Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM120895

6. If Indian, Allottee or Tribe Name

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

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

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

2. Name of Operator COG PRODUCTION LLC

9. API Well No. 3001547755

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

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

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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

Title Regulatory Advisor

Signature Stan Wagner

Date 07/08/2022

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

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)

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

4 Property Code	5 Property Name	6 Well Number
329794	CABO WABO FEDERAL COM	803H

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

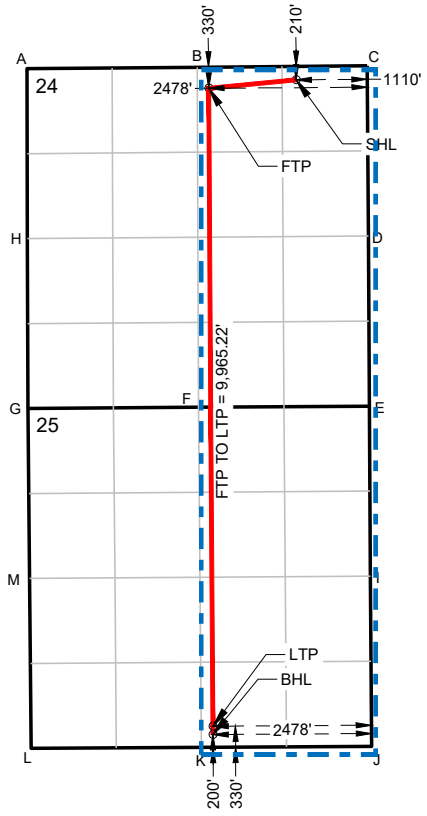
11 Bottom Hole Location If Different From Surface

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
640		Com	

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.

16



CORNER DATA
NEW MEXICO EAST - NAD 83

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

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=665280.46 LAT.= 32.12222715° N
Y=408432.55 LONG.= 103.93297133° W
210' FNL, 1110' FEL - SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=663913.30 LAT.= 32.12187785° N
Y=408300.43 LONG.= 103.93738904° W
330' FNL, 2478' FEL - SECTION 24

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=663979.19 LAT.= 32.09412712° N
Y=398205.43 LONG.= 103.93729601° W
200' FSL, 2478' FEL - SECTION 25

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=663978.33 LAT.= 32.09448447° N
Y=398335.43 LONG.= 103.93729723° W
330' FSL, 2478' FEL - SECTION 25

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner — 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:

CHARLES L. JARAMILLO
NEW MEXICO
25490
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	Grade	Conn.	SF	SF Burst	SF	SF
	From	To		(lbs)			Collapse		Body	Joint
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 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Conocophillips Company - Cabo Wabo Federal Com #803H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	536	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter. Stage 1	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%
1st 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.

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

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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 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 covergent 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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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

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 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

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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

TD Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,200.0	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 covergent 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-VESSI_INFLEX_GYRO, 7336-MWD

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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-VESSI_INFLEX_GYRO **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,900.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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: 0-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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 — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent 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

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

ConocoPhillips

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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 #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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

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Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	**MD Reference:**	RKB 32ft + GL 3148ft @ 3180.0usft
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Reference Well:	CABO WABO FEDERAL COM #803Y	**Survey Calculation Method:**	Minimum Curvature
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Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

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Offset Site Error: 3.0 usft

Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	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	

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,600.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,165.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

Rule Assigned:

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	5,657.6	5,656.3	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,315.0	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	82.58	-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	82.39	-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	82.35	-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	82.16	-8.1	-466.5	911.8	848.4	63.31	14.401	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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	

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	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	

Rule Assigned:

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CABO WABO 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,125.0	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	10,058.4	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	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 covergent point, SF - min separation factor, ES - min ellipse separation

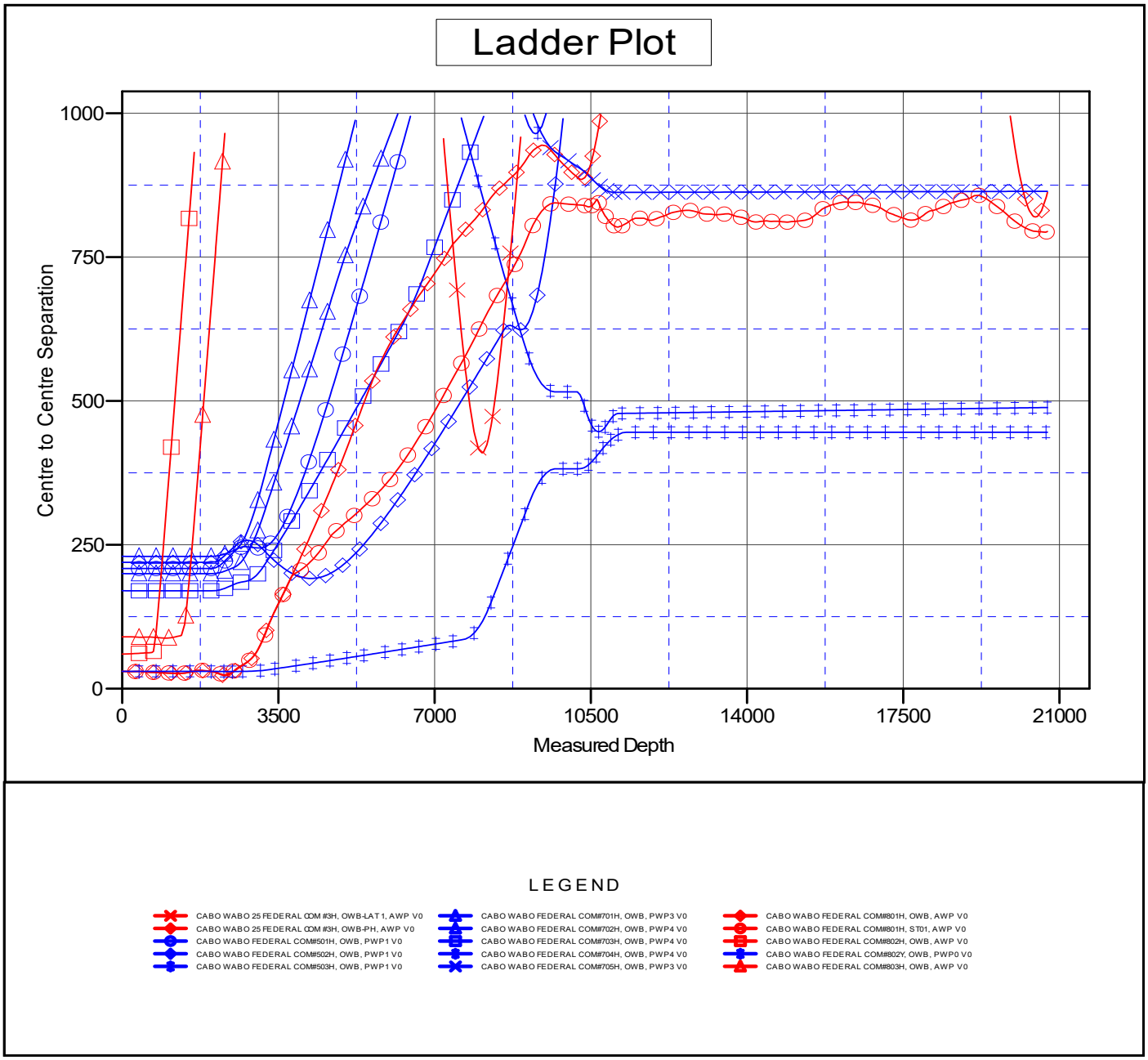
ConocoPhillips

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°



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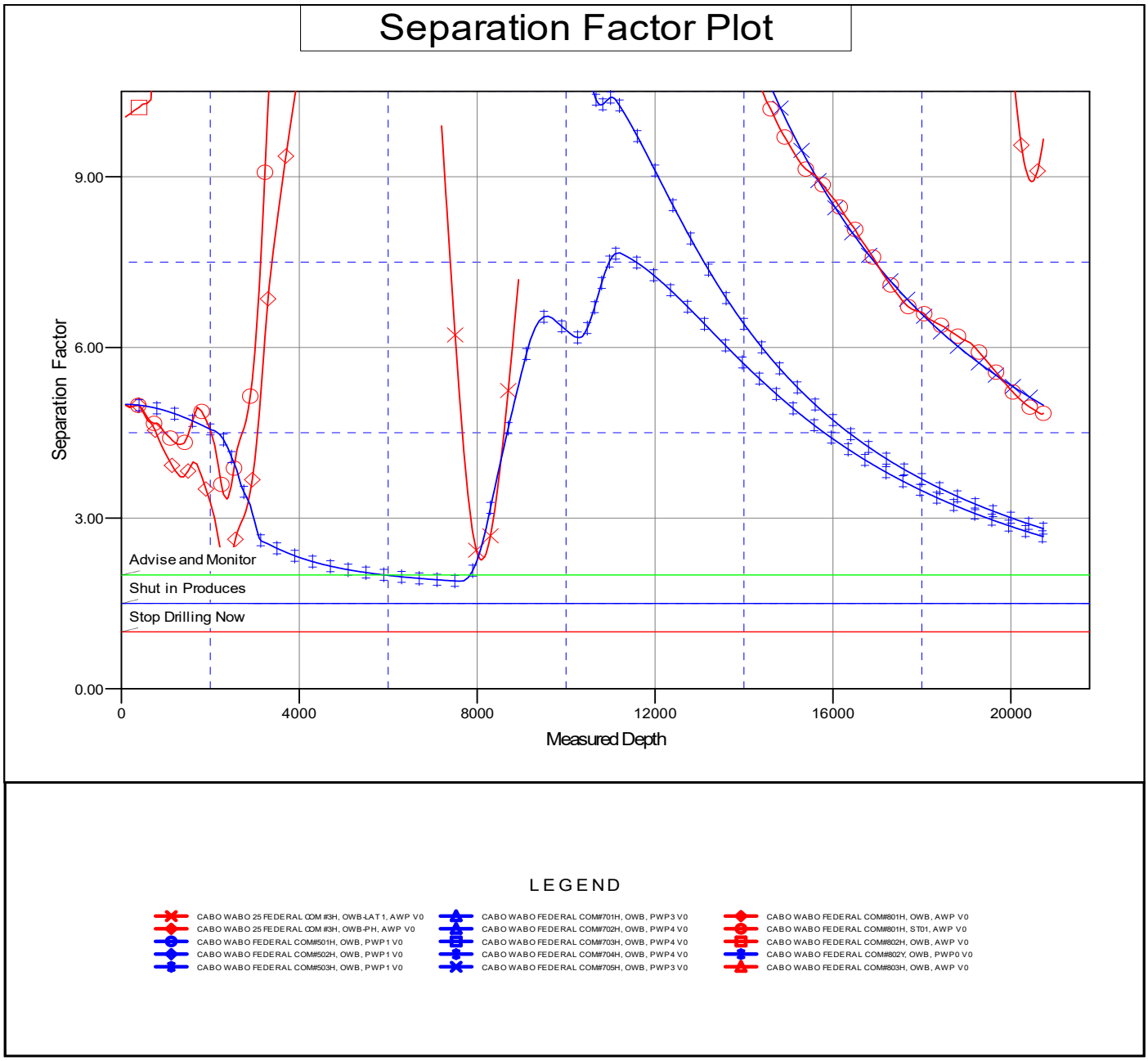
Anticollision Report

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°



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	**Latitude:**	32° 7' 21.520 N
From:	Map	**Easting:**	619,848.48 usft	**Longitude:**	103° 56' 46.334 W
Position Uncertainty:	3.0 usft	**Slot Radius:**	13-3/16 "	**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

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)
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:	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)
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 (- plan hits target center - Point	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
PBHL (CABO WABO FE - plan hits target center - Rectangle (sides W100.0 H10,066.0 D20.0)	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
FTP (CABO WABO FED - plan misses target center by 197.8usft at 10739.5usft MD (10560.6 TVD, -272.4 N, -1366.2 E) - Circle (radius 50.0)	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
LTP (CABO WABO FED - plan hits target center - Point	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 Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
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: OWB
Design: PWP0
GL: 3148.0
RKB 32ft + GL 3148ft @ 3180.0usft

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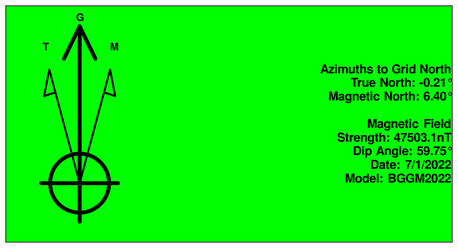


Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.40°

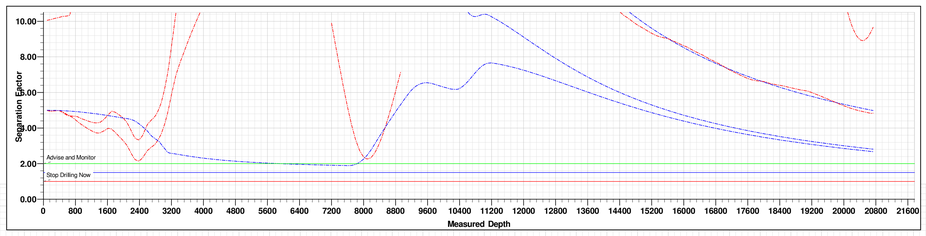
Magnetic Field
Strength: 47503.1nT
Dip Angle: 59.75°
Date: 7/1/2022
Model: BGGM2022

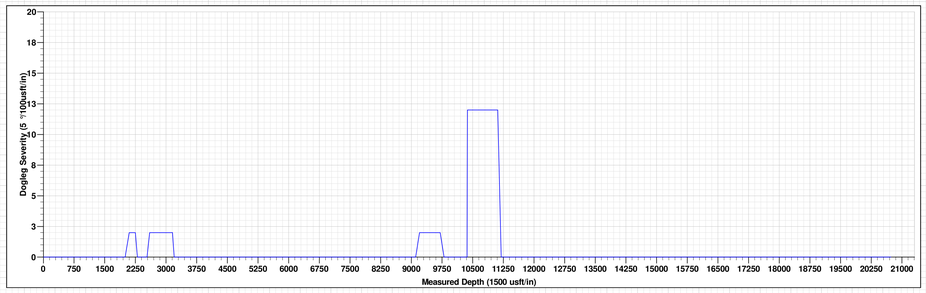
WELL DETAILS: CABO WABO FEDERAL COM #803Y

+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

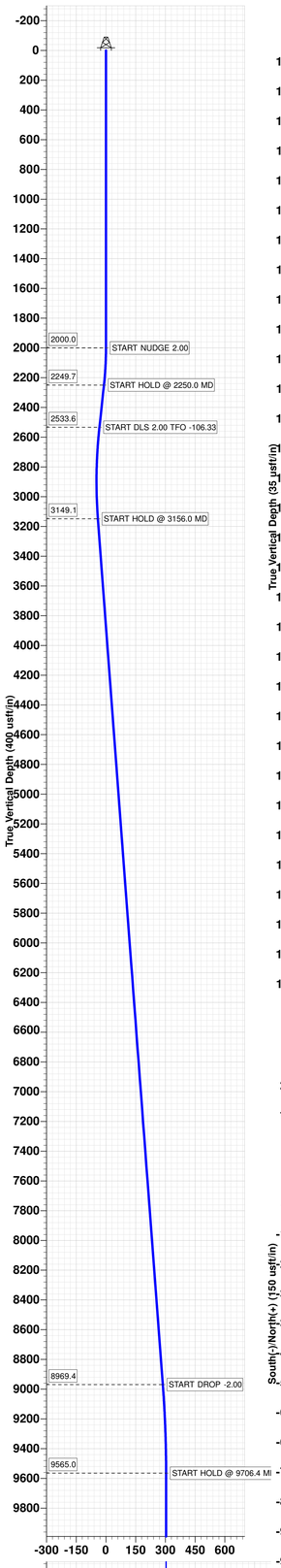
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VT (CABO WABO FED COM 803Y)	10222.5	-132.1	-1367.1	408242.30	622728.39	32° 7' 18.314 N	103° 56' 12.859 W
FTP (CABO WABO FED COM 803Y)	10700.0	-132.1	-1367.2	408242.27	622728.33	32° 7' 18.314 N	103° 56' 12.859 W
LTP (CABO WABO FED COM 803Y)	10700.0	-10096.9	-1302.4	398277.47	622793.09	32° 5' 39.696 N	103° 56' 12.532 W
PBHL (CABO WABO FED COM 803Y)	10700.0	-10226.9	-1301.6	398147.48	622793.94	32° 5' 38.410 N	103° 56' 12.528 W

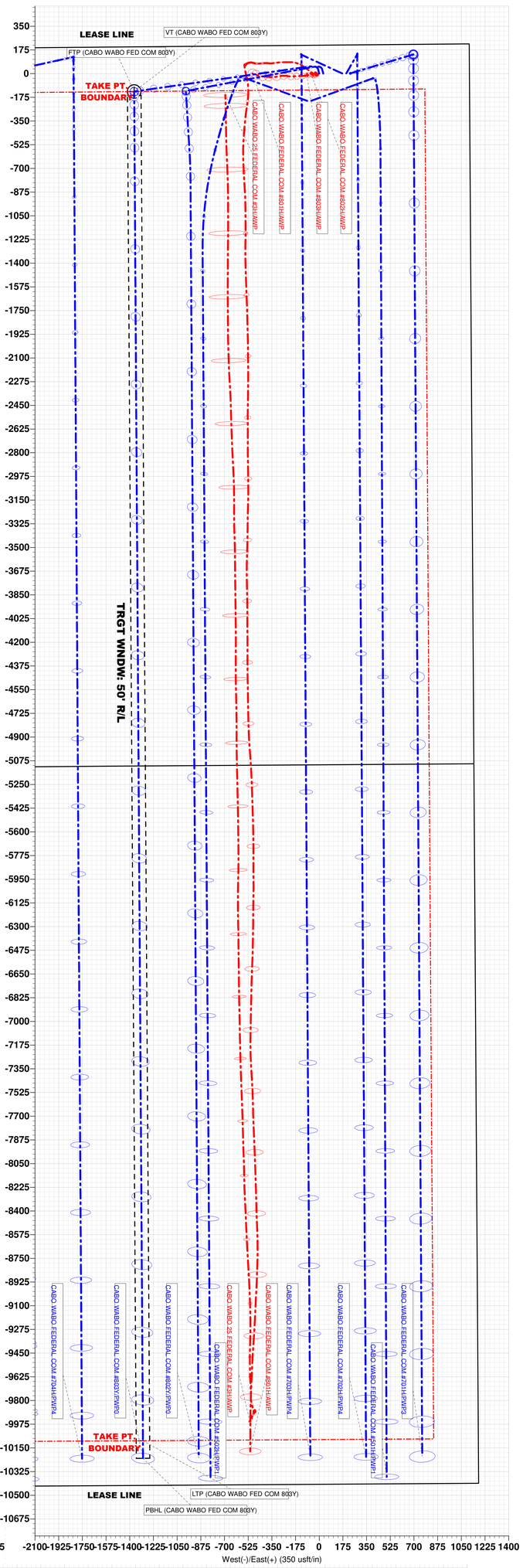


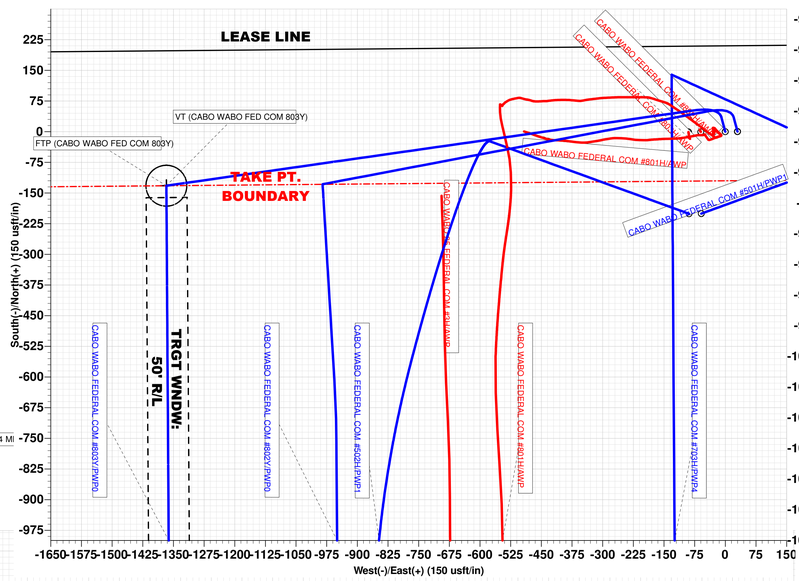


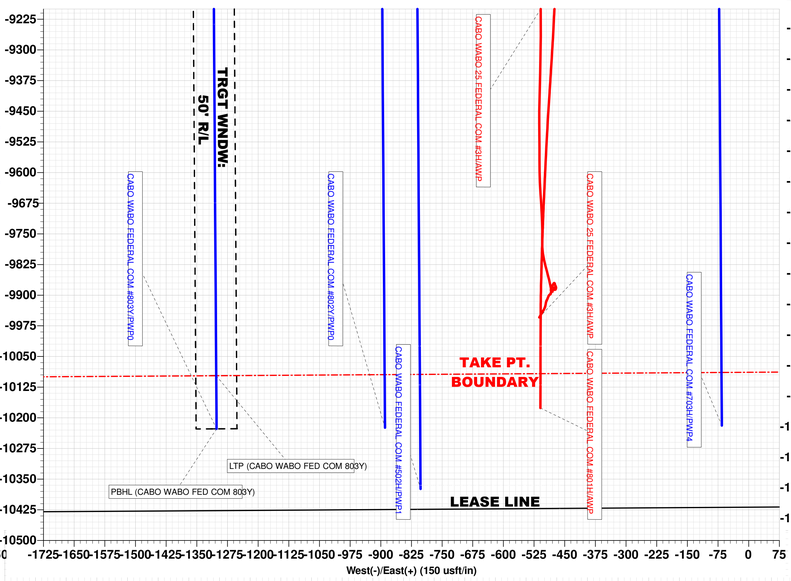
CABO WABO FEDERAL COM #803H

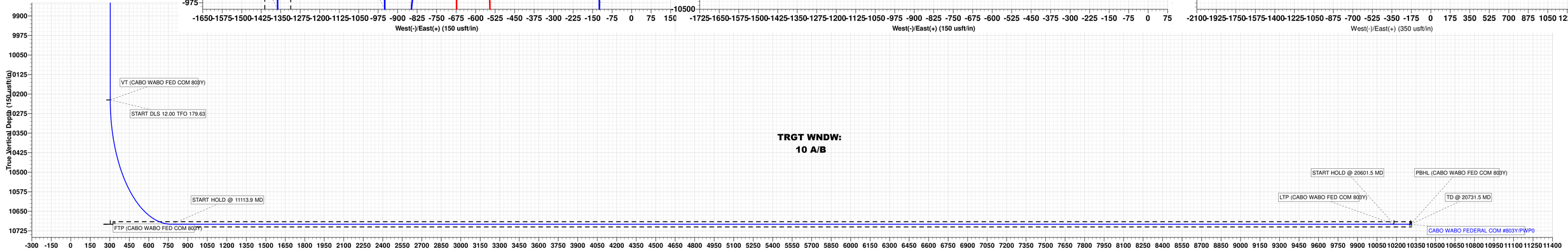
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	START NUDGE 2.00
2250.0	5.00	345.00	2249.7	10.5	-2.8	2.00	345.00	-10.1	START HOLD @ 2250.0 MD
2535.0	5.00	345.00	2533.6	34.5	-9.3	0.00	0.00	-33.1	START DLS 2.00 TFO -106.33
3156.0	12.00	261.87	3149.1	51.6	-80.4	2.00	-106.33	-41.0	START HOLD @ 3156.0 MD
9106.4	12.00	261.87	8969.4	-123.2	-1305.1	0.00	0.00	287.0	START DROP -2.00
9706.4	0.00	0.00	9565.0	-132.1	-1367.1	2.00	180.00	303.6	START HOLD @ 9706.4 MD
10363.9	0.00	0.00	10222.5	-132.1	-1367.1	0.00	0.00	303.6	START DLS 12.00 TFO 179.63
11113.9	90.00	179.63	10700.0	-609.5	-1364.0	12.00	179.63	776.9	START HOLD @ 11113.9 MD
20601.5	90.00	179.63	10700.0	-10096.9	-1302.4	0.00	0.00	10180.6	START HOLD @ 20601.5 MD
20731.5	90.00	179.63	10700.0	-10226.9	-1301.6	0.00	0.00	10309.4	TD @ 20731.5 MD











District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 124086

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 124086
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	New API 30-015-49717	7/13/2022

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

CONDITIONS

Action 124086

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 124086
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	None	7/13/2022