.0	172.54	74.7	-469.7	607.0	577.4	29.58	20.518
7,900.0	7,789.4	7,850.0	7,818.1	23.7	7.0	172.54	74.8	-470.5	609.3	579.6	29.65	20.550
7,980.0	7,867.6	7,925.9	7,893.9	24.0	7.1	172.52	76.1	-474.7	621.9	591.9	30.01	20.722
8,000.0	7,887.2	7,945.7	7,913.7	24.1	7.1	172.51	76.4	-475.8	625.1	595.0	30.11	20.763
8,075.0	7,960.6	8,020.7	7,988.6	24.4	7.2	172.49	77.6	-479.9	637.0	606.6	30.47	20.908
8,100.0	7,985.0	8,047.0	8,014.7	24.5	7.2	172.49	78.0	-481.3	641.0	610.4	30.59	20.951
8,170.0	8,053.5	8,126.6	8,094.2	24.7	7.3	172.49	78.8	-486.4	651.4	620.4	30.97	21.032
8,200.0	8,082.8	8,157.3	8,124.8	24.9	7.3	172.48	79.2	-488.6	655.5	624.4	31.12	21.067
8,265.0	8,146.4	8,220.9	8,188.2	25.1	7.4	172.42	80.4	-493.5	664.6	633.1	31.43	21.147
8,300.0	8,180.6	8,255.2	8,222.4	25.2	7.4	172.37	81.1	-496.1	669.5	637.9	31.59	21.192
8,360.0	8,239.3	8,315.0	8,282.1	25.5	7.5	172.31	82.4	-500.6	677.9	646.0	31.88	21.264
8,400.0	8,278.5	8,358.1	8,325.1	25.6	7.5	172.30	82.8	-503.8	683.4	651.3	32.09	21.298
8,455.0	8,332.3	8,418.1	8,384.9	25.8	7.6	172.38	82.2	-508.5	690.5	658.2	32.38	21.328
8,500.0	8,376.3	8,462.4	8,429.0	26.0	7.7	172.46	81.5	-512.0	696.2	663.6	32.59	21.361
8,550.0	8,425.2	8,511.1	8,477.6	26.2	7.7	172.55	80.8	-515.8	702.6	669.8	32.83	21.401
8,600.0	8,474.1	8,559.1	8,525.4	26.4	7.8	172.63	80.0	-519.5	709.1	676.0	33.07	21.442
8,645.0	8,518.1	8,600.0	8,566.2	26.5	7.8	172.71	79.3	-522.5	715.0	681.8	33.27	21.490
8,700.0	8,571.9	8,650.0	8,616.1	26.7	7.9	172.82	78.3	-525.8	722.6	689.1	33.52	21.556
8,740.0	8,611.0	8,685.8	8,651.7	26.9	7.9	172.91	77.5	-527.9	728.4	694.7	33.70	21.614
8,800.0	8,669.7	8,744.5	8,710.4	27.1	8.0	173.08	76.0	-531.1	737.3	703.3	33.99	21.692
8,835.0	8,704.0	8,779.9	8,745.7	27.3	8.0	173.20	74.9	-533.0	742.5	708.3	34.16	21.733
8,900.0	8,767.5	8,841.6	8,807.3	27.5	8.1	173.40	72.9	-536.2	752.1	717.6	34.47	21.820
8,930.0	8,796.9	8,864.1	8,829.8	27.6	8.1	173.47	72.2	-537.3	756.7	722.1	34.59	21.879
9,000.0	8,865.3	8,917.1	8,882.8	27.9	8.1	173.62	71.0	-538.9	768.7	733.9	34.86	22.050
9,025.0	8,889.8	8,938.3	8,903.9	28.0	8.2	173.68	70.6	-539.4	773.3	738.3	34.97	22.113
9,106.4	8,969.4	9,013.3	8,978.9	28.3	8.2	173.87	69.4	-540.4	788.7	753.4	35.34	22.316
9,120.0	8,982.7	9,027.1	8,992.7	28.3	8.2	173.91	69.2	-540.6	791.3	755.9	35.41	22.345
9,200.0	9,061.3	9,108.1	9,073.6	28.7	8.3	174.11	68.1	-541.8	804.9	769.1	35.82	22.470
9,215.0	9,076.1	9,123.1	9,088.7	28.7	8.3	174.14	67.9	-542.1	807.2	771.3	35.91	22.482
9,300.0	9,160.0	9,205.0	9,170.6	29.1	8.4	174.30	67.0	-543.4	818.9	782.5	36.37	22.517
9,310.0	9,169.9	9,214.1	9,179.7	29.1	8.4	174.32	66.9	-543.5	820.1	783.7	36.42	22.518
9,400.0	9,259.2	9,299.7	9,265.3	29.5	8.5	174.47	65.8	-544.4	829.9	793.0	36.89	22.496
9,405.0	9,264.2	9,304.7	9,270.2	29.5	8.5	174.48	65.7	-544.4	830.4	793.5	36.92	22.493
9,500.0	9,358.8	9,396.9	9,362.4	29.9	8.6	174.62	64.5	-545.1	837.8	800.4	37.41	22.397
9,595.0	9,453.7	9,487.8	9,453.3	30.2	8.7	174.72	63.4	-545.4	842.5	804.6	37.88	22.245
9,600.0	9,458.7	9,493.0	9,458.5	30.2	8.7	174.73	63.4	-545.4	842.7	804.8	37.90	22.234
9,690.0	9,548.6	9,582.8	9,548.3	30.6	8.8	174.76	63.0	-545.6	844.4	806.1	38.27	22.064
9,706.4	9,565.0	9,599.5	9,565.0	30.6	8.8	76.64	63.0	-545.6	844.3	806.0	38.34	22.023
9,785.0	9,643.6	9,681.3	9,646.8	30.9	8.9	76.60	63.5	-546.2	843.9	805.2	38.67	21.823
9,800.0	9,658.6	9,697.1	9,662.7	30.9	8.9	76.59	63.7	-546.4	843.8	805.1	38.73	21.785

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Factor	
							+N/-S (usft)	+E/-W (usft)				
9,880.0	9,738.6	9,778.1	9,743.6	31.1	8.9	76.53	64.3	-547.3	843.0	804.0	39.06	21.583
9,900.0	9,758.6	9,797.0	9,762.6	31.2	9.0	76.51	64.5	-547.5	842.8	803.7	39.14	21.536
9,975.0	9,833.6	9,870.3	9,835.8	31.4	9.0	76.47	64.9	-548.2	842.3	802.8	39.44	21.358
10,000.0	9,858.6	9,896.0	9,861.5	31.5	9.0	76.46	65.0	-548.4	842.1	802.6	39.54	21.298
10,070.0	9,928.6	9,965.4	9,930.9	31.7	9.1	76.43	65.4	-548.9	841.7	801.9	39.82	21.135
10,100.0	9,958.6	9,994.4	9,959.9	31.8	9.1	76.42	65.5	-549.1	841.5	801.6	39.94	21.068
10,165.0	10,023.6	10,059.9	10,025.4	32.0	9.2	76.39	65.9	-549.6	841.2	800.9	40.21	20.920
10,200.0	10,058.6	10,095.6	10,061.1	32.1	9.2	76.37	66.1	-549.8	841.0	800.6	40.35	20.841
10,260.0	10,118.6	10,155.9	10,121.4	32.3	9.3	76.32	66.7	-550.5	840.5	799.9	40.58	20.710
10,300.0	10,158.6	10,194.8	10,160.3	32.4	9.3	76.31	66.8	-550.7	840.3	799.5	40.73	20.632
10,355.0	10,213.6	10,262.3	10,227.7	32.6	9.3	76.40	65.4	-551.0	839.8	798.8	41.01	20.477
10,363.9	10,222.5	10,276.3	10,241.7	32.6	9.3	76.46	64.4	-551.1	839.6	798.5	41.08	20.437
10,375.0	10,233.6	10,293.5	10,258.8	32.6	9.4	-103.09	62.5	-551.2	839.3	798.1	41.19	20.379
10,400.0	10,258.6	10,330.6	10,295.3	32.6	9.6	-102.88	56.2	-551.2	838.6	797.2	41.33	20.288
10,425.0	10,283.5	10,364.4	10,327.8	32.6	10.0	-102.55	46.7	-550.8	837.8	796.4	41.46	20.208
10,450.0	10,308.2	10,378.6	10,341.2	32.7	10.1	-102.42	41.9	-550.4	837.4	796.0	41.43	20.215
10,454.9	10,313.0	10,381.7	10,344.0	32.7	10.1	-102.38	40.9	-550.3	837.4	796.0	41.42	20.217
10,475.0	10,332.6	10,394.2	10,355.7	32.7	10.2	-102.23	36.5	-549.7	837.6	796.2	41.41	20.229
10,500.0	10,356.8	10,407.0	10,367.6	32.7	10.4	-102.03	31.8	-549.0	838.3	797.0	41.37	20.266
10,525.0	10,380.6	10,428.2	10,387.1	32.7	10.5	-101.73	23.5	-547.5	839.6	798.2	41.38	20.290
10,545.0	10,399.3	10,442.5	10,399.9	32.7	10.6	-101.47	17.4	-546.2	840.9	799.5	41.37	20.325
10,550.0	10,404.0	10,446.1	10,403.1	32.7	10.6	-101.40	15.8	-545.9	841.3	799.9	41.37	20.336
10,575.0	10,426.8	10,465.0	10,419.8	32.7	10.8	-101.03	6.9	-543.9	843.5	802.1	41.36	20.393
10,600.0	10,449.1	10,484.6	10,436.5	32.7	10.9	-100.60	-3.0	-541.5	846.1	804.7	41.35	20.460
10,625.0	10,470.8	10,511.2	10,458.4	32.8	11.1	-100.09	-17.7	-537.9	849.0	807.6	41.38	20.516
10,640.0	10,483.5	10,536.3	10,478.1	32.8	11.4	-99.69	-32.8	-534.5	850.7	809.3	41.45	20.527
10,650.0	10,491.8	10,837.9	10,666.7	32.8	12.4	-93.89	-263.1	-537.1	849.7	805.7	43.99	19.316
10,675.0	10,512.1	10,857.7	10,674.3	32.8	12.5	-93.82	-281.2	-539.7	844.7	800.7	43.96	19.213
10,700.0	10,531.6	10,874.8	10,680.3	32.8	12.5	-93.81	-297.0	-541.9	839.9	796.0	43.91	19.127
10,725.0	10,550.2	10,891.1	10,685.4	32.8	12.6	-93.79	-312.4	-543.7	835.6	791.7	43.86	19.052
10,735.0	10,557.4	10,897.5	10,687.2	32.9	12.6	-93.77	-318.5	-544.4	834.0	790.1	43.84	19.025
10,750.0	10,567.9	10,907.4	10,689.7	32.9	12.6	-93.72	-328.0	-545.3	831.6	787.8	43.80	18.986
10,775.0	10,584.7	10,929.1	10,695.1	32.9	12.6	-93.47	-349.0	-547.4	828.0	784.2	43.78	18.913
10,800.0	10,600.5	10,951.3	10,700.3	32.9	12.6	-93.23	-370.4	-549.4	824.6	780.8	43.77	18.841
10,825.0	10,615.2	10,971.6	10,704.8	32.9	12.7	-93.06	-390.2	-551.2	821.4	777.7	43.74	18.779
10,830.0	10,618.1	10,975.7	10,705.7	32.9	12.7	-93.02	-394.1	-551.6	820.8	777.1	43.74	18.767
10,850.0	10,628.9	10,991.9	10,708.9	33.0	12.7	-92.89	-410.0	-552.9	818.5	774.8	43.72	18.720
10,875.0	10,641.5	11,013.4	10,712.7	33.0	12.7	-92.71	-431.0	-554.6	815.8	772.1	43.72	18.659
10,900.0	10,652.9	11,035.5	10,716.4	33.0	12.7	-92.55	-452.7	-556.3	813.3	769.6	43.74	18.596
10,925.0	10,663.1	11,054.9	10,719.6	33.0	12.7	-92.48	-471.9	-557.7	811.0	767.3	43.75	18.536
10,950.0	10,672.1	11,073.4	10,722.3	33.1	12.8	-92.44	-490.1	-558.9	809.0	765.2	43.78	18.479
10,975.0	10,679.9	11,092.4	10,724.8	33.1	12.8	-92.41	-509.0	-559.9	807.2	763.4	43.82	18.422
11,000.0	10,686.5	11,112.9	10,727.3	33.1	12.8	-92.40	-529.2	-560.9	805.7	761.8	43.88	18.361
11,020.0	10,690.8	11,133.0	10,729.6	33.1	12.8	-92.39	-549.2	-561.8	804.6	760.6	43.95	18.307
11,025.0	10,691.7	11,133.0	10,729.6	33.1	12.8	-92.42	-549.2	-561.8	804.3	760.3	43.95	18.302
11,050.0	10,695.7	11,133.0	10,729.6	33.2	12.8	-92.52	-549.2	-561.8	803.5	759.5	43.94	18.286
11,075.0	10,698.4	11,161.9	10,732.3	33.2	12.9	-92.56	-578.0	-562.6	802.6	758.4	44.19	18.160
11,100.0	10,699.8	11,176.3	10,733.5	33.2	12.9	-92.61	-592.3	-562.7	802.3	757.9	44.33	18.097
11,105.8	10,699.9	11,179.6	10,733.7	33.2	12.9	-92.63	-595.6	-562.7	802.3	757.9	44.37	18.083
11,113.9	10,700.0	11,184.2	10,734.0	33.2	13.0	-92.64	-600.2	-562.6	802.3	757.9	44.41	18.064
11,115.0	10,700.0	11,184.9	10,734.0	33.2	13.0	-92.65	-600.9	-562.6	802.3	757.9	44.42	18.061

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)				
11,200.0	10,700.0	11,241.4	10,736.4	33.3	13.2	-92.81	-657.3	-560.7	804.6	759.6	44.98	17.889
11,210.0	10,700.0	11,251.3	10,736.6	33.4	13.2	-92.82	-667.2	-560.3	805.0	759.9	45.07	17.863
11,300.0	10,700.0	11,336.5	10,735.8	33.5	13.5	-92.75	-752.3	-556.0	808.8	763.1	45.74	17.683
11,305.0	10,700.0	11,340.8	10,735.7	33.5	13.5	-92.75	-756.6	-555.8	809.1	763.3	45.77	17.679
11,400.0	10,700.0	11,431.1	10,735.9	33.6	13.8	-92.74	-846.7	-550.2	814.3	768.0	46.30	17.588
11,495.0	10,700.0	11,561.8	10,740.0	33.8	14.4	-93.01	-977.3	-545.2	817.6	770.3	47.24	17.308
11,500.0	10,700.0	11,569.2	10,740.1	33.8	14.4	-93.02	-984.6	-545.1	817.6	770.3	47.29	17.289
11,590.0	10,700.0	11,665.6	10,742.3	33.9	14.9	-93.17	-1,081.0	-544.5	817.7	769.7	48.00	17.035
11,600.0	10,700.0	11,675.8	10,742.6	33.9	14.9	-93.19	-1,091.2	-544.5	817.7	769.6	48.07	17.008
11,685.0	10,700.0	11,761.8	10,744.9	34.1	15.3	-93.36	-1,177.1	-544.2	817.5	768.8	48.69	16.790
11,700.0	10,700.0	11,783.6	10,745.3	34.1	15.4	-93.39	-1,199.0	-544.2	817.4	768.6	48.86	16.731
11,780.0	10,700.0	11,878.3	10,743.9	34.3	16.0	-93.30	-1,293.6	-546.3	814.9	765.2	49.66	16.409
11,800.0	10,700.0	11,890.5	10,743.7	34.3	16.1	-93.29	-1,305.8	-546.5	814.4	764.6	49.81	16.352
11,839.7	10,700.0	11,914.8	10,743.5	34.4	16.3	-93.28	-1,330.1	-546.6	814.0	763.9	50.10	16.250
11,875.0	10,700.0	11,948.0	10,743.8	34.5	16.6	-93.30	-1,363.3	-546.0	814.5	764.0	50.48	16.134
11,900.0	10,700.0	11,953.5	10,743.9	34.5	16.6	-93.30	-1,368.8	-545.8	814.9	764.4	50.54	16.122
11,970.0	10,700.0	12,018.7	10,746.0	34.7	17.0	-93.44	-1,433.9	-543.6	817.0	765.8	51.19	15.959
12,000.0	10,700.0	12,048.4	10,747.5	34.8	17.2	-93.54	-1,463.6	-542.5	818.0	766.5	51.47	15.891
12,065.0	10,700.0	12,121.9	10,750.5	34.9	17.6	-93.75	-1,537.0	-540.2	819.8	767.7	52.09	15.736
12,100.0	10,700.0	12,155.3	10,751.7	35.0	17.8	-93.82	-1,570.3	-539.3	820.6	768.2	52.38	15.666
12,160.0	10,700.0	12,210.1	10,753.6	35.2	18.1	-93.95	-1,625.0	-537.5	822.2	769.4	52.85	15.557
12,200.0	10,700.0	12,248.0	10,754.9	35.3	18.3	-94.04	-1,662.9	-536.1	823.5	770.3	53.18	15.484
12,255.0	10,700.0	12,300.7	10,756.8	35.4	18.6	-94.16	-1,715.5	-534.1	825.4	771.7	53.65	15.384
12,300.0	10,700.0	12,353.5	10,758.1	35.5	18.9	-94.24	-1,768.3	-532.1	826.9	772.7	54.13	15.276
12,350.0	10,700.0	12,412.6	10,757.7	35.7	19.3	-94.21	-1,827.3	-530.5	827.9	773.2	54.66	15.147
12,400.0	10,700.0	12,462.9	10,756.3	35.8	19.6	-94.11	-1,877.6	-529.3	828.6	773.5	55.10	15.039
12,445.0	10,700.0	12,508.2	10,754.6	36.0	19.9	-93.98	-1,922.9	-528.2	829.3	773.8	55.50	14.942
12,500.0	10,700.0	12,564.1	10,754.0	36.1	20.2	-93.94	-1,978.7	-527.0	830.1	774.1	56.01	14.820
12,540.0	10,700.0	12,605.7	10,755.1	36.3	20.5	-94.01	-2,020.4	-526.3	830.6	774.2	56.42	14.723
12,600.0	10,700.0	12,669.4	10,758.0	36.5	20.8	-94.21	-2,084.0	-525.5	831.2	774.2	57.05	14.571
12,635.0	10,700.0	12,708.2	10,759.8	36.6	21.1	-94.33	-2,122.7	-525.1	831.4	774.0	57.44	14.475
12,700.0	10,700.0	12,780.6	10,760.5	36.8	21.5	-94.38	-2,195.1	-524.8	831.3	773.2	58.14	14.298
12,730.0	10,700.0	12,814.2	10,760.0	36.9	21.7	-94.35	-2,228.7	-524.8	831.1	772.6	58.47	14.214
12,800.0	10,700.0	12,890.0	10,757.4	37.1	22.2	-94.17	-2,304.4	-525.2	830.1	770.9	59.19	14.023
12,825.0	10,700.0	12,916.1	10,756.2	37.2	22.4	-94.09	-2,330.5	-525.4	829.6	770.2	59.44	13.956
12,900.0	10,700.0	12,997.1	10,751.8	37.5	22.9	-93.79	-2,411.4	-526.3	828.0	767.8	60.22	13.751
12,920.0	10,700.0	13,019.2	10,750.7	37.6	23.1	-93.72	-2,433.4	-526.7	827.5	767.1	60.43	13.693
13,000.0	10,700.0	13,089.6	10,747.7	37.9	23.5	-93.52	-2,503.8	-527.8	825.6	764.4	61.15	13.500
13,015.0	10,700.0	13,102.2	10,747.2	37.9	23.6	-93.49	-2,516.4	-527.9	825.3	764.1	61.28	13.468
13,100.0	10,700.0	13,176.3	10,745.0	38.2	24.1	-93.34	-2,590.4	-527.7	824.8	762.7	62.06	13.290
13,101.6	10,700.0	13,177.7	10,745.0	38.2	24.1	-93.33	-2,591.8	-527.7	824.8	762.7	62.08	13.287
13,110.0	10,700.0	13,185.2	10,744.9	38.3	24.1	-93.33	-2,599.3	-527.6	824.8	762.7	62.16	13.270
13,200.0	10,700.0	13,289.6	10,743.6	38.6	24.9	-93.24	-2,703.8	-527.2	824.6	761.4	63.27	13.034
13,205.0	10,700.0	13,296.3	10,743.4	38.7	24.9	-93.22	-2,710.4	-527.2	824.6	761.2	63.34	13.019
13,293.5	10,700.0	13,369.8	10,740.7	39.0	25.4	-93.04	-2,783.9	-527.5	823.5	759.4	64.16	12.835
13,300.0	10,700.0	13,374.9	10,740.6	39.0	25.5	-93.04	-2,789.0	-527.4	823.5	759.3	64.22	12.824
13,395.0	10,700.0	13,466.3	10,740.2	39.4	26.1	-93.01	-2,880.4	-526.2	824.2	758.9	65.25	12.631
13,400.0	10,700.0	13,471.5	10,740.3	39.5	26.1	-93.01	-2,885.5	-526.2	824.2	758.9	65.31	12.620
13,490.0	10,700.0	13,557.2	10,742.5	39.8	26.7	-93.16	-2,971.3	-525.1	824.9	758.6	66.29	12.444
13,500.0	10,700.0	13,566.6	10,742.8	39.9	26.8	-93.19	-2,980.6	-524.9	825.0	758.6	66.39	12.426
13,585.0	10,700.0	13,666.2	10,746.3	40.3	27.5	-93.42	-3,080.1	-524.0	825.4	757.8	67.54	12.220

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
13,600.0	10,700.0	13,686.4	10,746.7	40.3	27.6	-93.46	-3,100.4	-524.1	825.2	757.5	67.78	12.176
13,680.0	10,700.0	13,782.3	10,747.2	40.7	28.3	-93.50	-3,196.2	-526.1	823.1	754.2	68.88	11.948
13,700.0	10,700.0	13,799.9	10,747.7	40.8	28.4	-93.53	-3,213.8	-526.5	822.5	753.4	69.10	11.903
13,775.0	10,700.0	13,866.4	10,752.1	41.1	28.9	-93.85	-3,280.2	-527.9	820.7	750.8	69.93	11.737
13,800.0	10,700.0	13,889.4	10,753.7	41.2	29.0	-93.96	-3,303.0	-528.2	820.3	750.1	70.21	11.683
13,870.0	10,700.0	13,958.3	10,757.1	41.6	29.5	-94.21	-3,371.9	-528.9	819.4	748.4	71.05	11.533
13,900.0	10,700.0	13,994.4	10,758.0	41.7	29.8	-94.27	-3,408.0	-529.4	818.9	747.4	71.47	11.458
13,965.0	10,700.0	14,068.4	10,758.2	42.0	30.3	-94.30	-3,482.0	-531.0	817.1	744.7	72.33	11.296
14,000.0	10,700.0	14,106.3	10,758.1	42.2	30.5	-94.30	-3,519.9	-532.1	815.8	743.1	72.77	11.212
14,060.0	10,700.0	14,163.4	10,758.0	42.5	30.9	-94.30	-3,576.9	-533.7	813.7	740.3	73.45	11.078
14,100.0	10,700.0	14,199.9	10,758.2	42.7	31.2	-94.32	-3,613.4	-534.6	812.5	738.6	73.89	10.995
14,155.0	10,700.0	14,242.5	10,758.5	42.9	31.5	-94.35	-3,656.0	-535.3	811.3	736.9	74.44	10.899
14,195.5	10,700.0	14,272.3	10,758.6	43.1	31.7	-94.36	-3,685.8	-535.3	811.0	736.2	74.81	10.841
14,200.0	10,700.0	14,275.6	10,758.7	43.1	31.7	-94.36	-3,689.1	-535.3	811.0	736.2	74.85	10.835
14,250.0	10,700.0	14,317.1	10,758.6	43.4	32.0	-94.35	-3,730.6	-534.7	811.5	736.1	75.37	10.767
14,300.0	10,700.0	14,368.7	10,757.8	43.6	32.4	-94.29	-3,782.2	-533.7	812.0	736.0	76.00	10.684
14,345.0	10,700.0	14,414.4	10,756.5	43.9	32.8	-94.20	-3,827.9	-532.9	812.4	735.9	76.56	10.612
14,400.0	10,700.0	14,469.3	10,754.9	44.2	33.1	-94.08	-3,882.8	-531.9	812.9	735.7	77.21	10.529
14,440.0	10,700.0	14,518.0	10,753.4	44.4	33.5	-93.98	-3,931.4	-531.2	813.2	735.4	77.80	10.452
14,500.0	10,700.0	14,587.8	10,750.8	44.7	34.0	-93.80	-4,001.1	-531.3	812.5	733.8	78.64	10.331
14,535.0	10,700.0	14,616.1	10,750.0	44.9	34.2	-93.74	-4,029.4	-531.3	812.2	733.2	79.00	10.280
14,555.7	10,700.0	14,632.8	10,749.6	45.0	34.3	-93.71	-4,046.2	-531.3	812.1	732.9	79.21	10.252
14,600.0	10,700.0	14,670.9	10,749.0	45.2	34.6	-93.67	-4,084.2	-530.8	812.3	732.6	79.69	10.193
14,630.0	10,700.0	14,705.1	10,748.5	45.4	34.9	-93.64	-4,118.4	-530.4	812.5	732.4	80.12	10.141
14,700.0	10,700.0	14,782.0	10,746.9	45.7	35.4	-93.52	-4,195.3	-530.0	812.3	731.2	81.07	10.020
14,725.0	10,700.0	14,807.8	10,746.1	45.9	35.6	-93.47	-4,221.1	-529.9	812.1	730.7	81.39	9.979
14,800.0	10,700.0	14,884.0	10,743.6	46.3	36.1	-93.29	-4,297.2	-529.9	811.5	729.2	82.32	9.858
14,820.0	10,700.0	14,904.0	10,742.9	46.4	36.3	-93.24	-4,317.2	-529.9	811.3	728.8	82.57	9.826
14,890.5	10,700.0	14,967.7	10,740.4	46.8	36.7	-93.07	-4,380.9	-529.8	810.9	727.5	83.36	9.727
14,900.0	10,700.0	14,975.5	10,740.2	46.8	36.8	-93.05	-4,388.7	-529.7	810.9	727.4	83.46	9.716
14,915.0	10,700.0	14,987.9	10,739.8	46.9	36.9	-93.03	-4,401.1	-529.6	811.0	727.3	83.62	9.699
15,000.0	10,700.0	15,070.7	10,738.4	47.4	37.5	-92.92	-4,483.8	-528.1	811.9	727.2	84.66	9.589
15,010.0	10,700.0	15,082.0	10,738.2	47.4	37.6	-92.91	-4,495.2	-527.9	811.9	727.1	84.81	9.574
15,100.0	10,700.0	15,171.6	10,736.7	47.9	38.2	-92.80	-4,584.7	-526.9	812.3	726.3	85.95	9.451
15,105.0	10,700.0	15,176.2	10,736.6	47.9	38.2	-92.79	-4,589.4	-526.8	812.3	726.3	86.01	9.445
15,200.0	10,700.0	15,270.6	10,735.1	48.5	38.9	-92.69	-4,683.7	-525.3	813.2	726.0	87.21	9.324
15,295.0	10,700.0	15,360.2	10,733.5	49.0	39.6	-92.57	-4,773.3	-523.7	814.1	725.8	88.36	9.214
15,300.0	10,700.0	15,364.8	10,733.4	49.0	39.6	-92.57	-4,777.9	-523.6	814.2	725.8	88.42	9.209
15,390.0	10,700.0	15,438.8	10,732.6	49.6	40.2	-92.50	-4,851.8	-521.4	816.3	727.0	89.36	9.136
15,400.0	10,700.0	15,446.7	10,732.7	49.6	40.2	-92.50	-4,859.7	-521.0	816.7	727.2	89.46	9.129
15,485.0	10,700.0	15,517.9	10,734.3	50.1	40.7	-92.61	-4,930.8	-517.3	820.7	730.3	90.37	9.081
15,500.0	10,700.0	15,531.1	10,734.7	50.2	40.8	-92.63	-4,944.0	-516.5	821.5	731.0	90.54	9.073
15,580.0	10,700.0	15,602.3	10,737.1	50.7	41.4	-92.79	-5,014.9	-511.7	826.5	735.0	91.47	9.036
15,600.0	10,700.0	15,620.3	10,737.8	50.8	41.5	-92.83	-5,032.9	-510.4	827.8	736.1	91.70	9.028
15,675.0	10,700.0	15,706.9	10,740.9	51.2	42.1	-93.02	-5,119.2	-504.1	833.0	740.1	92.92	8.965
15,700.0	10,700.0	15,744.5	10,741.4	51.4	42.4	-93.05	-5,156.8	-502.1	834.2	740.7	93.46	8.925
15,770.0	10,700.0	15,817.7	10,741.7	51.8	43.0	-93.06	-5,229.9	-498.9	836.8	742.3	94.46	8.859
15,800.0	10,700.0	15,849.0	10,741.8	52.0	43.2	-93.07	-5,261.2	-497.6	837.9	743.0	94.88	8.831
15,865.0	10,700.0	15,919.8	10,741.4	52.3	43.7	-93.03	-5,332.0	-494.9	839.9	744.1	95.83	8.764
15,900.0	10,700.0	15,957.9	10,740.9	52.5	44.0	-92.99	-5,370.0	-493.7	840.8	744.5	96.33	8.728
15,960.0	10,700.0	16,023.0	10,739.6	52.9	44.5	-92.90	-5,435.1	-491.8	842.0	744.8	97.20	8.663

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
16,000.0	10,700.0	16,060.6	10,738.8	53.1	44.8	-92.84	-5,472.6	-490.8	842.8	745.1	97.70	8.627
16,055.0	10,700.0	16,112.6	10,737.8	53.5	45.1	-92.77	-5,524.6	-489.3	844.1	745.7	98.38	8.579
16,100.0	10,700.0	16,163.3	10,737.4	53.8	45.5	-92.74	-5,575.2	-487.8	845.0	745.9	99.07	8.530
16,150.0	10,700.0	16,220.8	10,738.0	54.1	45.9	-92.78	-5,632.7	-486.7	845.7	745.8	99.85	8.470
16,200.0	10,700.0	16,281.2	10,738.8	54.4	46.4	-92.83	-5,693.1	-486.2	845.8	745.1	100.66	8.403
16,245.0	10,700.0	16,327.6	10,739.3	54.6	46.7	-92.87	-5,739.6	-486.2	845.6	744.3	101.29	8.348
16,300.0	10,700.0	16,381.4	10,740.4	55.0	47.1	-92.94	-5,793.3	-486.1	845.3	743.3	102.03	8.285
16,340.0	10,700.0	16,420.5	10,741.3	55.2	47.4	-93.01	-5,832.5	-486.1	845.2	742.6	102.57	8.240
16,400.0	10,700.0	16,479.0	10,742.7	55.6	47.8	-93.10	-5,890.9	-485.9	845.0	741.7	103.37	8.175
16,411.1	10,700.0	16,489.3	10,742.9	55.7	47.9	-93.11	-5,901.2	-485.8	845.0	741.5	103.51	8.164
16,435.0	10,700.0	16,511.3	10,743.5	55.8	48.1	-93.15	-5,923.2	-485.7	845.1	741.2	103.81	8.140
16,500.0	10,700.0	16,575.4	10,745.6	56.2	48.6	-93.30	-5,987.3	-485.1	845.4	740.7	104.70	8.074
16,530.0	10,700.0	16,621.0	10,746.8	56.4	48.9	-93.38	-6,032.8	-485.1	845.2	739.9	105.31	8.026
16,600.0	10,700.0	16,697.3	10,747.8	56.8	49.5	-93.45	-6,109.1	-486.5	843.5	737.1	106.36	7.931
16,625.0	10,700.0	16,719.3	10,748.0	57.0	49.6	-93.47	-6,131.1	-486.9	843.0	736.3	106.67	7.902
16,700.0	10,700.0	16,789.2	10,748.9	57.5	50.2	-93.54	-6,201.0	-487.5	841.8	734.2	107.65	7.820
16,720.0	10,700.0	16,808.6	10,749.3	57.6	50.3	-93.56	-6,220.5	-487.7	841.6	733.7	107.92	7.798
16,800.0	10,700.0	16,892.8	10,751.0	58.1	50.9	-93.68	-6,304.6	-488.4	840.5	731.4	109.07	7.706
16,815.0	10,700.0	16,909.3	10,751.2	58.2	51.0	-93.70	-6,321.1	-488.6	840.2	730.9	109.30	7.688
16,900.0	10,700.0	16,997.5	10,751.4	58.7	51.7	-93.72	-6,409.2	-489.9	838.4	727.9	110.50	7.587
16,910.0	10,700.0	17,007.7	10,751.2	58.8	51.8	-93.71	-6,419.5	-490.1	838.2	727.5	110.64	7.576
17,000.0	10,700.0	17,115.6	10,748.9	59.4	52.6	-93.56	-6,527.3	-492.8	835.2	723.2	112.04	7.455
17,005.0	10,700.0	17,120.4	10,748.7	59.4	52.6	-93.56	-6,532.1	-492.9	835.0	722.9	112.11	7.448
17,100.0	10,700.0	17,219.1	10,745.7	60.0	53.3	-93.37	-6,630.7	-496.9	830.4	716.9	113.43	7.320
17,195.0	10,700.0	17,301.3	10,744.3	60.6	53.9	-93.28	-6,712.8	-499.7	826.5	711.9	114.63	7.210
17,200.0	10,700.0	17,305.9	10,744.2	60.7	54.0	-93.28	-6,717.4	-499.8	826.3	711.6	114.70	7.205
17,290.0	10,700.0	17,390.2	10,743.3	61.2	54.6	-93.22	-6,801.7	-501.6	823.8	707.9	115.88	7.108
17,300.0	10,700.0	17,401.3	10,743.1	61.3	54.7	-93.21	-6,812.7	-501.8	823.5	707.5	116.03	7.097
17,385.0	10,700.0	17,490.4	10,740.8	61.9	55.3	-93.06	-6,901.8	-504.0	820.8	703.5	117.24	7.001
17,400.0	10,700.0	17,503.6	10,740.5	62.0	55.4	-93.04	-6,915.0	-504.3	820.3	702.9	117.43	6.985
17,480.0	10,700.0	17,577.4	10,739.2	62.5	56.0	-92.95	-6,988.8	-505.6	818.3	699.8	118.48	6.907
17,500.0	10,700.0	17,599.0	10,738.8	62.6	56.1	-92.93	-7,010.4	-505.9	817.8	699.1	118.77	6.886
17,575.0	10,700.0	17,673.9	10,737.4	63.1	56.7	-92.84	-7,085.2	-507.4	815.8	696.0	119.81	6.809
17,600.0	10,700.0	17,695.0	10,736.9	63.3	56.8	-92.81	-7,106.3	-507.7	815.2	695.1	120.11	6.787
17,670.0	10,700.0	17,753.4	10,735.8	63.7	57.3	-92.73	-7,164.8	-508.0	814.3	693.4	120.96	6.732
17,691.7	10,700.0	17,770.6	10,735.6	63.9	57.4	-92.72	-7,181.9	-508.0	814.3	693.1	121.20	6.718
17,700.0	10,700.0	17,777.2	10,735.5	63.9	57.5	-92.71	-7,188.5	-507.9	814.3	693.0	121.30	6.713
17,765.0	10,700.0	17,832.0	10,735.3	64.3	57.9	-92.69	-7,243.3	-506.9	815.0	692.9	122.07	6.676
17,800.0	10,700.0	17,856.3	10,735.4	64.6	58.1	-92.70	-7,267.6	-506.2	815.8	693.4	122.40	6.665
17,860.0	10,700.0	17,903.8	10,736.3	65.0	58.4	-92.76	-7,315.1	-504.3	817.9	694.8	123.04	6.647
17,900.0	10,700.0	17,937.0	10,737.4	65.2	58.7	-92.82	-7,348.2	-502.5	819.8	696.3	123.49	6.639
17,955.0	10,700.0	17,986.0	10,739.3	65.6	59.1	-92.95	-7,397.1	-499.6	822.8	698.7	124.16	6.627
18,000.0	10,700.0	18,029.4	10,741.4	65.9	59.4	-93.09	-7,440.4	-496.8	825.6	700.8	124.78	6.616
18,050.0	10,700.0	18,085.6	10,744.4	66.2	59.8	-93.28	-7,496.3	-493.4	828.4	702.8	125.63	6.594
18,100.0	10,700.0	18,162.1	10,748.1	66.6	60.4	-93.53	-7,572.7	-490.1	830.4	703.6	126.84	6.547
18,145.0	10,700.0	18,215.8	10,749.7	66.9	60.8	-93.63	-7,626.4	-489.3	830.9	703.2	127.63	6.510
18,200.0	10,700.0	18,261.2	10,751.1	67.2	61.2	-93.73	-7,671.7	-488.3	831.8	703.5	128.29	6.484
18,240.0	10,700.0	18,295.5	10,752.4	67.5	61.4	-93.81	-7,706.0	-487.3	832.8	704.0	128.78	6.467
18,300.0	10,700.0	18,352.2	10,754.0	67.9	61.9	-93.92	-7,762.6	-485.3	834.7	705.1	129.58	6.441
18,335.0	10,700.0	18,385.6	10,754.7	68.1	62.1	-93.96	-7,796.0	-484.0	835.9	705.8	130.06	6.427
18,400.0	10,700.0	18,449.1	10,754.4	68.6	62.6	-93.93	-7,859.4	-481.3	838.2	707.2	130.95	6.401

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
18,430.0	10,700.0	18,478.7	10,753.6	68.8	62.8	-93.87	-7,889.0	-479.9	839.3	707.9	131.37	6.389	
18,500.0	10,700.0	18,548.8	10,751.2	69.3	63.3	-93.70	-7,959.0	-476.7	841.9	709.5	132.35	6.361	
18,525.0	10,700.0	18,576.7	10,750.2	69.4	63.6	-93.62	-7,986.9	-475.5	842.8	710.0	132.76	6.348	
18,600.0	10,700.0	18,662.0	10,747.0	69.9	64.2	-93.40	-8,072.0	-472.5	844.7	710.8	133.98	6.305	
18,620.0	10,700.0	18,682.5	10,746.2	70.1	64.3	-93.34	-8,092.5	-471.9	845.2	710.9	134.27	6.294	
18,700.0	10,700.0	18,762.9	10,743.3	70.6	64.9	-93.14	-8,172.8	-469.6	846.7	711.3	135.40	6.253	
18,715.0	10,700.0	18,777.2	10,742.8	70.7	65.1	-93.10	-8,187.1	-469.2	847.1	711.4	135.60	6.247	
18,800.0	10,700.0	18,864.4	10,739.7	71.3	65.7	-92.89	-8,274.2	-466.5	848.9	712.1	136.84	6.204	
18,810.0	10,700.0	18,875.8	10,739.3	71.4	65.8	-92.86	-8,285.6	-466.2	849.1	712.1	137.00	6.198	
18,900.0	10,700.0	18,967.0	10,735.6	72.0	66.5	-92.60	-8,376.7	-464.2	850.3	712.0	138.29	6.149	
18,905.0	10,700.0	18,971.6	10,735.5	72.0	66.5	-92.59	-8,381.3	-464.1	850.4	712.0	138.35	6.147	
19,000.0	10,700.0	19,049.8	10,734.2	72.6	67.1	-92.50	-8,459.4	-461.7	852.6	713.2	139.43	6.115	
19,095.0	10,700.0	19,151.2	10,737.5	73.3	67.9	-92.71	-8,560.7	-456.8	856.9	715.9	140.96	6.079	
19,100.0	10,700.0	19,160.3	10,737.6	73.3	68.0	-92.72	-8,569.7	-456.5	857.0	715.9	141.10	6.074	
19,190.0	10,700.0	19,275.3	10,735.8	74.0	68.8	-92.59	-8,684.7	-455.1	857.4	714.6	142.77	6.005	
19,200.0	10,700.0	19,288.9	10,735.6	74.0	69.0	-92.58	-8,698.4	-455.1	857.3	714.3	142.96	5.997	
19,285.0	10,700.0	19,400.8	10,732.8	74.6	69.8	-92.40	-8,810.1	-457.6	854.6	710.2	144.43	5.917	
19,300.0	10,700.0	19,415.7	10,732.4	74.7	69.9	-92.38	-8,825.0	-458.1	854.0	709.4	144.65	5.904	
19,380.0	10,700.0	19,501.6	10,730.0	75.3	70.6	-92.23	-8,910.9	-461.1	850.6	704.8	145.83	5.833	
19,400.0	10,700.0	19,525.2	10,729.2	75.4	70.7	-92.18	-8,934.4	-462.1	849.6	703.5	146.13	5.814	
19,475.0	10,700.0	19,603.8	10,726.0	75.9	71.3	-91.97	-9,012.9	-465.9	845.4	698.2	147.21	5.743	
19,500.0	10,700.0	19,628.6	10,724.9	76.1	71.5	-91.89	-9,037.6	-467.1	844.0	696.4	147.56	5.720	
19,570.0	10,700.0	19,700.2	10,721.1	76.6	72.0	-91.65	-9,109.0	-470.6	840.0	691.4	148.55	5.655	
19,600.0	10,700.0	19,731.1	10,719.4	76.8	72.3	-91.54	-9,139.8	-472.1	838.2	689.3	148.98	5.627	
19,665.0	10,700.0	19,794.2	10,716.4	77.2	72.7	-91.33	-9,202.8	-475.3	834.4	684.6	149.89	5.567	
19,700.0	10,700.0	19,829.1	10,715.1	77.5	73.0	-91.25	-9,237.6	-477.1	832.5	682.1	150.38	5.536	
19,760.0	10,700.0	19,897.8	10,713.1	77.9	73.5	-91.12	-9,306.1	-480.9	828.7	677.4	151.27	5.478	
19,800.0	10,700.0	19,940.2	10,712.1	78.2	73.8	-91.05	-9,348.5	-483.5	825.9	674.1	151.84	5.439	
19,855.0	10,700.0	19,996.0	10,711.4	78.6	74.2	-91.00	-9,404.2	-487.1	822.0	669.4	152.63	5.385	
19,900.0	10,700.0	20,037.4	10,711.2	78.9	74.5	-91.00	-9,445.5	-489.8	818.8	665.6	153.27	5.342	
19,950.0	10,700.0	20,082.4	10,711.1	79.2	74.9	-90.99	-9,490.4	-492.4	815.6	661.6	153.97	5.297	
20,000.0	10,700.0	20,129.0	10,711.1	79.6	75.2	-90.99	-9,537.0	-494.8	812.7	658.0	154.68	5.254	
20,045.0	10,700.0	20,171.6	10,710.9	79.9	75.5	-90.98	-9,579.5	-496.9	810.1	654.8	155.32	5.216	
20,100.0	10,700.0	20,224.1	10,710.7	80.3	75.9	-90.98	-9,631.9	-499.4	807.2	651.1	156.10	5.171	
20,140.0	10,700.0	20,262.3	10,711.0	80.5	76.2	-91.00	-9,670.1	-501.1	805.2	648.5	156.67	5.139	
20,200.0	10,700.0	20,317.4	10,712.0	81.0	76.6	-91.07	-9,725.2	-503.3	802.4	644.9	157.52	5.094	
20,235.0	10,700.0	20,349.2	10,713.0	81.2	76.8	-91.14	-9,756.9	-504.4	800.9	642.9	158.01	5.069	
20,300.0	10,700.0	20,410.0	10,715.8	81.7	77.3	-91.35	-9,817.6	-506.3	798.6	639.6	158.93	5.025	
20,330.0	10,700.0	20,438.4	10,717.5	81.9	77.5	-91.47	-9,845.9	-507.1	797.6	638.2	159.36	5.005	
20,400.0	10,700.0	20,498.7	10,721.5	82.4	78.0	-91.76	-9,906.1	-508.5	795.7	635.4	160.31	4.963	
20,425.0	10,700.0	20,519.5	10,722.8	82.5	78.1	-91.86	-9,926.8	-508.7	795.2	634.6	160.64	4.951	
20,500.0	10,700.0	20,588.1	10,727.4	83.1	78.6	-92.19	-9,995.3	-509.0	794.6	632.9	161.67	4.915	
20,520.0	10,700.0	20,607.7	10,728.8	83.2	78.8	-92.29	-10,014.9	-509.1	794.5	632.5	161.97	4.905	
20,601.5	10,700.0	20,690.4	10,734.7	83.8	79.4	-92.72	-10,097.4	-509.3	794.0	630.8	163.20	4.865	
20,615.0	10,700.0	20,704.5	10,735.7	83.9	79.5	-92.79	-10,111.4	-509.3	793.9	630.5	163.41	4.858	
20,685.4	10,700.0	20,769.0	10,740.0	84.4	80.0	-93.11	-10,175.7	-509.6	793.4	629.0	164.38	4.827	
20,700.0	10,700.0	20,769.0	10,740.0	84.5	80.0	-93.11	-10,175.7	-509.6	793.5	629.2	164.36	4.828	
20,710.0	10,700.0	20,769.0	10,740.0	84.5	80.0	-93.11	-10,175.7	-509.6	793.8	629.5	164.32	4.831	
20,731.5	10,700.0	20,769.0	10,740.0	84.7	80.0	-93.11	-10,175.7	-509.6	794.7	630.6	164.15	4.841	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.51	-0.5	-60.0	60.1				
95.0	95.0	91.6	91.6	3.0	3.0	-90.29	-0.3	-60.3	60.3	54.3	6.00	10.050	
100.0	100.0	96.6	96.6	3.0	3.0	-90.27	-0.3	-60.3	60.3	54.3	6.00	10.056	
190.0	190.0	186.9	186.9	3.0	3.0	-89.82	0.2	-60.7	60.7	54.7	6.00	10.104	
200.0	200.0	196.9	196.9	3.0	3.0	-89.72	0.3	-60.7	60.7	54.7	6.00	10.105	
285.0	285.0	281.8	281.8	3.0	3.0	-88.78	1.3	-61.1	61.1	55.1	6.01	10.162	
300.0	300.0	296.8	296.8	3.0	3.0	-88.63	1.5	-61.1	61.1	55.1	6.01	10.169	
380.0	380.0	376.9	376.8	3.0	3.0	-87.57	2.6	-61.4	61.5	55.4	6.02	10.210	
400.0	400.0	396.7	396.7	3.0	3.0	-87.32	2.9	-61.5	61.5	55.5	6.02	10.218	
475.0	475.0	471.7	471.7	3.0	3.0	-86.59	3.7	-61.9	62.0	56.0	6.03	10.272	
500.0	500.0	496.9	496.9	3.1	3.1	-86.39	3.9	-61.9	62.1	56.0	6.04	10.279	
570.0	570.0	566.8	566.7	3.1	3.1	-85.98	4.4	-62.1	62.3	56.2	6.05	10.288	
600.0	600.0	596.6	596.6	3.1	3.1	-85.84	4.5	-62.3	62.4	56.4	6.06	10.303	
665.0	665.0	661.6	661.5	3.1	3.1	-85.50	4.9	-62.7	62.9	56.8	6.08	10.353	
665.8	665.8	662.4	662.3	3.1	3.1	-85.50	4.9	-62.7	62.9	56.8	6.08	10.354	
700.0	700.0	682.0	682.0	3.1	3.1	-85.41	5.0	-62.9	64.8	58.9	5.93	10.933	
760.0	760.0	682.0	682.0	3.1	3.1	-85.41	5.0	-62.9	98.0	93.9	4.11	23.836	
800.0	800.0	682.0	682.0	3.2	3.1	-85.41	5.0	-62.9	131.2	127.9	3.28	40.028	
855.0	855.0	682.0	682.0	3.2	3.1	-85.41	5.0	-62.9	181.4	178.7	2.68	67.768	
900.0	900.0	682.0	682.0	3.2	3.1	-85.41	5.0	-62.9	224.1	221.7	2.43	92.172	
950.0	950.0	682.0	682.0	3.2	3.1	-85.41	5.0	-62.9	272.4	270.1	2.29	118.981	
1,000.0	1,000.0	682.0	682.0	3.2	3.1	-85.41	5.0	-62.9	321.3	319.1	2.22	144.502	
1,045.0	1,045.0	682.0	682.0	3.3	3.1	-85.41	5.0	-62.9	365.5	363.3	2.20	166.068	
1,100.0	1,100.0	682.0	682.0	3.3	3.1	-85.41	5.0	-62.9	419.8	417.6	2.20	190.617	
1,140.0	1,140.0	682.0	682.0	3.3	3.1	-85.41	5.0	-62.9	459.4	457.2	2.22	207.272	
1,200.0	1,200.0	682.0	682.0	3.4	3.1	-85.41	5.0	-62.9	518.9	516.6	2.25	230.571	
1,235.0	1,235.0	682.0	682.0	3.4	3.1	-85.41	5.0	-62.9	553.6	551.4	2.28	243.290	
1,300.0	1,300.0	682.0	682.0	3.4	3.1	-85.41	5.0	-62.9	618.3	615.9	2.33	265.435	
1,330.0	1,330.0	682.0	682.0	3.4	3.1	-85.41	5.0	-62.9	648.1	645.8	2.36	275.041	
1,400.0	1,400.0	682.0	682.0	3.5	3.1	-85.41	5.0	-62.9	717.8	715.4	2.42	296.162	
1,425.0	1,425.0	682.0	682.0	3.5	3.1	-85.41	5.0	-62.9	742.7	740.3	2.45	303.276	
1,500.0	1,500.0	682.0	682.0	3.5	3.1	-85.41	5.0	-62.9	817.5	814.9	2.53	323.472	
1,520.0	1,520.0	682.0	682.0	3.6	3.1	-85.41	5.0	-62.9	837.4	834.9	2.55	328.566	
1,600.0	1,600.0	682.0	682.0	3.6	3.1	-85.41	5.0	-62.9	917.2	914.6	2.64	347.912	
1,615.0	1,615.0	682.0	682.0	3.6	3.1	-85.41	5.0	-62.9	932.2	929.5	2.65	351.349	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured	Reference	Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning	
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		
0.0	0.0	0.0	0.0	3.0	3.0	89.48	0.3	30.0	30.0					
95.0	95.0	95.0	95.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.00	5.000		
100.0	100.0	100.0	100.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.00	5.000		
190.0	190.0	190.0	190.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.00	4.998		
200.0	200.0	200.0	200.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.00	4.998		
285.0	285.0	285.0	285.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.01	4.994		
300.0	300.0	300.0	300.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.01	4.993		
380.0	380.0	380.0	380.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.02	4.987		
400.0	400.0	400.0	400.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.02	4.985		
475.0	475.0	475.0	475.0	3.0	3.0	89.48	0.3	30.0	30.0	24.0	6.03	4.978		
500.0	500.0	500.0	500.0	3.1	3.1	89.48	0.3	30.0	30.0	24.0	6.03	4.975		
570.0	570.0	570.0	570.0	3.1	3.1	89.48	0.3	30.0	30.0	24.0	6.04	4.966		
600.0	600.0	600.0	600.0	3.1	3.1	89.48	0.3	30.0	30.0	24.0	6.05	4.962		
665.0	665.0	665.0	665.0	3.1	3.1	89.48	0.3	30.0	30.0	23.9	6.06	4.952		
700.0	700.0	700.0	700.0	3.1	3.1	89.48	0.3	30.0	30.0	23.9	6.06	4.947		
760.0	760.0	760.0	760.0	3.1	3.1	89.48	0.3	30.0	30.0	23.9	6.08	4.936		
800.0	800.0	800.0	800.0	3.2	3.2	89.48	0.3	30.0	30.0	23.9	6.09	4.929		
855.0	855.0	855.0	855.0	3.2	3.2	89.48	0.3	30.0	30.0	23.9	6.10	4.918		
900.0	900.0	900.0	900.0	3.2	3.2	89.48	0.3	30.0	30.0	23.9	6.11	4.909		
950.0	950.0	950.0	950.0	3.2	3.2	89.48	0.3	30.0	30.0	23.9	6.13	4.898		
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	89.48	0.3	30.0	30.0	23.9	6.14	4.886		
1,045.0	1,045.0	1,045.0	1,045.0	3.3	3.3	89.48	0.3	30.0	30.0	23.8	6.15	4.875		
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	89.48	0.3	30.0	30.0	23.8	6.17	4.861		
1,140.0	1,140.0	1,140.0	1,140.0	3.3	3.3	89.48	0.3	30.0	30.0	23.8	6.18	4.851		
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	89.48	0.3	30.0	30.0	23.8	6.21	4.835		
1,235.0	1,235.0	1,235.0	1,235.0	3.4	3.4	89.48	0.3	30.0	30.0	23.8	6.22	4.825		
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	89.48	0.3	30.0	30.0	23.8	6.24	4.806		
1,330.0	1,330.0	1,330.0	1,330.0	3.4	3.4	89.48	0.3	30.0	30.0	23.7	6.25	4.797		
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	89.48	0.3	30.0	30.0	23.7	6.28	4.775		
1,425.0	1,425.0	1,425.0	1,425.0	3.5	3.5	89.48	0.3	30.0	30.0	23.7	6.29	4.767		
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	89.48	0.3	30.0	30.0	23.7	6.33	4.743		
1,520.0	1,520.0	1,520.0	1,520.0	3.6	3.6	89.48	0.3	30.0	30.0	23.7	6.33	4.736		
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	89.48	0.3	30.0	30.0	23.6	6.37	4.709		
1,615.0	1,615.0	1,615.0	1,615.0	3.6	3.6	89.48	0.3	30.0	30.0	23.6	6.38	4.704		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	89.48	0.3	30.0	30.0	23.6	6.42	4.674		
1,710.0	1,710.0	1,710.0	1,710.0	3.7	3.7	89.48	0.3	30.0	30.0	23.6	6.42	4.670		
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	89.48	0.3	30.0	30.0	23.5	6.47	4.637		
1,805.0	1,805.0	1,805.0	1,805.0	3.8	3.8	89.48	0.3	30.0	30.0	23.5	6.47	4.635		
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	89.48	0.3	30.0	30.0	23.5	6.52	4.599		
1,995.0	1,995.0	1,995.0	1,995.0	3.9	3.9	89.48	0.3	30.0	30.0	23.4	6.58	4.562		
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	89.48	0.3	30.0	30.0	23.4	6.58	4.560		
2,090.0	2,090.0	2,090.2	2,090.2	4.1	4.1	104.48	1.6	29.6	30.0	23.4	6.61	4.536		
2,100.0	2,100.0	2,100.3	2,100.2	4.2	4.2	104.48	2.0	29.5	30.0	23.4	6.62	4.533		
2,185.0	2,184.9	2,185.5	2,185.4	4.7	4.7	104.46	6.1	28.4	30.0	23.3	6.68	4.488		
2,200.0	2,199.8	2,200.5	2,200.4	4.8	4.8	104.45	7.0	28.2	30.0	23.3	6.70	4.480		
2,250.0	2,249.7	2,250.7	2,250.3	4.9	4.9	104.43	10.9	27.2	30.0	23.2	6.76	4.435		
2,267.7	2,267.3	2,268.3	2,267.9	5.0	5.0	104.43	12.3	26.8	30.0	23.2	6.79	4.416		
2,280.0	2,279.6	2,280.7	2,280.2	5.0	5.0	104.43	13.4	26.5	30.0	23.2	6.81	4.402		
2,297.4	2,296.9	2,298.1	2,297.6	5.0	5.0	104.43	14.8	26.1	30.0	23.1	6.84	4.382		
2,300.0	2,299.5	2,300.7	2,300.1	5.0	5.0	104.43	15.1	26.0	30.0	23.1	6.85	4.379		
2,366.3	2,365.6	2,367.0	2,366.2	5.1	5.1	104.43	20.6	24.5	30.0	23.0	7.01	4.276		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS						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		
2,375.0	2,374.2	2,375.7	2,374.9	5.1	5.1	104.43	21.4	24.3	30.0	23.0	7.04	4.263		
2,399.4	2,398.5	2,400.0	2,399.1	5.1	5.1	104.43	23.4	23.8	30.0	22.9	7.10	4.224		
2,400.0	2,399.1	2,400.7	2,399.8	5.1	5.1	104.43	23.5	23.8	30.0	22.9	7.10	4.223		
2,433.5	2,432.5	2,434.2	2,433.1	5.1	5.2	104.43	26.3	23.0	30.0	22.8	7.21	4.159		
2,470.0	2,468.8	2,470.7	2,469.5	5.2	5.2	104.43	29.4	22.2	30.0	22.7	7.34	4.089		
2,478.5	2,477.3	2,479.2	2,478.0	5.2	5.2	104.43	30.1	22.0	30.0	22.6	7.36	4.073		
2,500.0	2,498.7	2,500.7	2,499.4	5.3	5.3	104.43	31.9	21.5	30.0	22.6	7.44	4.032		
2,535.0	2,533.6	2,535.7	2,534.3	5.3	5.3	104.43	34.8	20.7	30.0	22.4	7.56	3.970		
2,559.0	2,557.5	2,559.9	2,558.4	5.3	5.3	109.85	36.8	20.1	30.0	22.3	7.65	3.919 CC		
2,565.0	2,563.5	2,565.9	2,564.4	5.3	5.3	111.23	37.3	19.9	30.0	22.3	7.68	3.906		
2,600.0	2,598.4	2,601.2	2,599.6	5.4	5.4	119.55	39.9	18.6	30.0	22.2	7.82	3.834		
2,660.0	2,658.1	2,661.8	2,659.9	5.6	5.6	133.85	43.9	15.6	30.0	21.8	8.20	3.664		
2,700.0	2,698.0	2,702.1	2,700.1	5.8	5.8	142.74	46.1	13.0	30.1	21.6	8.45	3.558		
2,755.0	2,752.8	2,757.6	2,755.4	6.1	6.2	153.53	48.6	8.6	30.1	21.4	8.70	3.464		
2,800.0	2,797.5	2,803.0	2,800.5	6.4	6.4	161.00	50.2	4.4	30.2	21.3	8.91	3.393		
2,850.0	2,847.2	2,853.4	2,850.7	6.6	6.7	168.01	51.5	-1.0	30.3	21.2	9.16	3.312		
2,900.0	2,896.8	2,903.8	2,900.7	6.9	6.9	173.88	52.3	-7.1	30.5	21.0	9.44	3.230		
2,945.0	2,941.4	2,949.2	2,945.7	7.0	7.1	178.39	52.6	-13.2	30.6	20.7	9.92	3.087		
3,000.0	2,995.7	3,004.7	3,000.5	7.2	7.3	-176.87	52.4	-21.5	30.8	20.3	10.51	2.934		
3,040.0	3,035.2	3,045.0	3,040.3	7.4	7.4	-173.83	51.9	-28.0	31.0	20.0	11.01	2.816		
3,100.0	3,094.2	3,105.5	3,099.9	7.6	7.6	-169.77	50.5	-38.7	31.3	19.5	11.80	2.652		
3,135.0	3,128.5	3,140.8	3,134.5	7.6	7.6	-167.62	49.3	-45.4	31.5	19.4	12.06	2.610 ES		
3,156.0	3,149.1	3,161.9	3,155.1	7.7	7.7	-166.45	48.5	-49.5	31.7	19.4	12.21	2.592		
3,200.0	3,192.1	3,205.9	3,198.2	7.8	7.7	-165.93	46.9	-58.1	32.1	19.7	12.46	2.579		
3,230.0	3,221.4	3,235.9	3,227.6	7.8	7.8	-165.58	45.8	-64.0	32.5	19.8	12.63	2.569		
3,300.0	3,289.9	3,305.9	3,296.2	8.0	8.0	-164.80	43.2	-77.7	33.2	20.2	13.04	2.547		
3,325.0	3,314.4	3,330.9	3,320.7	8.0	8.0	-164.52	42.3	-82.6	33.5	20.3	13.20	2.537		
3,400.0	3,387.7	3,405.8	3,394.2	8.2	8.2	-163.73	39.5	-97.3	34.3	20.6	13.69	2.508		
3,420.0	3,407.3	3,425.8	3,413.8	8.3	8.3	-163.53	38.7	-101.2	34.5	20.7	13.82	2.500		
3,500.0	3,485.5	3,505.8	3,492.2	8.5	8.5	-162.74	35.8	-116.9	35.4	21.1	14.34	2.470		
3,515.0	3,500.2	3,520.8	3,506.9	8.5	8.5	-162.59	35.2	-119.9	35.6	21.2	14.44	2.464		
3,600.0	3,583.3	3,605.8	3,590.2	8.7	8.7	-161.80	32.1	-136.5	36.6	21.5	15.02	2.434		
3,610.0	3,593.1	3,615.8	3,600.0	8.8	8.7	-161.71	31.7	-138.5	36.7	21.6	15.08	2.431		
3,700.0	3,681.2	3,705.8	3,688.1	9.0	9.0	-160.93	28.4	-156.1	37.7	22.0	15.70	2.400		
3,705.0	3,686.0	3,710.8	3,693.0	9.0	9.0	-160.88	28.2	-157.1	37.7	22.0	15.73	2.399		
3,800.0	3,779.0	3,805.8	3,786.1	9.3	9.3	-160.10	24.7	-175.7	38.8	22.4	16.39	2.368		
3,895.0	3,871.9	3,900.8	3,879.2	9.6	9.5	-159.36	21.1	-194.3	39.9	22.9	17.06	2.340		
3,900.0	3,876.8	3,905.8	3,884.1	9.6	9.5	-159.32	21.0	-195.3	40.0	22.9	17.09	2.338		
3,990.0	3,964.8	3,995.8	3,972.3	9.8	9.8	-158.65	17.6	-212.9	41.0	23.3	17.73	2.313		
4,000.0	3,974.6	4,005.8	3,982.1	9.9	9.8	-158.58	17.2	-214.9	41.1	23.3	17.80	2.310		
4,085.0	4,057.7	4,090.8	4,065.4	10.1	10.1	-157.99	14.1	-231.5	42.1	23.7	18.41	2.287		
4,100.0	4,072.4	4,105.8	4,080.1	10.2	10.1	-157.89	13.5	-234.4	42.3	23.8	18.52	2.284		
4,180.0	4,150.7	4,185.8	4,158.5	10.4	10.4	-157.36	10.6	-250.1	43.2	24.1	19.09	2.264		
4,200.0	4,170.2	4,205.8	4,178.1	10.5	10.4	-157.23	9.8	-254.0	43.5	24.2	19.24	2.259		
4,275.0	4,243.6	4,280.8	4,251.6	10.7	10.7	-156.76	7.1	-268.7	44.3	24.5	19.78	2.241		
4,300.0	4,268.0	4,305.8	4,276.0	10.8	10.8	-156.61	6.1	-273.6	44.6	24.7	19.96	2.235		
4,370.0	4,336.5	4,375.8	4,344.6	11.0	11.0	-156.19	3.5	-287.3	45.4	25.0	20.47	2.220		
4,400.0	4,365.9	4,405.8	4,374.0	11.1	11.1	-156.01	2.4	-293.2	45.8	25.1	20.69	2.214		
4,465.0	4,429.4	4,470.8	4,437.7	11.3	11.3	-155.64	0.0	-305.9	46.6	25.4	21.17	2.200		
4,500.0	4,463.7	4,505.8	4,472.0	11.4	11.4	-155.45	-1.3	-312.8	47.0	25.6	21.42	2.193		
4,560.0	4,522.4	4,565.8	4,530.8	11.6	11.6	-155.13	-3.5	-324.6	47.7	25.8	21.86	2.181		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
4,600.0	4,561.5	4,605.7	4,570.0	11.8	11.7	-154.92	-5.0	-332.4	48.2	26.0	22.16	2.174		
4,655.0	4,615.3	4,660.7	4,623.9	11.9	11.9	-154.63	-7.0	-343.2	48.8	26.3	22.56	2.164		
4,700.0	4,659.3	4,705.7	4,668.0	12.1	12.1	-154.41	-8.7	-352.0	49.4	26.5	22.90	2.156		
4,750.0	4,708.2	4,755.7	4,717.0	12.3	12.2	-154.16	-10.6	-361.8	50.0	26.7	23.27	2.147		
4,800.0	4,757.1	4,805.7	4,766.0	12.4	12.4	-153.92	-12.4	-371.6	50.6	26.9	23.64	2.139		
4,845.0	4,801.1	4,850.7	4,810.1	12.6	12.5	-153.71	-14.1	-380.4	51.1	27.1	23.97	2.131		
4,900.0	4,854.9	4,905.7	4,864.0	12.8	12.7	-153.46	-16.1	-391.2	51.7	27.4	24.38	2.123		
4,940.0	4,894.1	4,945.7	4,903.1	12.9	12.9	-153.28	-17.6	-399.0	52.2	27.6	24.68	2.117		
5,000.0	4,952.8	5,005.7	4,961.9	13.1	13.1	-153.02	-19.8	-410.8	52.9	27.8	25.12	2.108		
5,035.0	4,987.0	5,040.7	4,996.2	13.2	13.2	-152.87	-21.1	-417.6	53.4	28.0	25.39	2.102		
5,100.0	5,050.6	5,105.7	5,059.9	13.5	13.4	-152.60	-23.5	-430.3	54.2	28.3	25.87	2.093		
5,130.0	5,079.9	5,135.7	5,089.3	13.6	13.5	-152.47	-24.6	-436.2	54.5	28.4	26.10	2.089		
5,200.0	5,148.4	5,205.7	5,157.9	13.8	13.8	-152.19	-27.2	-449.9	55.4	28.7	26.62	2.080		
5,225.0	5,172.8	5,230.7	5,182.4	13.9	13.9	-152.10	-28.2	-454.8	55.7	28.9	26.81	2.076		
5,300.0	5,246.2	5,305.7	5,255.9	14.2	14.1	-151.81	-30.9	-469.5	56.6	29.2	27.37	2.067		
5,320.0	5,265.8	5,325.7	5,275.5	14.2	14.2	-151.73	-31.7	-473.4	56.8	29.3	27.52	2.064		
5,400.0	5,344.0	5,405.7	5,353.9	14.5	14.5	-151.44	-34.6	-489.1	57.8	29.7	28.12	2.055		
5,415.0	5,358.7	5,420.7	5,368.6	14.6	14.5	-151.38	-35.2	-492.0	58.0	29.7	28.23	2.053		
5,500.0	5,441.8	5,505.7	5,451.9	14.9	14.8	-151.08	-38.3	-508.7	59.0	30.1	28.87	2.043		
5,510.0	5,451.6	5,515.7	5,461.7	14.9	14.9	-151.05	-38.7	-510.7	59.1	30.2	28.95	2.042		
5,600.0	5,539.6	5,605.7	5,549.8	15.2	15.2	-150.74	-42.1	-528.3	60.2	30.6	29.63	2.032		
5,605.0	5,544.5	5,610.7	5,554.7	15.2	15.2	-150.72	-42.2	-529.3	60.3	30.6	29.67	2.032		
5,700.0	5,637.5	5,705.7	5,647.8	15.6	15.5	-150.41	-45.8	-547.9	61.4	31.0	30.38	2.022		
5,795.0	5,730.4	5,800.7	5,740.9	15.9	15.9	-150.12	-49.3	-566.5	62.6	31.5	31.10	2.012		
5,800.0	5,735.3	5,805.7	5,745.8	15.9	15.9	-150.10	-49.5	-567.5	62.6	31.5	31.14	2.012		
5,890.0	5,823.3	5,895.6	5,834.0	16.3	16.2	-149.83	-52.8	-585.1	63.7	31.9	31.82	2.003		
5,900.0	5,833.1	5,905.6	5,843.8	16.3	16.2	-149.80	-53.2	-587.1	63.9	32.0	31.90	2.002		
5,985.0	5,916.2	5,990.6	5,927.1	16.6	16.5	-149.55	-56.3	-603.7	64.9	32.4	32.54	1.995 Advise and Monitor		
6,000.0	5,930.9	6,005.6	5,941.8	16.7	16.6	-149.51	-56.9	-606.6	65.1	32.4	32.65	1.993 Advise and Monitor		
6,080.0	6,009.2	6,085.6	6,020.2	17.0	16.9	-149.28	-59.8	-622.3	66.1	32.8	33.26	1.986 Advise and Monitor		
6,100.0	6,028.7	6,105.6	6,039.8	17.0	17.0	-149.23	-60.6	-626.2	66.3	32.9	33.41	1.985 Advise and Monitor		
6,175.0	6,102.1	6,180.6	6,113.3	17.3	17.2	-149.02	-63.4	-640.9	67.2	33.3	33.98	1.979 Advise and Monitor		
6,200.0	6,126.5	6,205.6	6,137.7	17.4	17.3	-148.96	-64.3	-645.8	67.5	33.4	34.17	1.977 Advise and Monitor		
6,270.0	6,195.0	6,275.6	6,206.3	17.6	17.6	-148.77	-66.9	-659.5	68.4	33.7	34.70	1.971 Advise and Monitor		
6,300.0	6,224.3	6,305.6	6,235.7	17.8	17.7	-148.70	-68.0	-665.4	68.8	33.8	34.93	1.969 Advise and Monitor		
6,365.0	6,287.9	6,370.6	6,299.4	18.0	17.9	-148.53	-70.4	-678.1	69.6	34.1	35.43	1.964 Advise and Monitor		
6,400.0	6,322.2	6,405.6	6,333.7	18.1	18.1	-148.44	-71.7	-685.0	70.0	34.3	35.69	1.961 Advise and Monitor		
6,460.0	6,380.8	6,465.6	6,392.5	18.3	18.3	-148.30	-73.9	-696.8	70.7	34.6	36.15	1.957 Advise and Monitor		
6,500.0	6,420.0	6,505.6	6,431.7	18.5	18.4	-148.20	-75.4	-704.6	71.2	34.8	36.46	1.954 Advise and Monitor		
6,555.0	6,473.8	6,560.6	6,485.6	18.7	18.6	-148.07	-77.5	-715.4	71.9	35.0	36.87	1.950 Advise and Monitor		
6,600.0	6,517.8	6,605.6	6,529.7	18.9	18.8	-147.97	-79.1	-724.2	72.5	35.2	37.22	1.947 Advise and Monitor		
6,650.0	6,566.7	6,655.6	6,578.7	19.0	19.0	-147.85	-81.0	-734.0	73.1	35.5	37.60	1.944 Advise and Monitor		
6,700.0	6,615.6	6,705.6	6,627.7	19.2	19.2	-147.74	-82.8	-743.8	73.7	35.7	37.98	1.940 Advise and Monitor		
6,745.0	6,659.6	6,750.6	6,671.8	19.4	19.3	-147.64	-84.5	-752.6	74.3	35.9	38.32	1.937 Advise and Monitor		
6,800.0	6,713.4	6,805.6	6,725.7	19.6	19.5	-147.52	-86.5	-763.4	74.9	36.2	38.74	1.934 Advise and Monitor		
6,840.0	6,752.5	6,845.6	6,764.8	19.7	19.7	-147.44	-88.0	-771.2	75.4	36.4	39.05	1.932 Advise and Monitor		
6,900.0	6,811.2	6,905.6	6,823.6	20.0	19.9	-147.31	-90.2	-782.9	76.2	36.7	39.51	1.928 Advise and Monitor		
6,935.0	6,845.5	6,940.6	6,857.9	20.1	20.0	-147.24	-91.5	-789.8	76.6	36.8	39.78	1.926 Advise and Monitor		
7,000.0	6,909.0	7,005.6	6,921.6	20.3	20.3	-147.10	-93.9	-802.5	77.4	37.1	40.27	1.922 Advise and Monitor		
7,030.0	6,938.4	7,035.6	6,951.0	20.5	20.4	-147.04	-95.1	-808.4	77.8	37.3	40.50	1.920 Advise and Monitor		
7,100.0	7,006.9	7,105.5	7,019.6	20.7	20.6	-146.91	-97.7	-822.1	78.6	37.6	41.04	1.916 Advise and Monitor		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
7,125.0	7,031.3	7,130.5	7,044.1	20.8	20.7	-146.86	-98.6	-827.0	78.9	37.7	41.23	1.915	Advise and Monitor
7,200.0	7,104.7	7,205.5	7,117.6	21.1	21.0	-146.71	-101.4	-841.7	79.9	38.1	41.80	1.911	Advise and Monitor
7,220.0	7,124.2	7,225.5	7,137.2	21.2	21.1	-146.68	-102.1	-845.6	80.1	38.2	41.96	1.910	Advise and Monitor
7,300.0	7,202.5	7,305.5	7,215.6	21.5	21.4	-146.53	-105.1	-861.3	81.1	38.5	42.57	1.906	Advise and Monitor
7,315.0	7,217.2	7,320.5	7,230.3	21.5	21.4	-146.50	-105.6	-864.2	81.3	38.6	42.68	1.905	Advise and Monitor
7,400.0	7,300.3	7,405.5	7,313.6	21.8	21.8	-146.35	-108.8	-880.9	82.4	39.0	43.33	1.900	Advise and Monitor
7,410.0	7,310.1	7,415.5	7,323.4	21.9	21.8	-146.33	-109.1	-882.9	82.5	39.1	43.41	1.900	Advise and Monitor
7,500.0	7,398.1	7,505.5	7,411.5	22.2	22.1	-146.17	-112.5	-900.5	83.6	39.5	44.10	1.896	Advise and Monitor
7,505.0	7,403.0	7,510.5	7,416.4	22.2	22.1	-146.16	-112.7	-901.5	83.7	39.5	44.14	1.895	Advise and Monitor
7,600.0	7,495.9	7,605.5	7,509.5	22.6	22.5	-146.00	-116.2	-920.1	84.8	40.0	44.87	1.891	Advise and Monitor, SF
7,695.0	7,588.9	7,699.3	7,601.5	22.9	22.8	-146.02	-119.6	-938.0	86.4	40.8	45.57	1.896	Advise and Monitor
7,700.0	7,593.8	7,704.2	7,606.3	23.0	22.9	-146.05	-119.7	-938.9	86.5	40.9	45.61	1.897	Advise and Monitor
7,790.0	7,681.8	7,791.9	7,692.8	23.3	23.2	-147.06	-122.4	-953.1	90.2	43.9	46.27	1.949	Advise and Monitor
7,800.0	7,691.6	7,801.6	7,702.4	23.3	23.2	-147.23	-122.7	-954.5	90.7	44.4	46.34	1.958	Advise and Monitor
7,885.0	7,774.7	7,884.1	7,784.2	23.7	23.6	-149.02	-124.7	-965.3	96.5	49.6	46.94	2.056	
7,900.0	7,789.4	7,900.0	7,800.0	23.7	23.6	-149.43	-125.1	-967.1	97.8	50.7	47.08	2.077	
7,980.0	7,867.6	7,975.9	7,875.5	24.0	23.9	-151.57	-126.5	-974.5	105.6	58.0	47.56	2.219	
8,000.0	7,887.2	7,995.1	7,894.6	24.1	24.0	-152.16	-126.8	-976.1	107.8	60.1	47.69	2.261	
8,075.0	7,960.6	8,066.9	7,966.2	24.4	24.3	-154.40	-127.7	-980.8	117.4	69.3	48.13	2.440	
8,100.0	7,985.0	8,090.7	7,990.0	24.5	24.4	-155.16	-127.9	-982.0	121.0	72.8	48.27	2.508	
8,170.0	8,053.5	8,157.0	8,056.3	24.7	24.6	-157.25	-128.3	-984.3	132.2	83.6	48.65	2.718	
8,200.0	8,082.8	8,185.2	8,084.5	24.9	24.8	-158.12	-128.4	-984.8	137.5	88.7	48.80	2.818	
8,265.0	8,146.4	8,247.1	8,146.4	25.1	25.0	-159.94	-128.5	-985.0	149.9	100.8	49.11	3.053	
8,300.0	8,180.6	8,281.3	8,180.6	25.2	25.1	-160.85	-128.5	-985.0	156.8	107.5	49.31	3.180	
8,360.0	8,239.3	8,340.0	8,239.3	25.5	25.2	-162.24	-128.5	-985.0	168.7	119.0	49.66	3.397	
8,400.0	8,278.5	8,379.2	8,278.5	25.6	25.3	-163.06	-128.5	-985.0	176.6	126.7	49.89	3.540	
8,455.0	8,332.3	8,433.0	8,332.3	25.8	25.5	-164.08	-128.5	-985.0	187.6	137.4	50.22	3.736	
8,500.0	8,376.3	8,477.0	8,376.3	26.0	25.6	-164.82	-128.5	-985.0	196.6	146.1	50.50	3.894	
8,550.0	8,425.2	8,525.9	8,425.2	26.2	25.8	-165.58	-128.5	-985.0	206.7	155.9	50.80	4.069	
8,600.0	8,474.1	8,574.8	8,474.1	26.4	25.9	-166.26	-128.5	-985.0	216.8	165.7	51.12	4.241	
8,645.0	8,518.1	8,618.8	8,518.1	26.5	26.1	-166.82	-128.5	-985.0	225.9	174.5	51.40	4.395	
8,700.0	8,571.9	8,672.6	8,571.9	26.7	26.2	-167.45	-128.5	-985.0	237.1	185.3	51.75	4.581	
8,740.0	8,611.0	8,711.7	8,611.0	26.9	26.3	-167.88	-128.5	-985.0	245.2	193.2	52.00	4.715	
8,800.0	8,669.7	8,770.4	8,669.7	27.1	26.5	-168.46	-128.5	-985.0	257.4	205.0	52.39	4.914	
8,835.0	8,704.0	8,804.7	8,704.0	27.3	26.6	-168.77	-128.5	-985.0	264.6	212.0	52.62	5.028	
8,900.0	8,767.5	8,868.2	8,767.5	27.5	26.8	-169.32	-128.5	-985.0	277.8	224.8	53.04	5.239	
8,930.0	8,796.9	8,897.6	8,796.9	27.6	26.9	-169.55	-128.5	-985.0	284.0	230.7	53.23	5.335	
9,000.0	8,865.3	8,966.0	8,865.3	27.9	27.1	-170.06	-128.5	-985.0	298.3	244.6	53.69	5.556	
9,025.0	8,889.8	8,990.5	8,889.8	28.0	27.2	-170.22	-128.5	-985.0	303.4	249.6	53.86	5.634	
9,106.4	8,969.4	9,070.1	8,969.4	28.3	27.4	-170.74	-128.5	-985.0	320.1	265.7	54.40	5.885	
9,120.0	8,982.7	9,083.4	8,982.7	28.3	27.5	-170.83	-128.5	-985.0	322.9	268.4	54.49	5.925	
9,200.0	9,061.3	9,162.0	9,061.3	28.7	27.7	-171.28	-128.5	-985.0	337.9	282.8	55.05	6.138	
9,215.0	9,076.1	9,176.8	9,076.1	28.7	27.8	-171.36	-128.5	-985.0	340.5	285.3	55.16	6.172	
9,300.0	9,160.0	9,260.7	9,160.0	29.1	28.0	-171.72	-128.5	-985.0	353.6	297.8	55.80	6.337	
9,310.0	9,169.9	9,270.6	9,169.9	29.1	28.1	-171.76	-128.5	-985.0	355.0	299.1	55.88	6.353	
9,400.0	9,259.2	9,359.9	9,259.2	29.5	28.3	-172.03	-128.5	-985.0	365.9	309.3	56.56	6.469	
9,405.0	9,264.2	9,364.9	9,264.2	29.5	28.4	-172.05	-128.5	-985.0	366.4	309.8	56.59	6.474	
9,500.0	9,358.8	9,459.5	9,358.8	29.9	28.7	-172.25	-128.5	-985.0	374.7	317.4	57.31	6.539	
9,595.0	9,453.7	9,554.4	9,453.7	30.2	29.0	-172.37	-128.5	-985.0	379.9	321.9	58.01	6.549	
9,600.0	9,458.7	9,559.4	9,458.7	30.2	29.0	-172.37	-128.5	-985.0	380.1	322.1	58.05	6.548	
9,690.0	9,548.6	9,649.3	9,548.6	30.6	29.2	-172.42	-128.5	-985.0	382.0	323.4	58.63	6.516	

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
9,706.4	9,565.0	9,665.7	9,565.0	30.6	29.3	89.46	-128.5	-985.0	382.1	323.3	58.74	6.505
9,785.0	9,643.6	9,744.3	9,643.6	30.9	29.5	89.46	-128.5	-985.0	382.1	322.8	59.23	6.450
9,800.0	9,658.6	9,759.3	9,658.6	30.9	29.6	89.46	-128.5	-985.0	382.1	322.7	59.33	6.440
9,880.0	9,738.6	9,839.3	9,738.6	31.1	29.8	89.46	-128.5	-985.0	382.1	322.2	59.83	6.386
9,900.0	9,758.6	9,859.3	9,758.6	31.2	29.9	89.46	-128.5	-985.0	382.1	322.1	59.96	6.372
9,975.0	9,833.6	9,934.3	9,833.6	31.4	30.2	89.46	-128.5	-985.0	382.1	321.6	60.43	6.322
10,000.0	9,858.6	9,959.3	9,858.6	31.5	30.2	89.46	-128.5	-985.0	382.1	321.5	60.59	6.306
10,070.0	9,928.6	10,029.3	9,928.6	31.7	30.5	89.46	-128.5	-985.0	382.1	321.0	61.04	6.260
10,100.0	9,958.6	10,059.3	9,958.6	31.8	30.5	89.46	-128.5	-985.0	382.1	320.8	61.23	6.240
10,165.0	10,023.6	10,124.3	10,023.6	32.0	30.7	89.46	-128.5	-985.0	382.1	320.5	61.60	6.202
10,168.4	10,027.0	10,127.7	10,027.0	32.0	30.7	89.46	-128.5	-985.0	382.1	320.5	61.62	6.201
10,200.0	10,058.6	10,159.1	10,058.6	32.1	30.8	89.46	-128.5	-985.0	382.1	320.3	61.75	6.187
10,260.0	10,118.6	10,216.4	10,115.5	32.3	30.8	90.08	-132.6	-984.8	382.3	320.4	61.92	6.175
10,300.0	10,158.6	10,253.7	10,152.3	32.4	30.8	91.03	-139.0	-984.4	382.8	320.8	62.02	6.173
10,355.0	10,213.6	10,303.0	10,199.8	32.6	30.8	92.93	-151.7	-983.6	384.2	322.1	62.12	6.185
10,363.9	10,222.5	10,310.6	10,207.1	32.6	30.8	93.29	-154.1	-983.5	384.6	322.4	62.12	6.190
10,375.0	10,233.6	10,320.2	10,216.1	32.6	30.8	-85.83	-157.3	-983.3	385.0	322.9	62.09	6.201
10,400.0	10,258.6	10,341.4	10,235.9	32.6	30.8	-84.69	-165.0	-982.8	386.2	324.2	62.01	6.228
10,425.0	10,283.5	10,362.4	10,255.1	32.6	30.9	-83.58	-173.5	-982.3	387.6	325.7	61.91	6.261
10,450.0	10,308.2	10,383.2	10,273.7	32.7	30.9	-82.48	-182.7	-981.8	389.2	327.4	61.80	6.298
10,475.0	10,332.6	10,403.7	10,291.7	32.7	30.9	-81.41	-192.6	-981.2	390.9	329.3	61.66	6.340
10,500.0	10,356.8	10,425.0	10,309.9	32.7	30.9	-80.33	-203.6	-980.5	392.8	331.3	61.54	6.383
10,525.0	10,380.6	10,444.2	10,325.8	32.7	30.9	-79.36	-214.3	-979.9	394.8	333.5	61.34	6.436
10,545.0	10,399.3	10,460.2	10,338.8	32.7	30.9	-78.57	-223.6	-979.3	396.5	335.3	61.20	6.479
10,550.0	10,404.0	10,464.2	10,342.0	32.7	30.9	-78.38	-226.0	-979.2	396.9	335.8	61.16	6.490
10,575.0	10,426.8	10,484.0	10,357.5	32.7	30.9	-77.43	-238.3	-978.4	399.1	338.2	60.96	6.547
10,600.0	10,449.1	10,503.6	10,372.3	32.7	31.0	-76.52	-251.2	-977.6	401.4	340.6	60.75	6.607
10,625.0	10,470.8	10,525.0	10,387.9	32.8	31.0	-75.59	-265.8	-976.8	403.7	343.1	60.59	6.664
10,640.0	10,483.5	10,534.8	10,394.7	32.8	31.0	-75.15	-272.7	-976.3	405.1	344.8	60.40	6.708
10,650.0	10,491.8	10,542.5	10,400.1	32.8	31.0	-74.82	-278.3	-976.0	406.1	345.8	60.31	6.734
10,675.0	10,512.1	10,561.8	10,413.0	32.8	31.0	-74.02	-292.5	-975.1	408.5	348.4	60.07	6.800
10,700.0	10,531.6	10,580.9	10,425.3	32.8	31.0	-73.27	-307.2	-974.3	410.9	351.1	59.84	6.867
10,725.0	10,550.2	10,600.0	10,436.9	32.8	31.0	-72.56	-322.3	-973.4	413.3	353.7	59.61	6.934
10,735.0	10,557.4	10,607.5	10,441.3	32.9	31.1	-72.29	-328.4	-973.0	414.3	354.7	59.51	6.961
10,750.0	10,567.9	10,618.9	10,447.8	32.9	31.1	-71.90	-337.7	-972.4	415.7	356.3	59.38	7.001
10,775.0	10,584.7	10,637.7	10,458.1	32.9	31.1	-71.27	-353.5	-971.5	418.0	358.9	59.15	7.067
10,800.0	10,600.5	10,656.5	10,467.6	32.9	31.1	-70.70	-369.6	-970.5	420.3	361.4	58.93	7.132
10,825.0	10,615.2	10,675.0	10,476.5	32.9	31.1	-70.16	-385.8	-969.5	422.6	363.8	58.72	7.196
10,830.0	10,618.1	10,678.9	10,478.3	32.9	31.1	-70.06	-389.3	-969.3	423.0	364.3	58.68	7.208
10,850.0	10,628.9	10,693.8	10,484.8	33.0	31.1	-69.67	-402.7	-968.5	424.7	366.2	58.53	7.257
10,875.0	10,641.5	10,712.4	10,492.4	33.0	31.2	-69.23	-419.6	-967.5	426.8	368.5	58.35	7.315
10,900.0	10,652.9	10,730.9	10,499.2	33.0	31.2	-68.83	-436.8	-966.5	428.8	370.6	58.19	7.369
10,925.0	10,663.1	10,750.0	10,505.6	33.0	31.2	-68.48	-454.7	-965.4	430.7	372.7	58.06	7.419
10,950.0	10,672.1	10,767.9	10,510.9	33.1	31.2	-68.18	-471.8	-964.3	432.5	374.6	57.92	7.467
10,975.0	10,679.9	10,786.3	10,515.7	33.1	31.2	-67.92	-489.5	-963.3	434.2	376.4	57.82	7.509
11,000.0	10,686.5	10,804.7	10,519.9	33.1	31.2	-67.70	-507.4	-962.2	435.8	378.0	57.75	7.546
11,020.0	10,690.8	10,819.4	10,522.7	33.1	31.3	-67.56	-521.8	-961.3	437.0	379.3	57.71	7.572
11,025.0	10,691.7	10,825.0	10,523.6	33.1	31.3	-67.53	-527.3	-961.0	437.2	379.5	57.73	7.575
11,050.0	10,695.7	10,841.5	10,526.0	33.2	31.3	-67.41	-543.6	-960.0	438.6	380.9	57.67	7.605
11,075.0	10,698.4	10,859.8	10,528.0	33.2	31.3	-67.33	-561.8	-958.9	439.8	382.1	57.67	7.626
11,100.0	10,699.8	10,875.0	10,529.2	33.2	31.3	-67.28	-576.9	-958.0	440.9	383.2	57.66	7.646

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
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	
11,113.9	10,700.0	10,888.4	10,529.8	33.2	31.3	-67.30	-590.3	-957.2	441.4	383.7	57.72	7.648		
11,115.0	10,700.0	10,889.3	10,529.8	33.2	31.3	-67.30	-591.1	-957.1	441.4	383.7	57.72	7.648		
11,200.0	10,700.0	10,980.2	10,530.0	33.3	31.4	-67.52	-682.0	-952.7	444.7	386.7	58.04	7.663		
11,210.0	10,700.0	10,991.9	10,530.0	33.4	31.4	-67.53	-693.6	-952.3	445.0	386.9	58.08	7.661		
11,300.0	10,700.0	11,091.2	10,530.0	33.5	31.6	-67.57	-793.0	-951.0	445.6	387.1	58.43	7.626		
11,305.0	10,700.0	11,096.2	10,530.0	33.5	31.6	-67.57	-798.0	-950.9	445.6	387.1	58.44	7.624		
11,400.0	10,700.0	11,191.2	10,530.0	33.6	31.7	-67.57	-893.0	-950.3	445.6	386.8	58.75	7.584		
11,495.0	10,700.0	11,286.2	10,530.0	33.8	31.9	-67.57	-988.0	-949.7	445.6	386.5	59.09	7.540		
11,500.0	10,700.0	11,291.2	10,530.0	33.8	31.9	-67.57	-993.0	-949.7	445.6	386.4	59.11	7.538		
11,590.0	10,700.0	11,381.2	10,530.0	33.9	32.0	-67.57	-1,083.0	-949.1	445.6	386.1	59.46	7.493		
11,600.0	10,700.0	11,391.2	10,530.0	33.9	32.0	-67.57	-1,093.0	-949.0	445.6	386.1	59.50	7.488		
11,685.0	10,700.0	11,476.2	10,530.0	34.1	32.2	-67.57	-1,178.0	-948.4	445.6	385.7	59.87	7.442		
11,700.0	10,700.0	11,491.2	10,530.0	34.1	32.2	-67.57	-1,193.0	-948.4	445.6	385.6	59.94	7.434		
11,780.0	10,700.0	11,571.2	10,530.0	34.3	32.4	-67.57	-1,273.0	-947.8	445.6	385.2	60.31	7.387		
11,800.0	10,700.0	11,591.2	10,530.0	34.3	32.4	-67.57	-1,293.0	-947.7	445.6	385.2	60.41	7.376		
11,875.0	10,700.0	11,666.2	10,530.0	34.5	32.6	-67.57	-1,368.0	-947.2	445.6	384.8	60.79	7.330		
11,900.0	10,700.0	11,691.2	10,530.0	34.5	32.7	-67.57	-1,393.0	-947.0	445.6	384.6	60.91	7.315		
11,970.0	10,700.0	11,761.2	10,530.0	34.7	32.8	-67.57	-1,463.0	-946.6	445.6	384.3	61.29	7.270		
12,000.0	10,700.0	11,791.2	10,530.0	34.8	32.9	-67.57	-1,493.0	-946.4	445.6	384.1	61.45	7.250		
12,065.0	10,700.0	11,856.2	10,530.0	34.9	33.1	-67.57	-1,558.0	-946.0	445.6	383.7	61.83	7.207		
12,100.0	10,700.0	11,891.2	10,530.0	35.0	33.2	-67.57	-1,593.0	-945.7	445.6	383.5	62.03	7.183		
12,160.0	10,700.0	11,951.2	10,530.0	35.2	33.4	-67.57	-1,653.0	-945.4	445.6	383.2	62.39	7.142		
12,200.0	10,700.0	11,991.2	10,530.0	35.3	33.5	-67.57	-1,693.0	-945.1	445.6	382.9	62.63	7.114		
12,255.0	10,700.0	12,046.2	10,530.0	35.4	33.6	-67.57	-1,748.0	-944.7	445.6	382.6	62.98	7.074		
12,300.0	10,700.0	12,091.2	10,530.0	35.5	33.8	-67.57	-1,793.0	-944.4	445.6	382.3	63.27	7.042		
12,350.0	10,700.0	12,141.2	10,530.0	35.7	33.9	-67.57	-1,842.9	-944.1	445.6	382.0	63.60	7.005		
12,400.0	10,700.0	12,191.2	10,530.0	35.8	34.1	-67.57	-1,892.9	-943.8	445.6	381.6	63.94	6.969		
12,445.0	10,700.0	12,236.2	10,530.0	36.0	34.2	-67.57	-1,937.9	-943.5	445.6	381.3	64.25	6.935		
12,500.0	10,700.0	12,291.2	10,530.0	36.1	34.4	-67.57	-1,992.9	-943.1	445.6	380.9	64.64	6.894		
12,540.0	10,700.0	12,331.2	10,530.0	36.3	34.5	-67.57	-2,032.9	-942.9	445.6	380.6	64.92	6.863		
12,600.0	10,700.0	12,391.2	10,530.0	36.5	34.7	-67.57	-2,092.9	-942.5	445.6	380.2	65.36	6.817		
12,635.0	10,700.0	12,426.2	10,530.0	36.6	34.9	-67.57	-2,127.9	-942.3	445.6	379.9	65.62	6.790		
12,700.0	10,700.0	12,491.2	10,530.0	36.8	35.1	-67.57	-2,192.9	-941.8	445.6	379.5	66.12	6.739		
12,730.0	10,700.0	12,521.2	10,530.0	36.9	35.2	-67.57	-2,222.9	-941.6	445.6	379.2	66.35	6.716		
12,800.0	10,700.0	12,591.2	10,530.0	37.1	35.5	-67.57	-2,292.9	-941.2	445.6	378.7	66.90	6.661		
12,825.0	10,700.0	12,616.2	10,530.0	37.2	35.5	-67.57	-2,317.9	-941.0	445.6	378.5	67.10	6.641		
12,900.0	10,700.0	12,691.2	10,530.0	37.5	35.8	-67.57	-2,392.9	-940.5	445.6	377.9	67.70	6.581		
12,920.0	10,700.0	12,711.2	10,530.0	37.6	35.9	-67.57	-2,412.9	-940.4	445.6	377.7	67.87	6.565		
13,000.0	10,700.0	12,791.2	10,530.0	37.9	36.2	-67.57	-2,492.9	-939.9	445.6	377.0	68.53	6.502		
13,015.0	10,700.0	12,806.2	10,530.0	37.9	36.3	-67.57	-2,507.9	-939.8	445.6	376.9	68.66	6.490		
13,100.0	10,700.0	12,891.2	10,530.0	38.2	36.6	-67.57	-2,592.9	-939.2	445.6	376.2	69.39	6.421		
13,110.0	10,700.0	12,901.2	10,530.0	38.3	36.7	-67.57	-2,602.9	-939.2	445.6	376.1	69.48	6.413		
13,200.0	10,700.0	12,991.2	10,530.0	38.6	37.0	-67.57	-2,692.9	-938.6	445.6	375.3	70.27	6.341		
13,205.0	10,700.0	12,996.2	10,530.0	38.7	37.1	-67.57	-2,697.9	-938.6	445.6	375.3	70.31	6.337		
13,300.0	10,700.0	13,091.2	10,530.0	39.0	37.5	-67.57	-2,792.9	-937.9	445.6	374.4	71.17	6.261		
13,395.0	10,700.0	13,186.2	10,530.0	39.4	37.9	-67.57	-2,887.9	-937.3	445.6	373.5	72.05	6.185		
13,400.0	10,700.0	13,191.2	10,530.0	39.5	37.9	-67.57	-2,892.9	-937.3	445.6	373.5	72.09	6.181		
13,490.0	10,700.0	13,281.2	10,530.0	39.8	38.3	-67.57	-2,982.9	-936.7	445.6	372.6	72.94	6.109		
13,500.0	10,700.0	13,291.2	10,530.0	39.9	38.4	-67.57	-2,992.9	-936.6	445.6	372.6	73.04	6.101		
13,585.0	10,700.0	13,376.2	10,530.0	40.3	38.8	-67.57	-3,077.9	-936.1	445.6	371.7	73.85	6.033		
13,600.0	10,700.0	13,391.2	10,530.0	40.3	38.8	-67.57	-3,092.9	-936.0	445.6	371.6	74.00	6.022		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	
13,680.0	10,700.0	13,471.2	10,530.0	40.7	39.2	-67.57	-3,172.9	-935.5	445.6	370.8	74.78	5.958
13,700.0	10,700.0	13,491.2	10,530.0	40.8	39.3	-67.57	-3,192.9	-935.3	445.6	370.6	74.98	5.943
13,775.0	10,700.0	13,566.2	10,530.0	41.1	39.6	-67.57	-3,267.9	-934.8	445.6	369.9	75.73	5.884
13,800.0	10,700.0	13,591.2	10,530.0	41.2	39.8	-67.57	-3,292.9	-934.7	445.6	369.6	75.98	5.864
13,870.0	10,700.0	13,661.2	10,530.0	41.6	40.1	-67.57	-3,362.9	-934.2	445.6	368.9	76.69	5.810
13,900.0	10,700.0	13,691.2	10,530.0	41.7	40.3	-67.57	-3,392.9	-934.0	445.6	368.6	77.00	5.787
13,965.0	10,700.0	13,756.2	10,530.0	42.0	40.6	-67.57	-3,457.9	-933.6	445.6	367.9	77.67	5.737
14,000.0	10,700.0	13,791.2	10,530.0	42.2	40.8	-67.57	-3,492.9	-933.4	445.6	367.6	78.04	5.710
14,060.0	10,700.0	13,851.2	10,530.0	42.5	41.1	-67.57	-3,552.9	-933.0	445.6	366.9	78.67	5.664
14,100.0	10,700.0	13,891.2	10,530.0	42.7	41.3	-67.57	-3,592.9	-932.7	445.6	366.5	79.09	5.634
14,155.0	10,700.0	13,946.2	10,530.0	42.9	41.5	-67.57	-3,647.9	-932.4	445.6	365.9	79.67	5.593
14,200.0	10,700.0	13,991.2	10,530.0	43.1	41.8	-67.57	-3,692.9	-932.1	445.6	365.4	80.15	5.559
14,250.0	10,700.0	14,041.2	10,530.0	43.4	42.0	-67.57	-3,742.9	-931.8	445.6	364.9	80.70	5.522
14,300.0	10,700.0	14,091.2	10,530.0	43.6	42.3	-67.57	-3,792.9	-931.4	445.6	364.4	81.24	5.485
14,345.0	10,700.0	14,136.2	10,530.0	43.9	42.5	-67.57	-3,837.9	-931.1	445.6	363.9	81.73	5.452
14,400.0	10,700.0	14,191.2	10,530.0	44.2	42.8	-67.57	-3,892.9	-930.8	445.6	363.3	82.33	5.412
14,440.0	10,700.0	14,231.2	10,530.0	44.4	43.0	-67.57	-3,932.9	-930.5	445.6	362.8	82.78	5.383
14,500.0	10,700.0	14,291.2	10,530.0	44.7	43.4	-67.57	-3,992.9	-930.1	445.6	362.2	83.44	5.340
14,535.0	10,700.0	14,326.2	10,530.0	44.9	43.5	-67.57	-4,027.9	-929.9	445.6	361.8	83.84	5.315
14,600.0	10,700.0	14,391.2	10,530.0	45.2	43.9	-67.57	-4,092.9	-929.5	445.6	361.0	84.57	5.269
14,630.0	10,700.0	14,421.2	10,530.0	45.4	44.1	-67.57	-4,122.9	-929.3	445.6	360.7	84.91	5.248
14,700.0	10,700.0	14,491.2	10,530.0	45.7	44.4	-67.57	-4,192.9	-928.8	445.6	359.9	85.71	5.199
14,725.0	10,700.0	14,516.2	10,530.0	45.9	44.6	-67.57	-4,217.9	-928.7	445.6	359.6	85.99	5.182
14,800.0	10,700.0	14,591.2	10,530.0	46.3	45.0	-67.57	-4,292.9	-928.2	445.6	358.8	86.86	5.130
14,820.0	10,700.0	14,611.2	10,530.0	46.4	45.1	-67.57	-4,312.9	-928.0	445.6	358.5	87.09	5.117
14,900.0	10,700.0	14,691.2	10,530.0	46.8	45.6	-67.57	-4,392.9	-927.5	445.6	357.6	88.02	5.063
14,915.0	10,700.0	14,706.2	10,530.0	46.9	45.6	-67.57	-4,407.9	-927.4	445.6	357.4	88.19	5.053
15,000.0	10,700.0	14,791.2	10,530.0	47.4	46.1	-67.57	-4,492.9	-926.9	445.6	356.4	89.19	4.996
15,010.0	10,700.0	14,801.2	10,530.0	47.4	46.2	-67.57	-4,502.9	-926.8	445.6	356.3	89.31	4.990
15,100.0	10,700.0	14,891.2	10,530.0	47.9	46.7	-67.57	-4,592.9	-926.2	445.6	355.2	90.37	4.931
15,105.0	10,700.0	14,896.2	10,530.0	47.9	46.7	-67.57	-4,597.9	-926.2	445.6	355.2	90.43	4.928
15,200.0	10,700.0	14,991.2	10,530.0	48.5	47.3	-67.57	-4,692.9	-925.6	445.6	354.0	91.57	4.867
15,295.0	10,700.0	15,086.2	10,530.0	49.0	47.8	-67.57	-4,787.9	-925.0	445.6	352.9	92.71	4.807
15,300.0	10,700.0	15,091.2	10,530.0	49.0	47.9	-67.57	-4,792.9	-924.9	445.6	352.8	92.77	4.803
15,390.0	10,700.0	15,181.2	10,530.0	49.6	48.4	-67.57	-4,882.9	-924.3	445.6	351.8	93.86	4.748
15,400.0	10,700.0	15,191.2	10,530.0	49.6	48.4	-67.57	-4,892.9	-924.3	445.6	351.6	93.98	4.741
15,485.0	10,700.0	15,276.2	10,530.0	50.1	48.9	-67.57	-4,977.9	-923.7	445.6	350.6	95.02	4.690
15,500.0	10,700.0	15,291.2	10,530.0	50.2	49.0	-67.57	-4,992.9	-923.6	445.6	350.4	95.21	4.681
15,580.0	10,700.0	15,371.2	10,530.0	50.7	49.5	-67.57	-5,072.9	-923.1	445.6	349.4	96.19	4.633
15,600.0	10,700.0	15,391.2	10,530.0	50.8	49.6	-67.57	-5,092.9	-923.0	445.6	349.2	96.44	4.621
15,675.0	10,700.0	15,466.2	10,530.0	51.2	50.1	-67.57	-5,167.9	-922.5	445.6	348.2	97.37	4.577
15,700.0	10,700.0	15,491.2	10,530.0	51.4	50.2	-67.57	-5,192.9	-922.3	445.6	347.9	97.68	4.562
15,770.0	10,700.0	15,561.2	10,530.0	51.8	50.7	-67.57	-5,262.9	-921.9	445.6	347.1	98.55	4.522
15,800.0	10,700.0	15,591.2	10,530.0	52.0	50.8	-67.57	-5,292.9	-921.7	445.6	346.7	98.93	4.504
15,865.0	10,700.0	15,656.2	10,530.0	52.3	51.2	-67.57	-5,357.9	-921.2	445.6	345.9	99.75	4.468
15,900.0	10,700.0	15,691.2	10,530.0	52.5	51.5	-67.57	-5,392.9	-921.0	445.6	345.4	100.19	4.448
15,960.0	10,700.0	15,751.2	10,530.0	52.9	51.8	-67.57	-5,452.9	-920.6	445.6	344.7	100.94	4.415
16,000.0	10,700.0	15,791.2	10,530.0	53.1	52.1	-67.57	-5,492.9	-920.4	445.6	344.2	101.45	4.393
16,055.0	10,700.0	15,846.2	10,530.0	53.5	52.4	-67.57	-5,547.9	-920.0	445.6	343.5	102.15	4.362
16,100.0	10,700.0	15,891.2	10,530.0	53.8	52.7	-67.57	-5,592.9	-919.7	445.6	342.9	102.72	4.338
16,150.0	10,700.0	15,941.2	10,530.0	54.1	53.0	-67.57	-5,642.9	-919.4	445.6	342.3	103.36	4.311

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
16,200.0	10,700.0	15,991.2	10,530.0	54.4	53.3	-67.57	-5,692.9	-919.1	445.6	341.6	104.00	4.285
16,245.0	10,700.0	16,036.2	10,530.0	54.6	53.6	-67.57	-5,737.9	-918.8	445.6	341.0	104.58	4.261
16,300.0	10,700.0	16,091.2	10,530.0	55.0	53.9	-67.57	-5,792.9	-918.4	445.6	340.3	105.29	4.232
16,340.0	10,700.0	16,131.2	10,530.0	55.2	54.2	-67.57	-5,832.9	-918.1	445.6	339.8	105.80	4.212
16,400.0	10,700.0	16,191.2	10,530.0	55.6	54.6	-67.57	-5,892.9	-917.8	445.6	339.0	106.58	4.181
16,435.0	10,700.0	16,226.2	10,530.0	55.8	54.8	-67.57	-5,927.9	-917.5	445.6	338.6	107.03	4.163
16,500.0	10,700.0	16,291.2	10,530.0	56.2	55.2	-67.57	-5,992.9	-917.1	445.6	337.8	107.88	4.131
16,530.0	10,700.0	16,321.2	10,530.0	56.4	55.4	-67.57	-6,022.9	-916.9	445.6	337.4	108.27	4.116
16,600.0	10,700.0	16,391.2	10,530.0	56.8	55.8	-67.57	-6,092.9	-916.5	445.6	336.4	109.18	4.081
16,625.0	10,700.0	16,416.2	10,530.0	57.0	56.0	-67.57	-6,117.9	-916.3	445.6	336.1	109.51	4.069
16,700.0	10,700.0	16,491.2	10,530.0	57.5	56.5	-67.57	-6,192.9	-915.8	445.6	335.1	110.50	4.033
16,720.0	10,700.0	16,511.2	10,530.0	57.6	56.6	-67.57	-6,212.9	-915.7	445.6	334.9	110.76	4.023
16,800.0	10,700.0	16,591.2	10,530.0	58.1	57.1	-67.57	-6,292.9	-915.2	445.6	333.8	111.81	3.986
16,815.0	10,700.0	16,606.2	10,530.0	58.2	57.2	-67.57	-6,307.9	-915.1	445.6	333.6	112.01	3.978
16,900.0	10,700.0	16,691.2	10,530.0	58.7	57.8	-67.57	-6,392.9	-914.5	445.6	332.5	113.14	3.939
16,910.0	10,700.0	16,701.2	10,530.0	58.8	57.8	-67.57	-6,402.9	-914.4	445.6	332.4	113.27	3.934
17,000.0	10,700.0	16,791.2	10,530.0	59.4	58.4	-67.57	-6,492.9	-913.9	445.6	331.2	114.46	3.893
17,005.0	10,700.0	16,796.2	10,530.0	59.4	58.5	-67.57	-6,497.9	-913.8	445.6	331.1	114.53	3.891
17,100.0	10,700.0	16,891.2	10,530.0	60.0	59.1	-67.58	-6,592.8	-913.2	445.6	329.8	115.80	3.848
17,195.0	10,700.0	16,986.2	10,530.0	60.6	59.7	-67.58	-6,687.8	-912.6	445.6	328.6	117.07	3.807
17,200.0	10,700.0	16,991.2	10,530.0	60.7	59.7	-67.58	-6,692.8	-912.6	445.6	328.5	117.14	3.805
17,290.0	10,700.0	17,081.2	10,530.0	61.2	60.3	-67.58	-6,782.8	-912.0	445.6	327.3	118.34	3.766
17,300.0	10,700.0	17,091.2	10,530.0	61.3	60.4	-67.58	-6,792.8	-911.9	445.6	327.2	118.48	3.761
17,385.0	10,700.0	17,176.2	10,530.0	61.9	60.9	-67.58	-6,877.8	-911.3	445.6	326.0	119.62	3.725
17,400.0	10,700.0	17,191.2	10,530.0	62.0	61.0	-67.58	-6,892.8	-911.2	445.6	325.8	119.83	3.719
17,480.0	10,700.0	17,271.2	10,530.0	62.5	61.6	-67.58	-6,972.8	-910.7	445.6	324.7	120.91	3.686
17,500.0	10,700.0	17,291.2	10,530.0	62.6	61.7	-67.58	-6,992.8	-910.6	445.6	324.5	121.18	3.678
17,575.0	10,700.0	17,366.2	10,530.0	63.1	62.2	-67.58	-7,067.8	-910.1	445.6	323.5	122.20	3.647
17,600.0	10,700.0	17,391.2	10,530.0	63.3	62.4	-67.58	-7,092.8	-909.9	445.6	323.1	122.53	3.637
17,670.0	10,700.0	17,461.2	10,530.0	63.7	62.8	-67.58	-7,162.8	-909.5	445.6	322.2	123.49	3.609
17,700.0	10,700.0	17,491.2	10,530.0	63.9	63.0	-67.58	-7,192.8	-909.3	445.6	321.8	123.89	3.597
17,765.0	10,700.0	17,556.2	10,530.0	64.3	63.5	-67.58	-7,257.8	-908.9	445.7	320.9	124.78	3.571
17,800.0	10,700.0	17,591.2	10,530.0	64.6	63.7	-67.58	-7,292.8	-908.6	445.7	320.4	125.26	3.558
17,860.0	10,700.0	17,651.2	10,530.0	65.0	64.1	-67.58	-7,352.8	-908.3	445.7	319.6	126.08	3.535
17,900.0	10,700.0	17,691.2	10,530.0	65.2	64.4	-67.58	-7,392.8	-908.0	445.7	319.0	126.63	3.519
17,955.0	10,700.0	17,746.2	10,530.0	65.6	64.7	-67.58	-7,447.8	-907.6	445.7	318.3	127.38	3.499
18,000.0	10,700.0	17,791.2	10,530.0	65.9	65.0	-67.58	-7,492.8	-907.3	445.7	317.7	128.00	3.482
18,050.0	10,700.0	17,841.2	10,530.0	66.2	65.4	-67.58	-7,542.8	-907.0	445.7	317.0	128.69	3.463
18,100.0	10,700.0	17,891.2	10,530.0	66.6	65.7	-67.58	-7,592.8	-906.7	445.7	316.3	129.38	3.445
18,145.0	10,700.0	17,936.2	10,530.0	66.9	66.0	-67.58	-7,637.8	-906.4	445.7	315.7	130.00	3.428
18,200.0	10,700.0	17,991.2	10,530.0	67.2	66.4	-67.58	-7,692.8	-906.0	445.7	314.9	130.76	3.408
18,240.0	10,700.0	18,031.2	10,530.0	67.5	66.7	-67.58	-7,732.8	-905.8	445.7	314.3	131.31	3.394
18,300.0	10,700.0	18,091.2	10,530.0	67.9	67.1	-67.58	-7,792.8	-905.4	445.7	313.5	132.14	3.373
18,335.0	10,700.0	18,126.2	10,530.0	68.1	67.3	-67.58	-7,827.8	-905.2	445.7	313.0	132.63	3.360
18,400.0	10,700.0	18,191.2	10,530.0	68.6	67.8	-67.58	-7,892.8	-904.7	445.7	312.1	133.53	3.338
18,430.0	10,700.0	18,221.2	10,530.0	68.8	68.0	-67.58	-7,922.8	-904.5	445.7	311.7	133.94	3.327
18,500.0	10,700.0	18,291.2	10,530.0	69.3	68.4	-67.58	-7,992.8	-904.1	445.7	310.7	134.92	3.303
18,525.0	10,700.0	18,316.2	10,530.0	69.4	68.6	-67.58	-8,017.8	-903.9	445.7	310.4	135.26	3.295
18,600.0	10,700.0	18,391.2	10,530.0	69.9	69.1	-67.58	-8,092.8	-903.4	445.7	309.4	136.31	3.269
18,620.0	10,700.0	18,411.2	10,530.0	70.1	69.3	-67.58	-8,112.8	-903.3	445.7	309.1	136.59	3.263
18,700.0	10,700.0	18,491.2	10,530.0	70.6	69.8	-67.58	-8,192.8	-902.8	445.7	308.0	137.71	3.236

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802Y - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10153-MWD+IFR1+MS						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		
18,715.0	10,700.0	18,506.2	10,530.0	70.7	69.9	-67.58	-8,207.8	-902.7	445.7	307.7	137.92	3.231		
18,800.0	10,700.0	18,591.2	10,530.0	71.3	70.5	-67.58	-8,292.8	-902.1	445.7	306.6	139.10	3.204		
18,810.0	10,700.0	18,601.2	10,530.0	71.4	70.6	-67.58	-8,302.8	-902.1	445.7	306.4	139.25	3.201		
18,900.0	10,700.0	18,691.2	10,530.0	72.0	71.2	-67.58	-8,392.8	-901.5	445.7	305.2	140.51	3.172		
18,905.0	10,700.0	18,696.2	10,530.0	72.0	71.2	-67.58	-8,397.8	-901.5	445.7	305.1	140.58	3.170		
19,000.0	10,700.0	18,791.2	10,530.0	72.6	71.9	-67.58	-8,492.8	-900.8	445.7	303.8	141.91	3.140		
19,095.0	10,700.0	18,886.2	10,530.0	73.3	72.5	-67.58	-8,587.8	-900.2	445.7	302.4	143.25	3.111		
19,100.0	10,700.0	18,891.2	10,530.0	73.3	72.6	-67.58	-8,592.8	-900.2	445.7	302.4	143.32	3.110		
19,190.0	10,700.0	18,981.2	10,530.0	74.0	73.2	-67.58	-8,682.8	-899.6	445.7	301.1	144.59	3.082		
19,200.0	10,700.0	18,991.2	10,530.0	74.0	73.3	-67.58	-8,692.8	-899.5	445.7	300.9	144.73	3.079		
19,285.0	10,700.0	19,076.2	10,530.0	74.6	73.9	-67.58	-8,777.8	-899.0	445.7	299.7	145.93	3.054		
19,300.0	10,700.0	19,091.2	10,530.0	74.7	74.0	-67.58	-8,792.8	-898.9	445.7	299.5	146.14	3.050		
19,380.0	10,700.0	19,171.2	10,530.0	75.3	74.5	-67.58	-8,872.8	-898.4	445.7	298.4	147.27	3.026		
19,400.0	10,700.0	19,191.2	10,530.0	75.4	74.7	-67.58	-8,892.8	-898.2	445.7	298.1	147.56	3.020		
19,475.0	10,700.0	19,266.2	10,530.0	75.9	75.2	-67.58	-8,967.8	-897.7	445.7	297.1	148.62	2.999		
19,500.0	10,700.0	19,291.2	10,530.0	76.1	75.4	-67.58	-8,992.8	-897.6	445.7	296.7	148.97	2.992		
19,570.0	10,700.0	19,361.2	10,530.0	76.6	75.8	-67.58	-9,062.8	-897.1	445.7	295.7	149.97	2.972		
19,600.0	10,700.0	19,391.2	10,530.0	76.8	76.1	-67.58	-9,092.8	-896.9	445.7	295.3	150.39	2.963		
19,665.0	10,700.0	19,456.2	10,530.0	77.2	76.5	-67.58	-9,157.8	-896.5	445.7	294.4	151.32	2.945		
19,700.0	10,700.0	19,491.2	10,530.0	77.5	76.8	-67.58	-9,192.8	-896.3	445.7	293.9	151.82	2.936		
19,760.0	10,700.0	19,551.2	10,530.0	77.9	77.2	-67.58	-9,252.8	-895.9	445.7	293.0	152.67	2.919		
19,800.0	10,700.0	19,591.2	10,530.0	78.2	77.5	-67.58	-9,292.8	-895.6	445.7	292.4	153.24	2.908		
19,855.0	10,700.0	19,646.2	10,530.0	78.6	77.8	-67.58	-9,347.8	-895.3	445.7	291.7	154.03	2.894		
19,900.0	10,700.0	19,691.2	10,530.0	78.9	78.2	-67.58	-9,392.8	-895.0	445.7	291.0	154.67	2.882		
19,950.0	10,700.0	19,741.2	10,530.0	79.2	78.5	-67.58	-9,442.8	-894.7	445.7	290.3	155.38	2.868		
20,000.0	10,700.0	19,791.2	10,530.0	79.6	78.9	-67.58	-9,492.8	-894.3	445.7	289.6	156.10	2.855		
20,045.0	10,700.0	19,836.2	10,530.0	79.9	79.2	-67.58	-9,537.8	-894.0	445.7	288.9	156.74	2.843		
20,100.0	10,700.0	19,891.2	10,530.0	80.3	79.6	-67.58	-9,592.8	-893.7	445.7	288.2	157.53	2.829		
20,140.0	10,700.0	19,931.2	10,530.0	80.5	79.9	-67.58	-9,632.8	-893.4	445.7	287.6	158.10	2.819		
20,200.0	10,700.0	19,991.2	10,530.0	81.0	80.3	-67.58	-9,692.8	-893.0	445.7	286.7	158.96	2.804		
20,235.0	10,700.0	20,026.2	10,530.0	81.2	80.5	-67.58	-9,727.8	-892.8	445.7	286.2	159.46	2.795		
20,300.0	10,700.0	20,091.2	10,530.0	81.7	81.0	-67.58	-9,792.8	-892.4	445.7	285.3	160.39	2.779		
20,330.0	10,700.0	20,121.2	10,530.0	81.9	81.2	-67.58	-9,822.8	-892.2	445.7	284.9	160.83	2.771		
20,400.0	10,700.0	20,191.2	10,530.0	82.4	81.7	-67.58	-9,892.8	-891.7	445.7	283.9	161.83	2.754		
20,425.0	10,700.0	20,216.2	10,530.0	82.5	81.9	-67.58	-9,917.8	-891.6	445.7	283.5	162.19	2.748		
20,500.0	10,700.0	20,291.2	10,530.0	83.1	82.4	-67.58	-9,992.8	-891.1	445.7	282.4	163.27	2.730		
20,520.0	10,700.0	20,311.2	10,530.0	83.2	82.5	-67.58	-10,012.8	-890.9	445.7	282.1	163.56	2.725		
20,601.5	10,700.0	20,392.7	10,530.0	83.8	83.1	-67.58	-10,094.2	-890.4	445.7	281.0	164.73	2.706		
20,615.0	10,700.0	20,406.2	10,530.0	83.9	83.2	-67.58	-10,107.8	-890.3	445.7	280.8	164.92	2.702		
20,700.0	10,700.0	20,491.2	10,530.0	84.5	83.8	-67.58	-10,192.8	-889.8	445.7	279.5	166.15	2.682		
20,710.0	10,700.0	20,501.2	10,530.0	84.5	83.9	-67.58	-10,202.8	-889.7	445.7	279.4	166.29	2.680		
20,731.5	10,700.0	20,522.7	10,530.0	84.7	84.0	-67.58	-10,224.2	-889.6	445.7	279.1	166.60	2.675		

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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #803H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 873-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.46	-0.7	-90.0	90.1				
95.0	95.0	91.8	91.8	3.0	3.0	-90.72	-1.1	-90.1	90.1	84.1	6.00	15.016	
100.0	100.0	96.8	96.8	3.0	3.0	-90.74	-1.2	-90.1	90.1	84.1	6.00	15.017	
190.0	190.0	187.3	187.3	3.0	3.0	-91.50	-2.4	-90.0	90.1	84.1	6.00	15.006	
200.0	200.0	197.3	197.3	3.0	3.0	-91.58	-2.5	-90.0	90.0	84.0	6.00	15.000	
285.0	285.0	282.1	282.1	3.0	3.0	-92.24	-3.5	-89.7	89.8	83.8	6.01	14.949	
300.0	300.0	297.2	297.1	3.0	3.0	-92.39	-3.7	-89.7	89.8	83.8	6.01	14.943	
380.0	380.0	377.4	377.4	3.0	3.0	-93.15	-4.9	-89.3	89.4	83.4	6.02	14.867	
400.0	400.0	397.2	397.1	3.0	3.0	-93.35	-5.2	-89.2	89.4	83.4	6.02	14.852	
413.7	413.7	410.8	410.7	3.0	3.0	-93.48	-5.4	-89.2	89.4	83.4	6.02	14.846	
475.0	475.0	471.8	471.8	3.0	3.0	-94.07	-6.3	-89.3	89.5	83.5	6.03	14.847	
500.0	500.0	496.8	496.8	3.1	3.1	-94.32	-6.7	-89.3	89.5	83.5	6.03	14.848	
570.0	570.0	566.8	566.7	3.1	3.1	-95.17	-8.1	-89.4	89.7	83.7	6.04	14.853	
600.0	600.0	596.9	596.9	3.1	3.1	-95.52	-8.6	-89.4	89.8	83.8	6.05	14.854	
665.0	665.0	662.5	662.5	3.1	3.1	-96.19	-9.7	-89.2	89.7	83.6	6.06	14.803	
700.0	700.0	697.7	697.7	3.1	3.1	-96.66	-10.4	-88.9	89.5	83.4	6.07	14.747	
760.0	760.0	757.7	757.6	3.1	3.2	-97.64	-11.8	-88.2	89.0	82.9	6.10	14.596	
800.0	800.0	797.7	797.6	3.2	3.2	-98.37	-12.9	-87.8	88.8	82.6	6.13	14.481	
855.0	855.0	852.7	852.5	3.2	3.4	-99.48	-14.6	-87.2	88.4	82.2	6.19	14.292	
900.0	900.0	897.6	897.4	3.2	3.5	-100.43	-16.0	-86.7	88.2	81.9	6.24	14.122	
950.0	950.0	947.4	947.2	3.2	3.6	-101.24	-17.2	-86.3	88.0	81.7	6.31	13.939	
985.2	985.2	982.4	982.2	3.2	3.7	-101.61	-17.7	-86.1	87.9	81.5	6.40	13.748 CC	
1,000.0	1,000.0	997.0	996.9	3.2	3.7	-101.67	-17.8	-86.1	87.9	81.5	6.44	13.648 ES	
1,045.0	1,045.0	1,041.6	1,041.4	3.3	3.8	-101.55	-17.6	-86.3	88.1	81.5	6.60	13.349	
1,100.0	1,100.0	1,096.2	1,096.0	3.3	4.1	-100.93	-16.8	-87.0	88.7	81.8	6.81	13.014	
1,140.0	1,140.0	1,135.9	1,135.7	3.3	4.3	-100.47	-16.2	-87.7	89.2	82.2	6.98	12.786	
1,200.0	1,200.0	1,195.7	1,195.5	3.4	4.5	-99.73	-15.2	-88.9	90.2	83.1	7.07	12.751 SF	
1,235.0	1,235.0	1,230.6	1,230.4	3.4	4.5	-99.26	-14.6	-89.6	90.8	83.7	7.11	12.761	
1,300.0	1,300.0	1,295.6	1,295.3	3.4	4.6	-98.38	-13.4	-91.0	92.0	84.8	7.21	12.761	
1,330.0	1,330.0	1,325.6	1,325.3	3.4	4.7	-97.97	-12.8	-91.6	92.5	85.3	7.25	12.758	
1,400.0	1,400.0	1,336.0	1,335.7	3.5	4.7	-97.83	-12.6	-91.8	111.1	104.6	6.53	17.019	
1,425.0	1,425.0	1,336.0	1,335.7	3.5	4.7	-97.83	-12.6	-91.8	126.6	120.5	6.11	20.722	
1,500.0	1,500.0	1,336.0	1,335.7	3.5	4.7	-97.83	-12.6	-91.8	186.0	180.7	5.31	35.008	
1,520.0	1,520.0	1,336.0	1,335.7	3.6	4.7	-97.83	-12.6	-91.8	203.6	198.4	5.20	39.153	
1,600.0	1,600.0	1,336.0	1,335.7	3.6	4.7	-97.83	-12.6	-91.8	277.2	272.3	4.97	55.835	
1,615.0	1,615.0	1,336.0	1,335.7	3.6	4.7	-97.83	-12.6	-91.8	291.4	286.5	4.95	58.922	
1,700.0	1,700.0	1,336.0	1,335.7	3.7	4.7	-97.83	-12.6	-91.8	373.0	368.1	4.91	75.993	
1,710.0	1,710.0	1,336.0	1,335.7	3.7	4.7	-97.83	-12.6	-91.8	382.7	377.8	4.91	77.949	
1,800.0	1,800.0	1,336.0	1,335.7	3.8	4.7	-97.83	-12.6	-91.8	470.5	465.6	4.95	95.076	
1,805.0	1,805.0	1,336.0	1,335.7	3.8	4.7	-97.83	-12.6	-91.8	475.4	470.5	4.95	96.002	
1,900.0	1,900.0	1,336.0	1,335.7	3.9	4.7	-97.83	-12.6	-91.8	568.9	563.9	5.03	113.124	
1,995.0	1,995.0	1,336.0	1,335.7	3.9	4.7	-97.83	-12.6	-91.8	662.8	657.7	5.12	129.381	
2,000.0	2,000.0	1,336.0	1,335.7	3.9	4.7	-97.83	-12.6	-91.8	667.8	662.6	5.13	130.215	
2,090.0	2,090.0	1,336.0	1,335.7	4.1	4.7	-69.85	-12.6	-91.8	757.0	750.9	6.03	125.558	
2,100.0	2,100.0	1,336.0	1,335.7	4.2	4.7	-68.42	-12.6	-91.8	766.9	760.7	6.13	125.104	
2,185.0	2,184.9	1,336.0	1,335.7	4.7	4.7	-56.80	-12.6	-91.8	851.2	845.0	6.20	137.201	
2,200.0	2,199.8	1,336.0	1,335.7	4.8	4.7	-54.90	-12.6	-91.8	866.0	859.8	6.22	139.300	
2,250.0	2,249.7	1,336.0	1,335.7	4.9	4.7	-48.97	-12.6	-91.8	915.6	909.3	6.26	146.225	
2,280.0	2,279.6	1,336.0	1,335.7	5.0	4.7	-48.97	-12.6	-91.8	945.3	939.1	6.29	150.296	
2,300.0	2,299.5	1,336.0	1,335.7	5.0	4.7	-48.97	-12.6	-91.8	965.2	958.9	6.31	152.991	

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

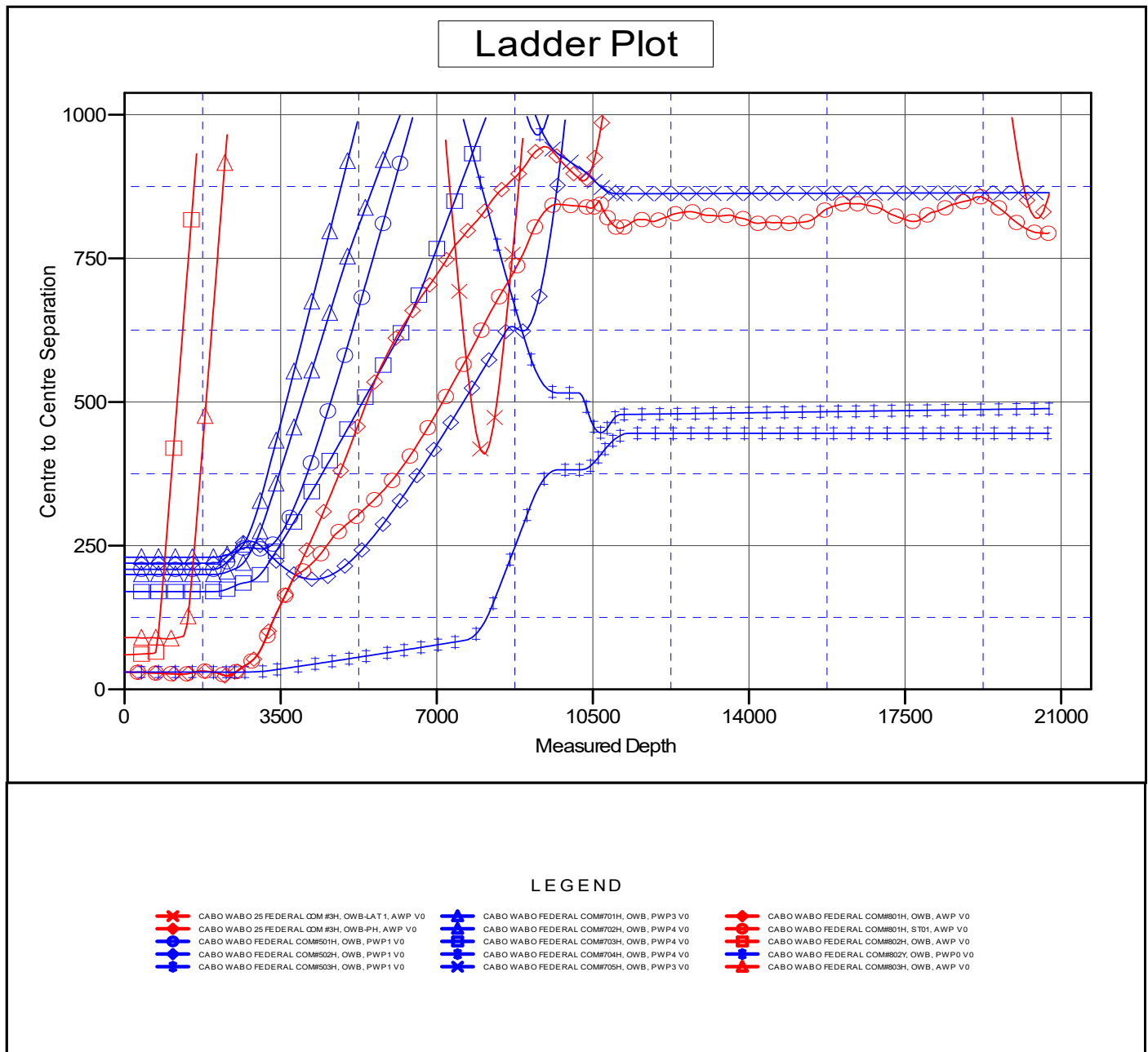
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 32ft + GL 3148ft @ 3180.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FEDERAL COM #803Y
 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 FEDERAL COM #803Y
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #803Y	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:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 32ft + GL 3148ft @ 3180.0usft

Offset Depths are relative to Offset Datum

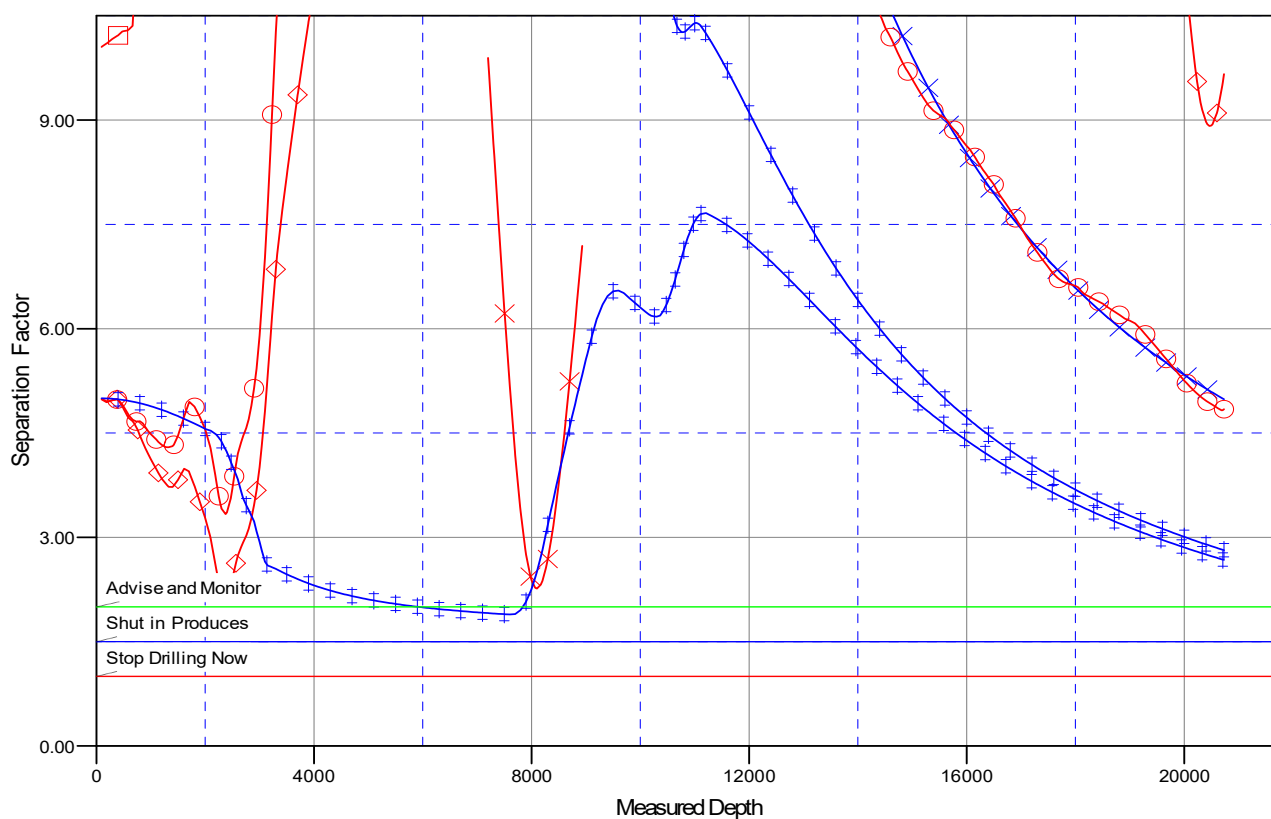
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FEDERAL COM #803Y

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 25 FEDERAL COM #83H, OWB-LAT 1, AWP V0	CABO WABO FEDERAL COM#701H, OWB, PWP3 V0	CABO WABO FEDERAL COM#801H, OWB, AWP V0
CABO WABO 25 FEDERAL COM #83H, OWB-PH, AWP V0	CABO WABO FEDERAL COM#702H, OWB, PWP4 V0	CABO WABO FEDERAL COM#801H, STD1, AWP V0
CABO WABO FEDERAL COM#501H, OWB, PWP1 V0	CABO WABO FEDERAL COM#703H, OWB, PWP4 V0	CABO WABO FEDERAL COM#802H, OWB, AWP V0
CABO WABO FEDERAL COM#502H, OWB, PWP1 V0	CABO WABO FEDERAL COM#704H, OWB, PWP4 V0	CABO WABO FEDERAL COM#802H, OWB, PWP0 V0
CABO WABO FEDERAL COM#503H, OWB, PWP1 V0	CABO WABO FEDERAL COM#705H, OWB, PWP3 V0	CABO WABO FEDERAL COM#803H, OWB, AWP V0

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FEDERAL COM #803H

OWB

Plan: PWP0

Standard Planning Report

05 July, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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		

Site	CABO WABO FEDERAL PROJECT (ATLAS 2529)		
Site Position:		Northing:	408,555.74 usft
From:	Map	Easting:	619,848.48 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 21.520 N
		Longitude:	103° 56' 46.334 W
		Grid Convergence:	0.21 °

Well	CABO WABO FEDERAL COM #803Y					
Well Position	+N/-S	-181.4 usft	Northing:	408,374.39 usft	Latitude:	32° 7' 19.571 N
	+E/-W	4,247.0 usft	Easting:	624,095.49 usft	Longitude:	103° 55' 56.956 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,148.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	7/1/2022	6.62	59.75	47,503.09480947

Design	PWP0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	187.25	

Plan Survey Tool Program	Date	7/5/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	
				Standard Wireline Keeper ver 1	
2	2,000.0	10,363.9	PWP0 (OWB)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	
3	10,363.9	20,731.5	PWP0 (OWB)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	5.00	345.00	2,249.7	10.5	-2.8	2.00	2.00	0.00	345.00	
2,535.0	5.00	345.00	2,533.6	34.5	-9.3	0.00	0.00	0.00	0.00	
3,156.0	12.00	261.87	3,149.1	51.6	-80.4	2.00	1.13	-13.39	-106.33	
9,106.4	12.00	261.87	8,969.4	-123.2	-1,305.1	0.00	0.00	0.00	0.00	
9,706.4	0.00	0.00	9,565.0	-132.1	-1,367.1	2.00	-2.00	0.00	180.00	
10,363.9	0.00	0.00	10,222.5	-132.1	-1,367.1	0.00	0.00	0.00	0.00	
11,113.9	90.00	179.63	10,700.0	-609.5	-1,364.0	12.00	12.00	23.95	179.63	
20,601.5	90.00	179.63	10,700.0	-10,096.9	-1,302.4	0.00	0.00	0.00	0.00	
20,731.5	90.00	179.63	10,700.0	-10,226.9	-1,301.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	
START NUDGE 2.00										
2,100.0	2.00	345.00	2,100.0	1.7	-0.5	-1.6	2.00	2.00	0.00	
2,200.0	4.00	345.00	2,199.8	6.7	-1.8	-6.5	2.00	2.00	0.00	
2,250.0	5.00	345.00	2,249.7	10.5	-2.8	-10.1	2.00	2.00	0.00	
START HOLD @ 2250.0 MD										
2,300.0	5.00	345.00	2,299.5	14.7	-3.9	-14.1	0.00	0.00	0.00	
2,400.0	5.00	345.00	2,399.1	23.2	-6.2	-22.2	0.00	0.00	0.00	
2,500.0	5.00	345.00	2,498.7	31.6	-8.5	-30.3	0.00	0.00	0.00	
2,535.0	5.00	345.00	2,533.6	34.5	-9.3	-33.1	0.00	0.00	0.00	
START DLS 2.00 TFO -106.33										
2,600.0	4.80	329.92	2,598.4	39.6	-11.3	-37.9	2.00	-0.31	-23.21	
2,700.0	5.16	307.07	2,698.0	45.9	-17.0	-43.4	2.00	0.36	-22.84	
2,800.0	6.17	289.50	2,797.5	50.4	-25.7	-46.8	2.00	1.02	-17.58	
2,900.0	7.59	277.64	2,896.8	53.1	-37.3	-48.0	2.00	1.42	-11.85	
3,000.0	9.23	269.72	2,995.7	54.0	-51.9	-47.0	2.00	1.63	-7.92	
3,100.0	10.98	264.24	3,094.2	53.0	-69.4	-43.8	2.00	1.76	-5.48	
3,156.0	12.00	261.87	3,149.1	51.6	-80.4	-41.0	2.00	1.81	-4.22	
START HOLD @ 3156.0 MD										
3,200.0	12.00	261.87	3,192.1	50.3	-89.5	-38.6	0.00	0.00	0.00	
3,300.0	12.00	261.87	3,289.9	47.4	-110.1	-33.1	0.00	0.00	0.00	
3,400.0	12.00	261.87	3,387.7	44.4	-130.7	-27.6	0.00	0.00	0.00	
3,500.0	12.00	261.87	3,485.5	41.5	-151.2	-22.1	0.00	0.00	0.00	
3,600.0	12.00	261.87	3,583.3	38.6	-171.8	-16.6	0.00	0.00	0.00	
3,700.0	12.00	261.87	3,681.2	35.6	-192.4	-11.0	0.00	0.00	0.00	
3,800.0	12.00	261.87	3,779.0	32.7	-213.0	-5.5	0.00	0.00	0.00	
3,900.0	12.00	261.87	3,876.8	29.7	-233.6	0.0	0.00	0.00	0.00	
4,000.0	12.00	261.87	3,974.6	26.8	-254.1	5.5	0.00	0.00	0.00	
4,100.0	12.00	261.87	4,072.4	23.9	-274.7	11.0	0.00	0.00	0.00	
4,200.0	12.00	261.87	4,170.2	20.9	-295.3	16.5	0.00	0.00	0.00	
4,300.0	12.00	261.87	4,268.0	18.0	-315.9	22.0	0.00	0.00	0.00	
4,400.0	12.00	261.87	4,365.9	15.1	-336.5	27.5	0.00	0.00	0.00	
4,500.0	12.00	261.87	4,463.7	12.1	-357.1	33.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,600.0	12.00	261.87	4,561.5	9.2	-377.6	38.6	0.00	0.00	0.00	
4,700.0	12.00	261.87	4,659.3	6.2	-398.2	44.1	0.00	0.00	0.00	
4,800.0	12.00	261.87	4,757.1	3.3	-418.8	49.6	0.00	0.00	0.00	
4,900.0	12.00	261.87	4,854.9	0.4	-439.4	55.1	0.00	0.00	0.00	
5,000.0	12.00	261.87	4,952.8	-2.6	-460.0	60.6	0.00	0.00	0.00	
5,100.0	12.00	261.87	5,050.6	-5.5	-480.5	66.1	0.00	0.00	0.00	
5,200.0	12.00	261.87	5,148.4	-8.5	-501.1	71.7	0.00	0.00	0.00	
5,300.0	12.00	261.87	5,246.2	-11.4	-521.7	77.2	0.00	0.00	0.00	
5,400.0	12.00	261.87	5,344.0	-14.3	-542.3	82.7	0.00	0.00	0.00	
5,500.0	12.00	261.87	5,441.8	-17.3	-562.9	88.2	0.00	0.00	0.00	
5,600.0	12.00	261.87	5,539.6	-20.2	-583.5	93.7	0.00	0.00	0.00	
5,700.0	12.00	261.87	5,637.5	-23.1	-604.0	99.2	0.00	0.00	0.00	
5,800.0	12.00	261.87	5,735.3	-26.1	-624.6	104.7	0.00	0.00	0.00	
5,900.0	12.00	261.87	5,833.1	-29.0	-645.2	110.2	0.00	0.00	0.00	
6,000.0	12.00	261.87	5,930.9	-32.0	-665.8	115.8	0.00	0.00	0.00	
6,100.0	12.00	261.87	6,028.7	-34.9	-686.4	121.3	0.00	0.00	0.00	
6,200.0	12.00	261.87	6,126.5	-37.8	-706.9	126.8	0.00	0.00	0.00	
6,300.0	12.00	261.87	6,224.3	-40.8	-727.5	132.3	0.00	0.00	0.00	
6,400.0	12.00	261.87	6,322.2	-43.7	-748.1	137.8	0.00	0.00	0.00	
6,500.0	12.00	261.87	6,420.0	-46.7	-768.7	143.3	0.00	0.00	0.00	
6,600.0	12.00	261.87	6,517.8	-49.6	-789.3	148.8	0.00	0.00	0.00	
6,700.0	12.00	261.87	6,615.6	-52.5	-809.9	154.4	0.00	0.00	0.00	
6,800.0	12.00	261.87	6,713.4	-55.5	-830.4	159.9	0.00	0.00	0.00	
6,900.0	12.00	261.87	6,811.2	-58.4	-851.0	165.4	0.00	0.00	0.00	
7,000.0	12.00	261.87	6,909.0	-61.3	-871.6	170.9	0.00	0.00	0.00	
7,100.0	12.00	261.87	7,006.9	-64.3	-892.2	176.4	0.00	0.00	0.00	
7,200.0	12.00	261.87	7,104.7	-67.2	-912.8	181.9	0.00	0.00	0.00	
7,300.0	12.00	261.87	7,202.5	-70.2	-933.3	187.4	0.00	0.00	0.00	
7,400.0	12.00	261.87	7,300.3	-73.1	-953.9	192.9	0.00	0.00	0.00	
7,500.0	12.00	261.87	7,398.1	-76.0	-974.5	198.5	0.00	0.00	0.00	
7,600.0	12.00	261.87	7,495.9	-79.0	-995.1	204.0	0.00	0.00	0.00	
7,700.0	12.00	261.87	7,593.8	-81.9	-1,015.7	209.5	0.00	0.00	0.00	
7,800.0	12.00	261.87	7,691.6	-84.9	-1,036.3	215.0	0.00	0.00	0.00	
7,900.0	12.00	261.87	7,789.4	-87.8	-1,056.8	220.5	0.00	0.00	0.00	
8,000.0	12.00	261.87	7,887.2	-90.7	-1,077.4	226.0	0.00	0.00	0.00	
8,100.0	12.00	261.87	7,985.0	-93.7	-1,098.0	231.5	0.00	0.00	0.00	
8,200.0	12.00	261.87	8,082.8	-96.6	-1,118.6	237.1	0.00	0.00	0.00	
8,300.0	12.00	261.87	8,180.6	-99.5	-1,139.2	242.6	0.00	0.00	0.00	
8,400.0	12.00	261.87	8,278.5	-102.5	-1,159.7	248.1	0.00	0.00	0.00	
8,500.0	12.00	261.87	8,376.3	-105.4	-1,180.3	253.6	0.00	0.00	0.00	
8,600.0	12.00	261.87	8,474.1	-108.4	-1,200.9	259.1	0.00	0.00	0.00	
8,700.0	12.00	261.87	8,571.9	-111.3	-1,221.5	264.6	0.00	0.00	0.00	
8,800.0	12.00	261.87	8,669.7	-114.2	-1,242.1	270.1	0.00	0.00	0.00	
8,900.0	12.00	261.87	8,767.5	-117.2	-1,262.7	275.6	0.00	0.00	0.00	
9,000.0	12.00	261.87	8,865.3	-120.1	-1,283.2	281.2	0.00	0.00	0.00	
9,106.4	12.00	261.87	8,969.4	-123.2	-1,305.1	287.0	0.00	0.00	0.00	
START DROP -2.00										
9,200.0	10.13	261.87	9,061.3	-125.8	-1,322.9	291.8	2.00	-2.00	0.00	
9,300.0	8.13	261.87	9,160.0	-128.0	-1,338.6	296.0	2.00	-2.00	0.00	
9,400.0	6.13	261.87	9,259.2	-129.8	-1,350.9	299.3	2.00	-2.00	0.00	
9,500.0	4.13	261.87	9,358.8	-131.0	-1,359.7	301.7	2.00	-2.00	0.00	
9,600.0	2.13	261.87	9,458.7	-131.8	-1,365.1	303.1	2.00	-2.00	0.00	

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,706.4	0.00	0.00	9,565.0	-132.1	-1,367.1	303.6	2.00	-2.00	0.00
START HOLD @ 9706.4 MD									
9,800.0	0.00	0.00	9,658.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,758.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,858.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
10,100.0	0.00	0.00	9,958.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,058.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,158.6	-132.1	-1,367.1	303.6	0.00	0.00	0.00
10,363.9	0.00	0.00	10,222.5	-132.1	-1,367.1	303.6	0.00	0.00	0.00
START DLS 12.00 TFO 179.63									
10,375.0	1.33	179.63	10,233.6	-132.2	-1,367.1	303.8	12.00	12.00	0.00
10,400.0	4.33	179.63	10,258.6	-133.5	-1,367.1	305.0	12.00	12.00	0.00
10,425.0	7.33	179.63	10,283.5	-136.0	-1,367.1	307.5	12.00	12.00	0.00
10,450.0	10.33	179.63	10,308.2	-139.8	-1,367.0	311.3	12.00	12.00	0.00
10,475.0	13.33	179.63	10,332.6	-145.0	-1,367.0	316.4	12.00	12.00	0.00
10,500.0	16.33	179.63	10,356.8	-151.4	-1,367.0	322.7	12.00	12.00	0.00
10,525.0	19.33	179.63	10,380.6	-159.0	-1,366.9	330.3	12.00	12.00	0.00
10,550.0	22.33	179.63	10,404.0	-167.9	-1,366.9	339.1	12.00	12.00	0.00
10,575.0	25.33	179.63	10,426.8	-178.0	-1,366.8	349.1	12.00	12.00	0.00
10,600.0	28.33	179.63	10,449.1	-189.3	-1,366.7	360.3	12.00	12.00	0.00
10,625.0	31.33	179.63	10,470.8	-201.7	-1,366.6	372.6	12.00	12.00	0.00
10,650.0	34.33	179.63	10,491.8	-215.3	-1,366.6	386.1	12.00	12.00	0.00
10,675.0	37.33	179.63	10,512.1	-229.9	-1,366.5	400.6	12.00	12.00	0.00
10,700.0	40.33	179.63	10,531.6	-245.6	-1,366.4	416.1	12.00	12.00	0.00
10,725.0	43.33	179.63	10,550.2	-262.3	-1,366.3	432.6	12.00	12.00	0.00
10,750.0	46.33	179.63	10,567.9	-279.9	-1,366.1	450.1	12.00	12.00	0.00
10,775.0	49.33	179.63	10,584.7	-298.4	-1,366.0	468.5	12.00	12.00	0.00
10,800.0	52.33	179.63	10,600.5	-317.8	-1,365.9	487.7	12.00	12.00	0.00
10,825.0	55.33	179.63	10,615.2	-338.0	-1,365.8	507.7	12.00	12.00	0.00
10,850.0	58.33	179.63	10,628.9	-358.9	-1,365.6	528.4	12.00	12.00	0.00
10,875.0	61.33	179.63	10,641.5	-380.5	-1,365.5	549.9	12.00	12.00	0.00
10,900.0	64.33	179.63	10,652.9	-402.7	-1,365.3	571.9	12.00	12.00	0.00
10,925.0	67.33	179.63	10,663.1	-425.5	-1,365.2	594.5	12.00	12.00	0.00
10,950.0	70.33	179.63	10,672.1	-448.9	-1,365.0	617.6	12.00	12.00	0.00
10,975.0	73.33	179.63	10,679.9	-472.6	-1,364.9	641.1	12.00	12.00	0.00
11,000.0	76.33	179.63	10,686.5	-496.7	-1,364.7	665.1	12.00	12.00	0.00
11,025.0	79.33	179.63	10,691.7	-521.2	-1,364.6	689.3	12.00	12.00	0.00
11,050.0	82.33	179.63	10,695.7	-545.8	-1,364.4	713.7	12.00	12.00	0.00
11,075.0	85.33	179.63	10,698.4	-570.7	-1,364.3	738.4	12.00	12.00	0.00
11,100.0	88.33	179.63	10,699.8	-595.7	-1,364.1	763.1	12.00	12.00	0.00
11,113.9	90.00	179.63	10,700.0	-609.5	-1,364.0	776.9	12.00	12.00	0.00
START HOLD @ 11113.9 MD									
11,200.0	90.00	179.63	10,700.0	-695.7	-1,363.4	862.2	0.00	0.00	0.00
11,300.0	90.00	179.63	10,700.0	-795.7	-1,362.8	961.3	0.00	0.00	0.00
11,400.0	90.00	179.63	10,700.0	-895.7	-1,362.1	1,060.5	0.00	0.00	0.00
11,500.0	90.00	179.63	10,700.0	-995.6	-1,361.5	1,159.6	0.00	0.00	0.00
11,600.0	90.00	179.63	10,700.0	-1,095.6	-1,360.8	1,258.7	0.00	0.00	0.00
11,700.0	90.00	179.63	10,700.0	-1,195.6	-1,360.2	1,357.8	0.00	0.00	0.00
11,800.0	90.00	179.63	10,700.0	-1,295.6	-1,359.5	1,456.9	0.00	0.00	0.00
11,900.0	90.00	179.63	10,700.0	-1,395.6	-1,358.9	1,556.0	0.00	0.00	0.00
12,000.0	90.00	179.63	10,700.0	-1,495.6	-1,358.2	1,655.1	0.00	0.00	0.00
12,100.0	90.00	179.63	10,700.0	-1,595.6	-1,357.6	1,754.3	0.00	0.00	0.00
12,200.0	90.00	179.63	10,700.0	-1,695.6	-1,356.9	1,853.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	90.00	179.63	10,700.0	-1,795.6	-1,356.3	1,952.5	0.00	0.00	0.00
12,400.0	90.00	179.63	10,700.0	-1,895.6	-1,355.6	2,051.6	0.00	0.00	0.00
12,500.0	90.00	179.63	10,700.0	-1,995.6	-1,355.0	2,150.7	0.00	0.00	0.00
12,600.0	90.00	179.63	10,700.0	-2,095.6	-1,354.4	2,249.8	0.00	0.00	0.00
12,700.0	90.00	179.63	10,700.0	-2,195.6	-1,353.7	2,349.0	0.00	0.00	0.00
12,800.0	90.00	179.63	10,700.0	-2,295.6	-1,353.1	2,448.1	0.00	0.00	0.00
12,900.0	90.00	179.63	10,700.0	-2,395.6	-1,352.4	2,547.2	0.00	0.00	0.00
13,000.0	90.00	179.63	10,700.0	-2,495.6	-1,351.8	2,646.3	0.00	0.00	0.00
13,100.0	90.00	179.63	10,700.0	-2,595.6	-1,351.1	2,745.4	0.00	0.00	0.00
13,200.0	90.00	179.63	10,700.0	-2,695.6	-1,350.5	2,844.5	0.00	0.00	0.00
13,300.0	90.00	179.63	10,700.0	-2,795.6	-1,349.8	2,943.7	0.00	0.00	0.00
13,400.0	90.00	179.63	10,700.0	-2,895.6	-1,349.2	3,042.8	0.00	0.00	0.00
13,500.0	90.00	179.63	10,700.0	-2,995.6	-1,348.5	3,141.9	0.00	0.00	0.00
13,600.0	90.00	179.63	10,700.0	-3,095.6	-1,347.9	3,241.0	0.00	0.00	0.00
13,700.0	90.00	179.63	10,700.0	-3,195.6	-1,347.2	3,340.1	0.00	0.00	0.00
13,800.0	90.00	179.63	10,700.0	-3,295.6	-1,346.6	3,439.2	0.00	0.00	0.00
13,900.0	90.00	179.63	10,700.0	-3,395.6	-1,345.9	3,538.3	0.00	0.00	0.00
14,000.0	90.00	179.63	10,700.0	-3,495.6	-1,345.3	3,637.5	0.00	0.00	0.00
14,100.0	90.00	179.63	10,700.0	-3,595.6	-1,344.6	3,736.6	0.00	0.00	0.00
14,200.0	90.00	179.63	10,700.0	-3,695.6	-1,344.0	3,835.7	0.00	0.00	0.00
14,300.0	90.00	179.63	10,700.0	-3,795.6	-1,343.3	3,934.8	0.00	0.00	0.00
14,400.0	90.00	179.63	10,700.0	-3,895.6	-1,342.7	4,033.9	0.00	0.00	0.00
14,500.0	90.00	179.63	10,700.0	-3,995.6	-1,342.0	4,133.0	0.00	0.00	0.00
14,600.0	90.00	179.63	10,700.0	-4,095.6	-1,341.4	4,232.2	0.00	0.00	0.00
14,700.0	90.00	179.63	10,700.0	-4,195.6	-1,340.7	4,331.3	0.00	0.00	0.00
14,800.0	90.00	179.63	10,700.0	-4,295.6	-1,340.1	4,430.4	0.00	0.00	0.00
14,900.0	90.00	179.63	10,700.0	-4,395.6	-1,339.4	4,529.5	0.00	0.00	0.00
15,000.0	90.00	179.63	10,700.0	-4,495.6	-1,338.8	4,628.6	0.00	0.00	0.00
15,100.0	90.00	179.63	10,700.0	-4,595.6	-1,338.1	4,727.7	0.00	0.00	0.00
15,200.0	90.00	179.63	10,700.0	-4,695.6	-1,337.5	4,826.9	0.00	0.00	0.00
15,300.0	90.00	179.63	10,700.0	-4,795.6	-1,336.8	4,926.0	0.00	0.00	0.00
15,400.0	90.00	179.63	10,700.0	-4,895.6	-1,336.2	5,025.1	0.00	0.00	0.00
15,500.0	90.00	179.63	10,700.0	-4,995.6	-1,335.5	5,124.2	0.00	0.00	0.00
15,600.0	90.00	179.63	10,700.0	-5,095.6	-1,334.9	5,223.3	0.00	0.00	0.00
15,700.0	90.00	179.63	10,700.0	-5,195.6	-1,334.2	5,322.4	0.00	0.00	0.00
15,800.0	90.00	179.63	10,700.0	-5,295.6	-1,333.6	5,421.5	0.00	0.00	0.00
15,900.0	90.00	179.63	10,700.0	-5,395.6	-1,332.9	5,520.7	0.00	0.00	0.00
16,000.0	90.00	179.63	10,700.0	-5,495.6	-1,332.3	5,619.8	0.00	0.00	0.00
16,100.0	90.00	179.63	10,700.0	-5,595.6	-1,331.6	5,718.9	0.00	0.00	0.00
16,200.0	90.00	179.63	10,700.0	-5,695.5	-1,331.0	5,818.0	0.00	0.00	0.00
16,300.0	90.00	179.63	10,700.0	-5,795.5	-1,330.3	5,917.1	0.00	0.00	0.00
16,400.0	90.00	179.63	10,700.0	-5,895.5	-1,329.7	6,016.2	0.00	0.00	0.00
16,500.0	90.00	179.63	10,700.0	-5,995.5	-1,329.0	6,115.4	0.00	0.00	0.00
16,600.0	90.00	179.63	10,700.0	-6,095.5	-1,328.4	6,214.5	0.00	0.00	0.00
16,700.0	90.00	179.63	10,700.0	-6,195.5	-1,327.7	6,313.6	0.00	0.00	0.00
16,800.0	90.00	179.63	10,700.0	-6,295.5	-1,327.1	6,412.7	0.00	0.00	0.00
16,900.0	90.00	179.63	10,700.0	-6,395.5	-1,326.4	6,511.8	0.00	0.00	0.00
17,000.0	90.00	179.63	10,700.0	-6,495.5	-1,325.8	6,610.9	0.00	0.00	0.00
17,100.0	90.00	179.63	10,700.0	-6,595.5	-1,325.1	6,710.1	0.00	0.00	0.00
17,200.0	90.00	179.63	10,700.0	-6,695.5	-1,324.5	6,809.2	0.00	0.00	0.00
17,300.0	90.00	179.63	10,700.0	-6,795.5	-1,323.8	6,908.3	0.00	0.00	0.00
17,400.0	90.00	179.63	10,700.0	-6,895.5	-1,323.2	7,007.4	0.00	0.00	0.00
17,500.0	90.00	179.63	10,700.0	-6,995.5	-1,322.5	7,106.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,600.0	90.00	179.63	10,700.0	-7,095.5	-1,321.9	7,205.6	0.00	0.00	0.00	
17,700.0	90.00	179.63	10,700.0	-7,195.5	-1,321.2	7,304.7	0.00	0.00	0.00	
17,800.0	90.00	179.63	10,700.0	-7,295.5	-1,320.6	7,403.9	0.00	0.00	0.00	
17,900.0	90.00	179.63	10,700.0	-7,395.5	-1,319.9	7,503.0	0.00	0.00	0.00	
18,000.0	90.00	179.63	10,700.0	-7,495.5	-1,319.3	7,602.1	0.00	0.00	0.00	
18,100.0	90.00	179.63	10,700.0	-7,595.5	-1,318.6	7,701.2	0.00	0.00	0.00	
18,200.0	90.00	179.63	10,700.0	-7,695.5	-1,318.0	7,800.3	0.00	0.00	0.00	
18,300.0	90.00	179.63	10,700.0	-7,795.5	-1,317.3	7,899.4	0.00	0.00	0.00	
18,400.0	90.00	179.63	10,700.0	-7,895.5	-1,316.7	7,998.6	0.00	0.00	0.00	
18,500.0	90.00	179.63	10,700.0	-7,995.5	-1,316.0	8,097.7	0.00	0.00	0.00	
18,600.0	90.00	179.63	10,700.0	-8,095.5	-1,315.4	8,196.8	0.00	0.00	0.00	
18,700.0	90.00	179.63	10,700.0	-8,195.5	-1,314.7	8,295.9	0.00	0.00	0.00	
18,800.0	90.00	179.63	10,700.0	-8,295.5	-1,314.1	8,395.0	0.00	0.00	0.00	
18,900.0	90.00	179.63	10,700.0	-8,395.5	-1,313.4	8,494.1	0.00	0.00	0.00	
19,000.0	90.00	179.63	10,700.0	-8,495.5	-1,312.8	8,593.3	0.00	0.00	0.00	
19,100.0	90.00	179.63	10,700.0	-8,595.5	-1,312.1	8,692.4	0.00	0.00	0.00	
19,200.0	90.00	179.63	10,700.0	-8,695.5	-1,311.5	8,791.5	0.00	0.00	0.00	
19,300.0	90.00	179.63	10,700.0	-8,795.5	-1,310.8	8,890.6	0.00	0.00	0.00	
19,400.0	90.00	179.63	10,700.0	-8,895.5	-1,310.2	8,989.7	0.00	0.00	0.00	
19,500.0	90.00	179.63	10,700.0	-8,995.5	-1,309.6	9,088.8	0.00	0.00	0.00	
19,600.0	90.00	179.63	10,700.0	-9,095.5	-1,308.9	9,187.9	0.00	0.00	0.00	
19,700.0	90.00	179.63	10,700.0	-9,195.5	-1,308.3	9,287.1	0.00	0.00	0.00	
19,800.0	90.00	179.63	10,700.0	-9,295.5	-1,307.6	9,386.2	0.00	0.00	0.00	
19,900.0	90.00	179.63	10,700.0	-9,395.5	-1,307.0	9,485.3	0.00	0.00	0.00	
20,000.0	90.00	179.63	10,700.0	-9,495.5	-1,306.3	9,584.4	0.00	0.00	0.00	
20,100.0	90.00	179.63	10,700.0	-9,595.5	-1,305.7	9,683.5	0.00	0.00	0.00	
20,200.0	90.00	179.63	10,700.0	-9,695.5	-1,305.0	9,782.6	0.00	0.00	0.00	
20,300.0	90.00	179.63	10,700.0	-9,795.5	-1,304.4	9,881.8	0.00	0.00	0.00	
20,400.0	90.00	179.63	10,700.0	-9,895.5	-1,303.7	9,980.9	0.00	0.00	0.00	
20,500.0	90.00	179.63	10,700.0	-9,995.5	-1,303.1	10,080.0	0.00	0.00	0.00	
20,601.5	90.00	179.63	10,700.0	-10,096.9	-1,302.4	10,180.6	0.00	0.00	0.00	
START HOLD @ 20601.5 MD										
20,700.0	90.00	179.63	10,700.0	-10,195.5	-1,301.8	10,278.2	0.00	0.00	0.00	
20,731.5	90.00	179.63	10,700.0	-10,226.9	-1,301.6	10,309.4	0.00	0.00	0.00	
TD @ 20731.5 MD										

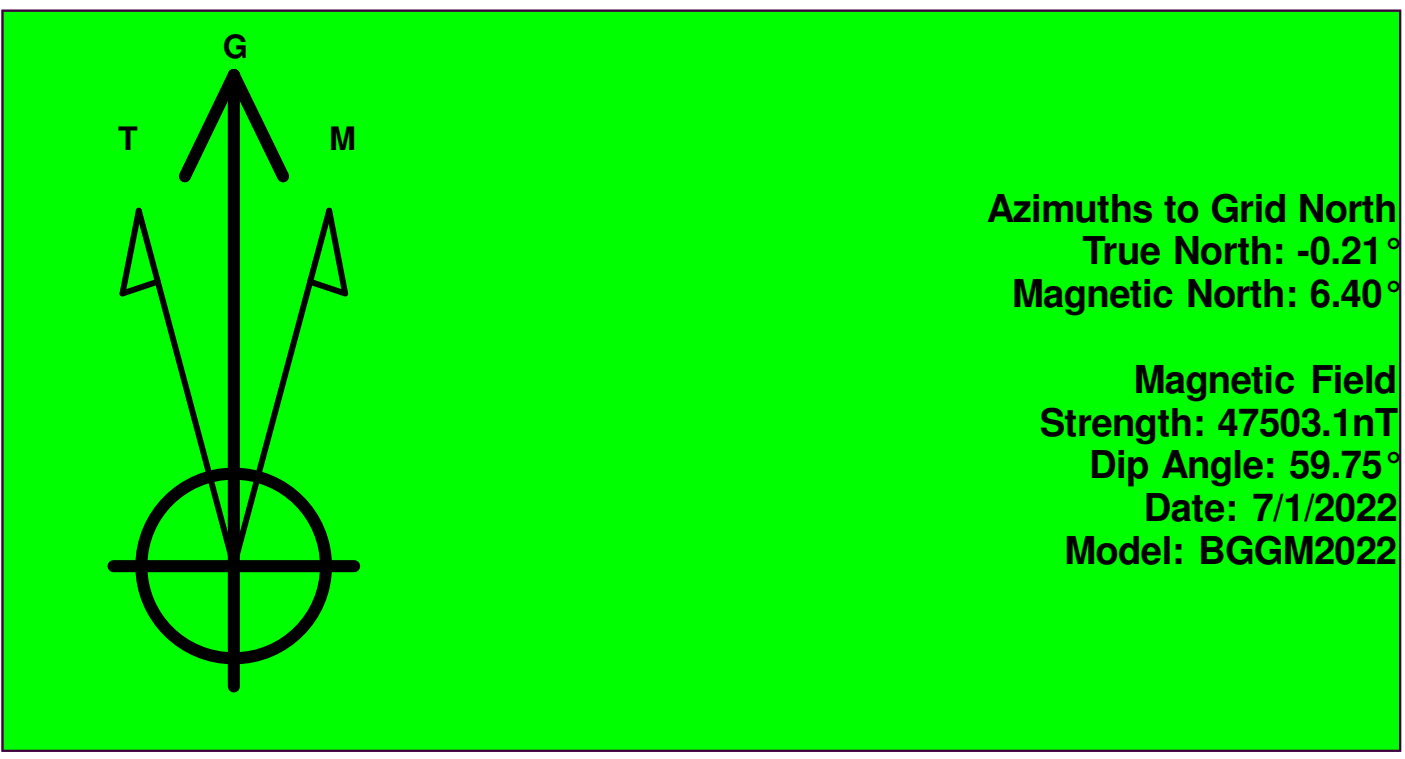
ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #803Y
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3148ft @ 3180.0usft
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	North Reference:	Grid
Well:	CABO WABO FEDERAL COM #803Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
VT (CABO WABO FED (	0.00	0.00	10,222.5	-132.1	-1,367.1	408,242.30	622,728.39	32° 7' 18.314 N	103° 56' 12.859 W
- plan hits target center									
- Point									
PBHL (CABO WABO FE	0.00	359.63	10,700.0	-10,226.9	-1,301.5	398,147.48	622,793.94	32° 5' 38.410 N	103° 56' 12.528 W
- plan hits target center									
- Rectangle (sides W100.0 H10,066.0 D20.0)									
FTP (CABO WABO FED	0.00	0.00	10,700.0	-132.1	-1,367.2	408,242.27	622,728.33	32° 7' 18.314 N	103° 56' 12.859 W
- plan misses target center by 197.8usft at 10739.5usft MD (10560.6 TVD, -272.4 N, -1366.2 E)									
- Circle (radius 50.0)									
LTP (CABO WABO FED	0.00	0.00	10,700.0	-10,096.9	-1,302.4	398,277.47	622,793.09	32° 5' 39.696 N	103° 56' 12.532 W
- plan hits target center									
- Point									

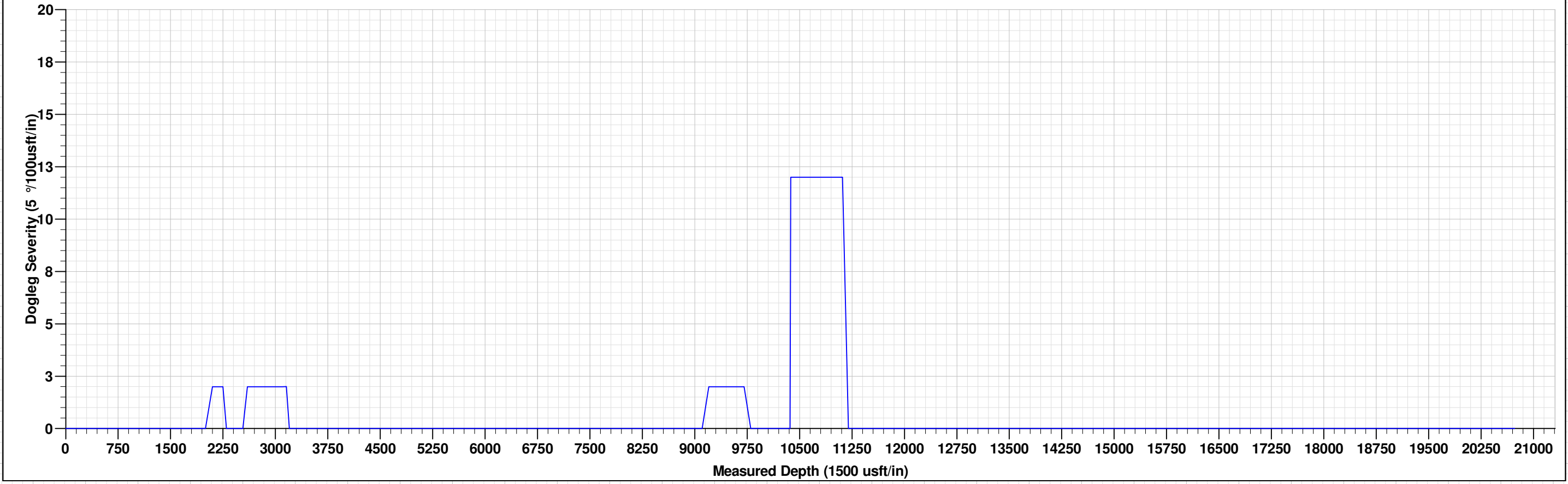
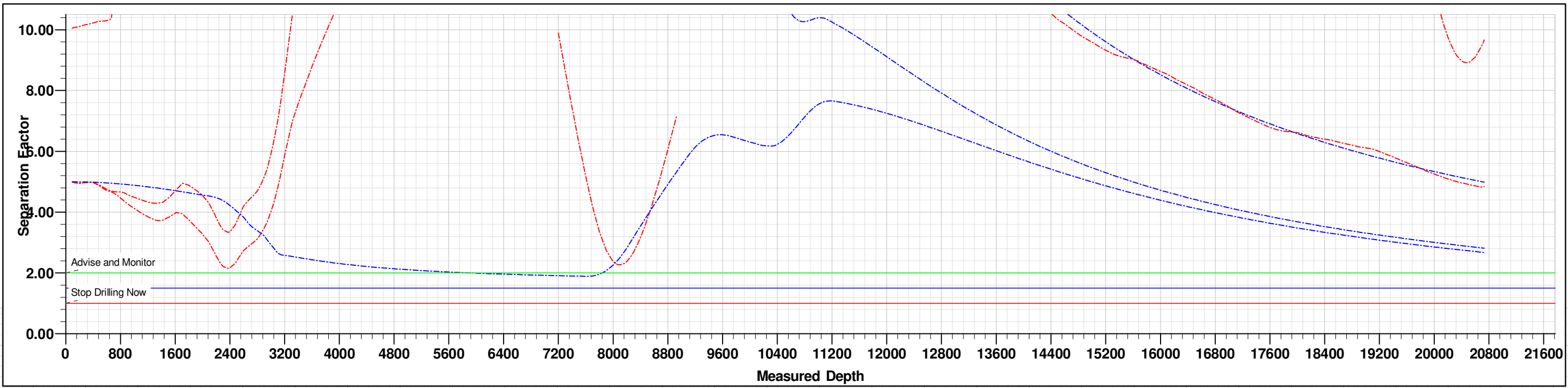
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
2,000.0	2,000.0	0.0	0.0	START NUDGE 2.00
2,250.0	2,249.7	10.5	-2.8	START HOLD @ 2250.0 MD
2,535.0	2,533.6	34.5	-9.3	START DLS 2.00 TFO -106.33
3,156.0	3,149.1	51.6	-80.4	START HOLD @ 3156.0 MD
9,106.4	8,969.4	-123.2	-1,305.1	START DROP -2.00
9,706.4	9,565.0	-132.1	-1,367.1	START HOLD @ 9706.4 MD
10,363.9	10,222.5	-132.1	-1,367.1	START DLS 12.00 TFO 179.63
11,113.9	10,700.0	-609.5	-1,364.0	START HOLD @ 11113.9 MD
20,601.5	10,700.0	-10,096.9	-1,302.4	START HOLD @ 20601.5 MD
20,731.5	10,700.0	-10,226.9	-1,301.6	TD @ 20731.5 MD



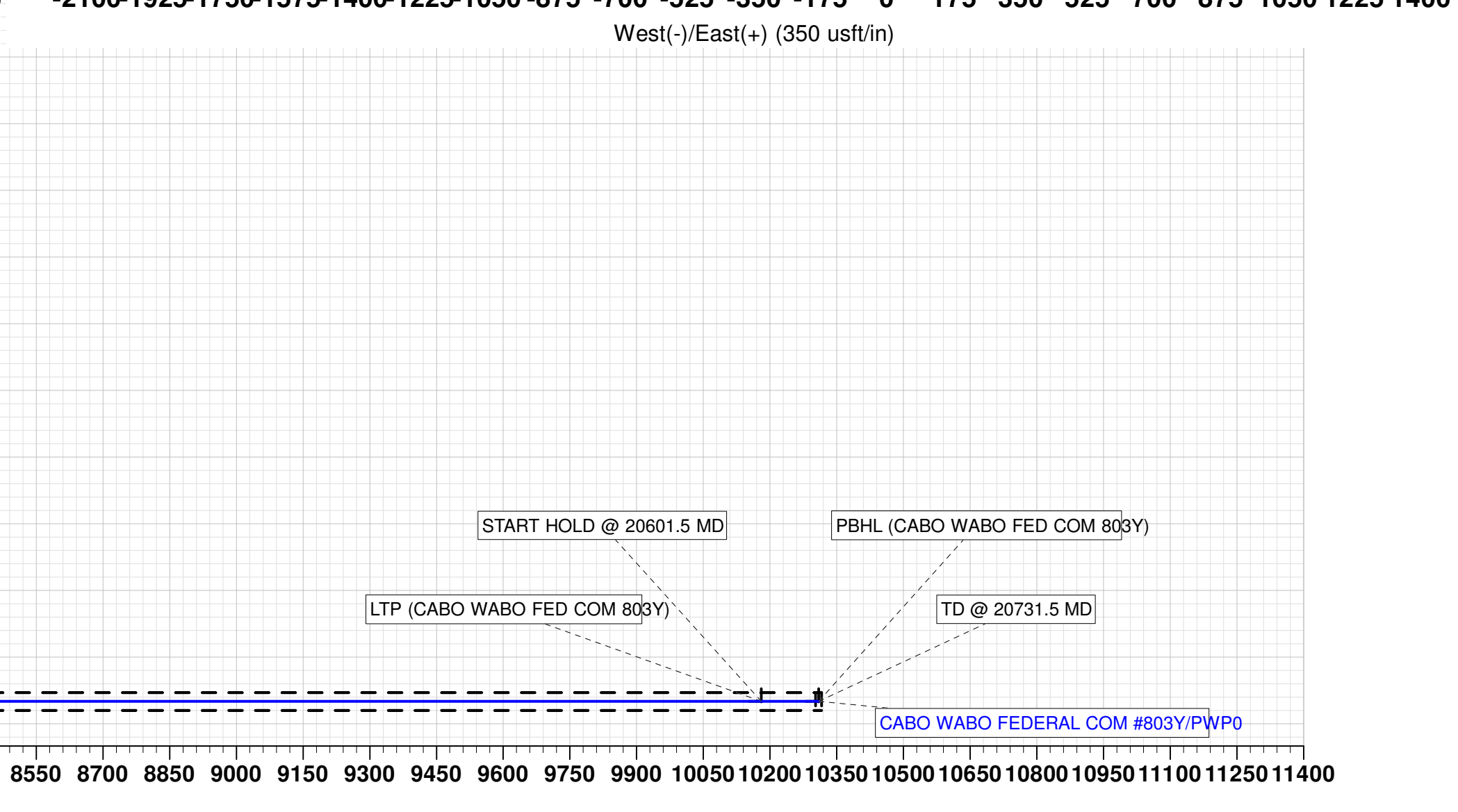
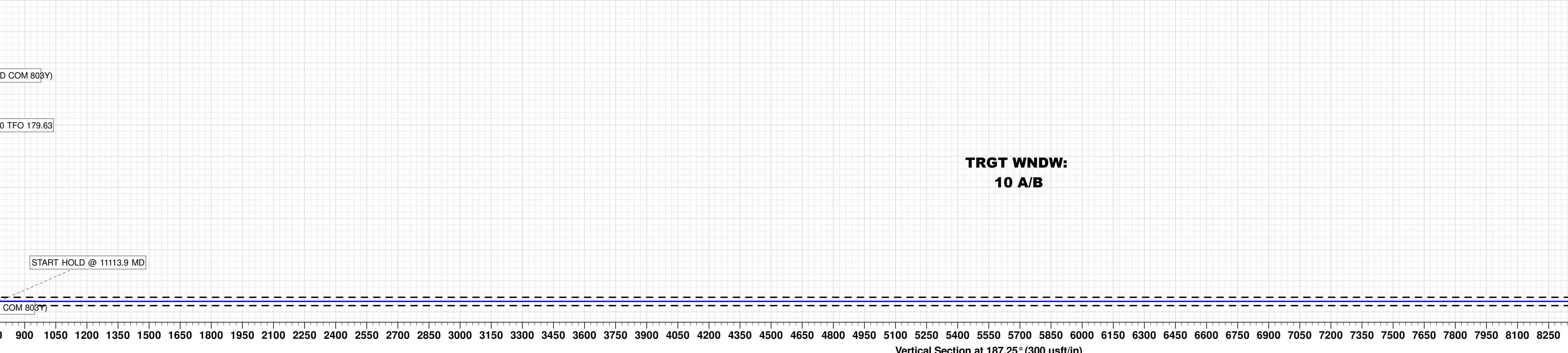
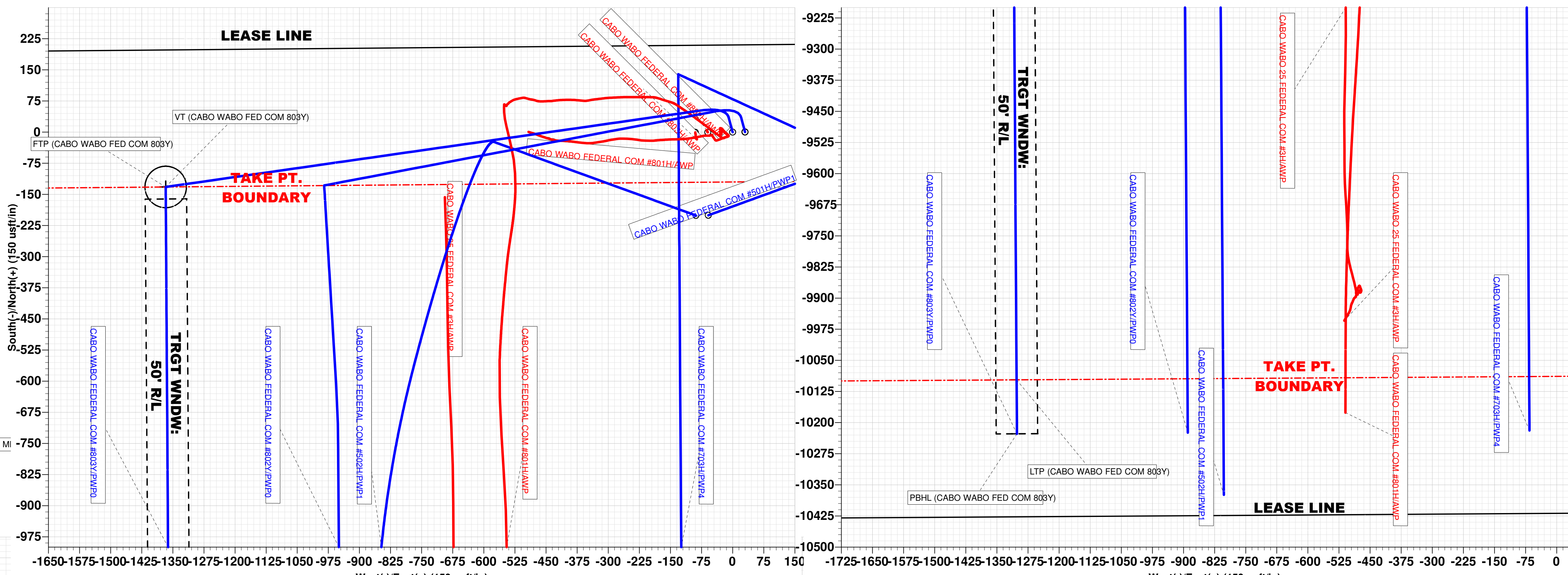
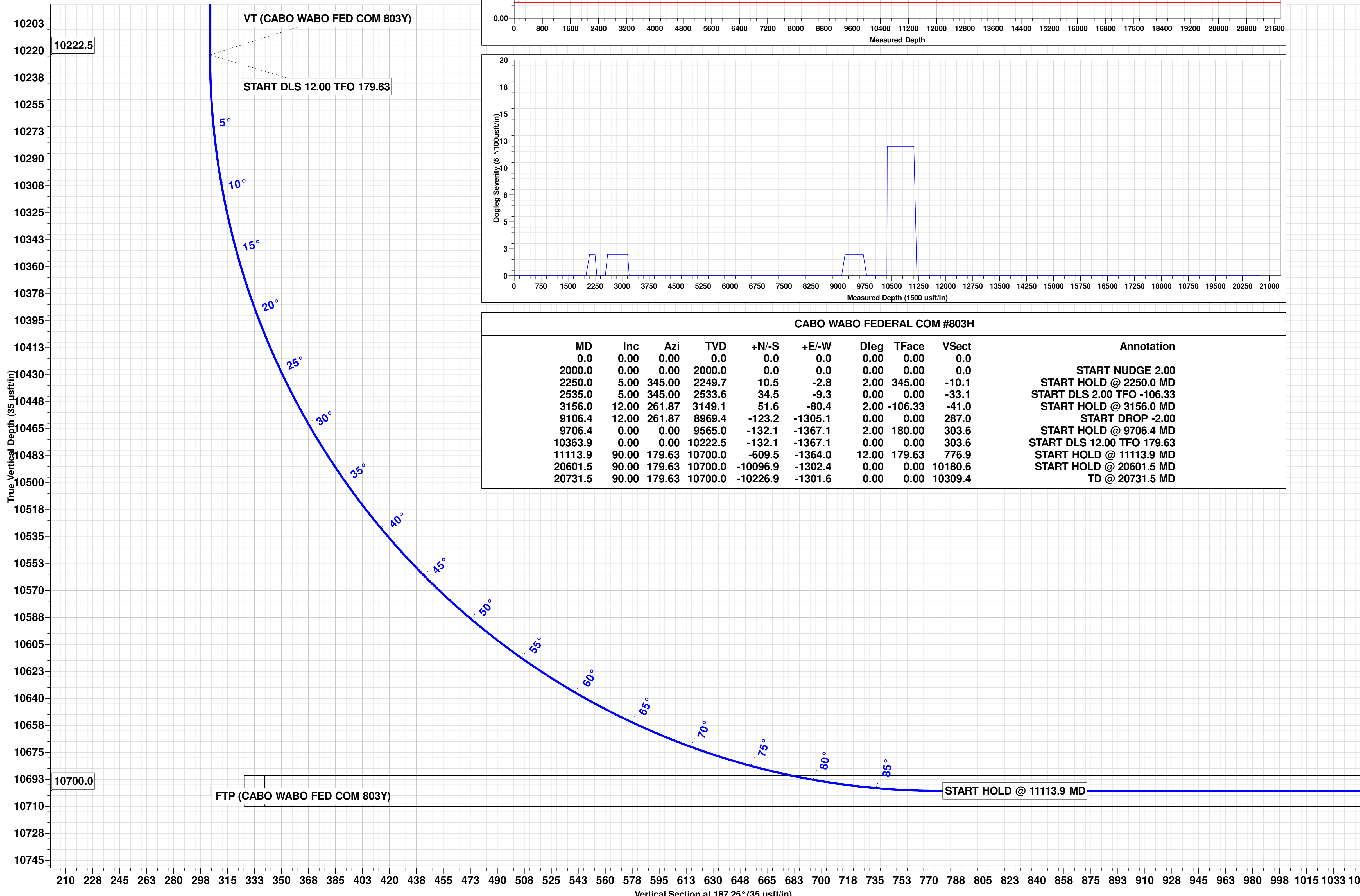
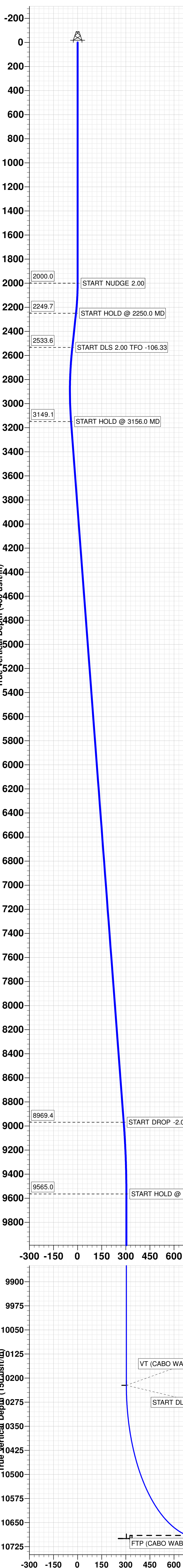
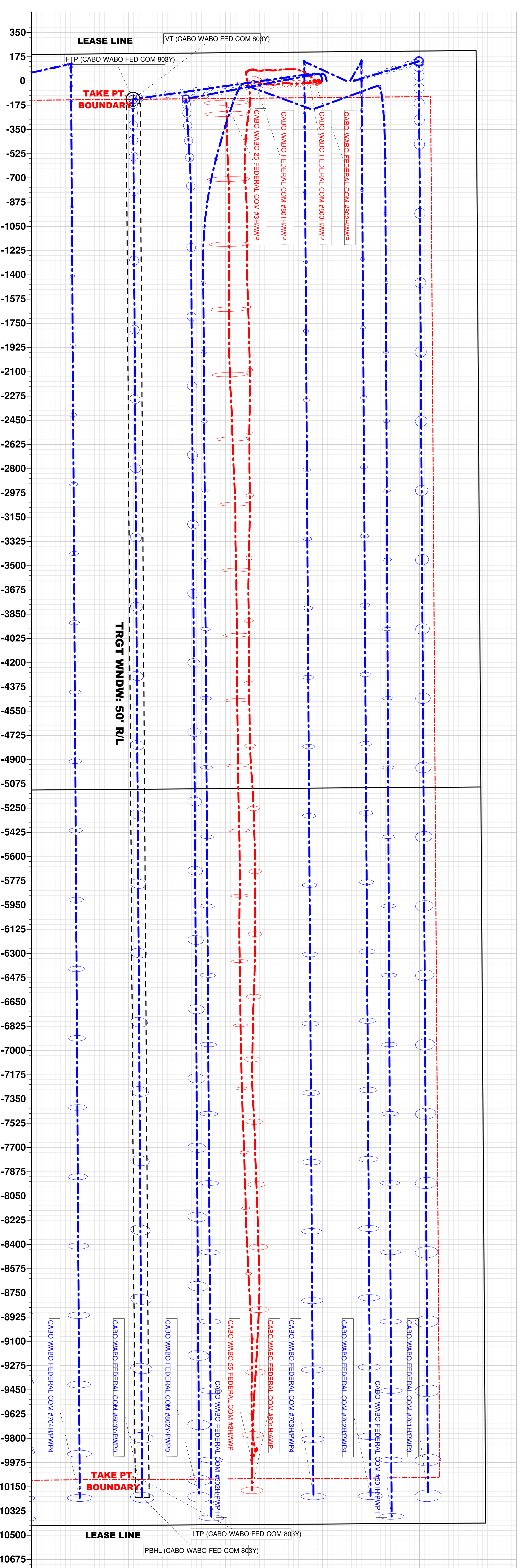
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FEDERAL COM #803H
Wellbore: QWB
Design: PWP0
GL: 3148.0
RKB 32ft + GL 3148ft @ 3180.0usft

WELL DETAILS: CABO WABO FEDERAL COM #803Y					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408374.39	624095.49	32° 7' 19.571 N	103° 55' 56.956 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
VT (CABO WABO FED COM 803Y)	10222.5	-132.1	-1367.1	408242.30	622728.39
FTP (CABO WABO FED COM 803Y)	10700.0	-132.1	-1367.2	408242.27	622728.33
LTP (CABO WABO FED COM 803Y)	10700.0	-10096.9	-1302.4	398277.47	622793.09
PBHL (CABO WABO FED COM 803Y)	10700.0	-10226.9	-1301.6	398147.48	622793.94



CABO WABO FEDERAL 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	START NUDDGE 2.00
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	START HOLD @ 2250.0 MD
2250.0	5.00	345.00	2249.7	10.5	-2.8	2.00	345.00	-10.1	START DLS 2.00 TFO -106.33
2535.0	5.00	345.00	2533.6	34.5	-9.3	0.00	0.00	-33.1	START HOLD @ 3156.0 MD
3156.0	12.00	261.87	3149.1	51.6	-80.4	2.00	-106.33	-41.0	START DROP -2.00
9106.4	12.00	261.87	8969.4	-123.2	-1305.1	0.00	0.00	287.0	START HOLD @ 9706.4 MD
9706.4	0.00	0.00	9565.0	-132.1	-1367.1	2.00	180.00	303.6	START DLS 12.00 TFO 179.63
10363.9	0.00	0.00	10222.5	-132.1	-1367.1	0.00	0.00	303.6	START HOLD @ 11113.9 MD
11113.9	90.00	179.63	10700.0	-609.5	-1364.0	12.00	179.63	775.9	START HOLD @ 20601.5 MD
20601.5	90.00	179.63	10700.0	-10096.9	-1302.4	0.00	0.00	10180.6	TD @ 20731.5 MD
20731.5	90.00	179.63	10700.0	-10226.9	-1301.6	0.00	0.00	10309.4	



TRGT WNDW:
10 A/B

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

CONDITIONS

Action 125130

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 125130
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
kpickford	• NSL Will require an administrative order for non-standard location prior to placing the well on production	7/13/2022
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water	7/13/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	7/13/2022