

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

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No. NMNM120895
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator COG PRODUCTION LLC		7. If Unit of CA/Agreement, Name and/or No.
3a. Address 2208 West Main Street, Artesia, NM 88210		8. Well Name and No. CABO WABO FEDERAL COM/802H
3b. Phone No. (include area code) (575) 748-6940		9. API Well No. 3001547756
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 24/T25S/R29E/NMP		10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP GAS
		11. Country or Parish, State EDDY/NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable 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 determined that the site is ready for final inspection.)

COG Production requests that the well number for Cabo Wabo Federal Com 802H (30-015-47756) be changed to 802Y.

While drilling this well we ran into issues with lost returns and the decision was made to P&A . 802Y was P&A 6/21/22.

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

Cabo Wabo Federal Com 802H replacement well

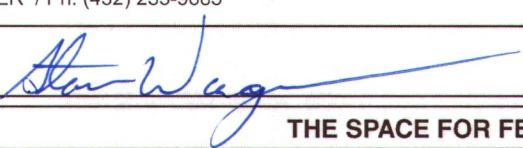
New SHL: 210 ft FNL & 1080 ft FEL, NENE 24-25S-29E Eddy Co.

New FTP: 330 ft FNL & 2066 ft FEL, 24-25S-29E

New LTP: 330 ft FSL & 2066 ft FEL, 25-25S-29E

New BHL: 200 ft FSL & 2066 ft FEL, 25-25S-29E

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) STAN WAGNER / Ph: (432) 253-9685	Regulatory Advisor Title
Signature 	Date 07/07/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CODY LAYTON / Ph: (575) 234-5959 / Approved	Assistant Field Manager Lands & Title	Date 07/07/2022
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

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

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

BHL: SESW / 200 FSL / 2066 FEL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941358 / LONG: -103.9335243 (TVD: 11471 feet, MD: 21659 feet)

CONFIDENTIAL

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code 329794	5 Property Name CABO WABO FEDERAL COM	6 Well Number 802H
7 OGRID No. 217955	8 Operator Name COG PRODUCTION LLC	9 Elevation 3148'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	1080'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

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

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code Com	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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=665310.46 LAT.= 32.1222757° N
Y=408432.82 LONG.= 103.93287443° W
210' FNL, 1080' FEL - SECTION 24

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

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

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

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

Signature: Stan Wagner Date: 7/5/22

Printed Name: Stan Wagner

E-mail Address: _____

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

Date of Survey: 07/01/2022

Signature and Seal of Professional Surveyor: Charles L. Jurica

Certificate Number: 25490

Conocophillips Company - Cabo Wabo Federal Com #802H

1. Geologic Formations

TVD of target	10,530' EOL	Pilot hole depth	NA
MD at TD:	20,522'	Deepest expected fresh water:	50'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	516	Water	
Top of Salt	920	Salt	
Base of Salt	3170	Salt	
Lamar	3382	Salt Water	
Bell Canyon	3428	Salt Water	
Cherry Canyon	4320	Oil/Gas	
Brushy Canyon	5544	Oil/Gas	
Bone Spring Lime	7207	Oil/Gas	
1st Bone Spring Sand	8172	Oil/Gas	
2nd Bone Spring Sand	8783	Oil/Gas	
3rd Bone Spring Sand	10107	Oil/Gas	
Wolfcamp A	10448	Target	
Wolfcamp B	10908	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	900	13.38"	54.5	J55	BTC	2.74	8.24	17.39	18.53
9.875"	0	8500	7.625"	29.7	L80 IC	BTC	1.48	1.25	2.71	2.71
8.750"	8500	10150	7.625"	29.7	P110 IC	W513	1.55	1.77	3.12	1.87
6.75"	0	9650	5.5"	20	P110	BTC	1.84	2.50	3.32	3.32
6.75"	9650	20,522	5.5"	20	P110	W441	1.87	2.60	3.46	2.82
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 #802H

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

Conocophillips Company - Cabo Wabo Federal Com #802H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	536	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	780	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	448	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1025	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	9,650'	35% OH in Lateral (KOP to EOL)

Conocophillips Company - Cabo Wabo Federal Com #802H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valves (inside BOP and full-opening valve) with appropriate wrenches and choke

Y	Formation integrity test will be performed per Onshore Order #2.
Y	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 #802H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

Conocophillips Company - Cabo Wabo Federal Com #802H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6575 psi at 10530' TVD
Abnormal Temperature	NO 160 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 #802H

OWB

PWP0

Anticollision Report

05 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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	10,153.2	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
10,153.2	20,522.7	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	8,121.6	17,420.0	290.9	106.9	1.581	Advise and Monitor, CC, ES,
CABO WABO 25 FEDERAL COM #3H - OWB-PH - AWP	20,255.3	10,400.0	381.7	290.5	4.188	CC, ES, SF
CABO WABO FEDERAL COM #501H - OWB - PWP1	2,000.0	1,994.0	219.4	211.7	28.589	CC, ES
CABO WABO FEDERAL COM #501H - OWB - PWP1	3,300.0	3,287.6	235.5	223.0	18.771	SF
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,595.9	4,572.6	159.6	141.9	9.029	CC
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,655.0	4,631.2	159.8	141.9	8.922	ES
CABO WABO FEDERAL COM #502H - OWB - PWP1	4,900.0	4,874.1	164.6	145.8	8.748	SF
CABO WABO FEDERAL COM #503H - OWB - PWP1						Out of range
CABO WABO FEDERAL COM #504H - OWB - PWP1						Out of range
CABO WABO FEDERAL COM #701H - OWB - PWP3	2,000.0	1,992.0	199.9	189.1	18.462	CC, ES
CABO WABO FEDERAL COM #701H - OWB - PWP3	2,600.0	2,584.7	215.8	202.4	16.038	SF
CABO WABO FEDERAL COM #702H - OWB - PWP4	2,000.0	1,993.0	170.0	163.4	25.837	CC, ES
CABO WABO FEDERAL COM #702H - OWB - PWP4	2,600.0	2,589.5	185.7	178.2	24.854	SF
CABO WABO FEDERAL COM #703H - OWB - PWP4	2,000.0	1,991.0	140.0	133.5	21.288	CC, ES
CABO WABO FEDERAL COM #703H - OWB - PWP4	20,522.7	20,713.7	824.4	650.5	4.742	SF
CABO WABO FEDERAL COM #704H - OWB - PWP4	10,636.6	10,846.5	844.0	802.1	20.150	CC
CABO WABO FEDERAL COM #704H - OWB - PWP4	20,522.7	20,718.4	862.5	688.6	4.959	ES, SF
CABO WABO FEDERAL COM #705H - OWB - PWP3						Out of range
CABO WABO FEDERAL COM #706H - OWB - PWP4						Out of range
CABO WABO FEDERAL COM #801H - OWB - AWP	2,941.6	2,934.4	51.2	35.4	3.245	CC
CABO WABO FEDERAL COM #801H - OWB - AWP	2,945.0	2,937.7	51.2	35.4	3.240	ES
CABO WABO FEDERAL COM #801H - OWB - AWP	3,000.0	2,991.7	51.8	35.6	3.202	SF
CABO WABO FEDERAL COM #801H - ST01 - AWP	2,959.5	2,952.1	51.9	41.2	4.862	CC, ES
CABO WABO FEDERAL COM #801H - ST01 - AWP	20,425.0	20,707.3	434.5	270.1	2.643	SF
CABO WABO FEDERAL COM #802H - OWB - AWP	0.0	0.0	90.1			
CABO WABO FEDERAL COM #803H - OWB - AWP	988.8	986.0	117.5	111.1	18.417	CC
CABO WABO FEDERAL COM #803H - OWB - AWP	1,000.0	997.0	117.5	111.1	18.317	ES
CABO WABO FEDERAL COM #803H - OWB - AWP	1,330.0	1,324.9	122.3	115.1	16.945	SF
CABO WABO FEDERAL COM #803Y - OWB - PWP0	2,559.9	2,559.0	30.0	22.3	3.919	CC
CABO WABO FEDERAL COM #803Y - OWB - PWP0	3,144.0	3,137.9	31.5	19.4	2.607	ES
CABO WABO FEDERAL COM #803Y - OWB - PWP0	7,648.7	7,642.1	85.4	40.2	1.889	Advise and Monitor, SF
CABO WABO FEDERAL COM #804H - OWB - AWP						Out of range

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

ConocoPhillips

Anticollision Report

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Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FEDERAL COM #802Y	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO FEDERAL COM #804H - OWB - PHX3						Out of range
CABO WABO FEDERAL COM #805H - OWB - PWP2						Out of range

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL COM #3H - OWB-LAT 1 - A	20,522.7	8,062.0				Out of Range @TD
CABO WABO 25 FEDERAL COM #3H - OWB-PH - AWP	20,522.7	10,400.0	466.0	386.9	5.887	
CABO WABO FEDERAL COM #501H - OWB - PWP1	20,522.7	19,063.0				Out of Range @TD
CABO WABO FEDERAL COM #502H - OWB - PWP1	20,522.7	19,070.5				Out of Range @TD
CABO WABO FEDERAL COM #503H - OWB - PWP1	20,522.7	19,034.6				Out of Range @TD
CABO WABO FEDERAL COM #504H - OWB - PWP1	20,522.7	19,032.6				Out of Range @TD
CABO WABO FEDERAL COM #701H - OWB - PWP3	20,522.7	20,757.5				Out of Range @TD
CABO WABO FEDERAL COM #702H - OWB - PWP4	20,522.7	20,931.7				Out of Range @TD
CABO WABO FEDERAL COM #703H - OWB - PWP4	20,522.7	20,713.7	824.4	650.5	4.742	SF
CABO WABO FEDERAL COM #704H - OWB - PWP4	20,522.7	20,718.4	862.5	688.6	4.959	ES, SF
CABO WABO FEDERAL COM #705H - OWB - PWP3	20,522.7	20,756.1				Out of Range @TD
CABO WABO FEDERAL COM #706H - OWB - PWP4	20,522.7	20,673.2				Out of Range @TD
CABO WABO FEDERAL COM #801H - OWB - AWP	20,522.7	10,169.0				Out of Range @TD
CABO WABO FEDERAL COM #801H - ST01 - AWP	20,522.7	20,769.0	438.2	273.9	2.666	
CABO WABO FEDERAL COM #802H - OWB - AWP	20,522.7	682.0				Out of Range @TD
CABO WABO FEDERAL COM #803H - OWB - AWP	20,522.7	1,336.0				Out of Range @TD
CABO WABO FEDERAL COM #803Y - OWB - PWP0	20,522.7	20,731.5	445.7	279.1	2.675	
CABO WABO FEDERAL COM #804H - OWB - AWP	20,522.7	10,075.0				Out of Range @TD
CABO WABO FEDERAL COM #804H - OWB - PHX3	20,522.7	20,846.4				Out of Range @TD
CABO WABO FEDERAL COM #805H - OWB - PWP2	20,522.7	20,708.5				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
7,200.0	7,112.2	17,420.0	7,944.9	21.0	161.1	-165.43	-156.8	-723.9	932.0	839.1	92.86	10.037
7,220.0	7,131.8	17,420.0	7,944.9	21.1	161.1	-165.43	-156.8	-723.9	913.3	820.0	93.25	9.794
7,300.0	7,210.2	17,420.0	7,944.9	21.4	161.1	-165.43	-156.8	-723.9	839.0	743.8	95.15	8.818
7,315.0	7,224.9	17,420.0	7,944.9	21.4	161.1	-165.43	-156.8	-723.9	825.2	729.6	95.57	8.634
7,400.0	7,308.1	17,420.0	7,944.9	21.7	161.1	-165.43	-156.8	-723.9	747.8	649.3	98.45	7.595
7,410.0	7,317.9	17,420.0	7,944.9	21.8	161.1	-165.43	-156.8	-723.9	738.8	639.9	98.86	7.473
7,500.0	7,406.1	17,420.0	7,944.9	22.1	161.1	-165.43	-156.8	-723.9	659.1	555.8	103.30	6.381
7,505.0	7,411.0	17,420.0	7,944.9	22.1	161.1	-165.43	-156.8	-723.9	654.8	551.2	103.60	6.321
7,600.0	7,504.1	17,420.0	7,944.9	22.5	161.1	-165.43	-156.8	-723.9	574.2	463.8	110.44	5.200
7,648.7	7,551.8	17,420.0	7,944.9	22.7	161.1	-165.43	-156.8	-723.9	534.8	419.8	115.04	4.649
7,695.0	7,597.3	17,420.0	7,944.9	22.8	161.1	-165.13	-156.8	-723.9	498.6	378.4	120.20	4.148
7,700.0	7,602.2	17,420.0	7,944.9	22.8	161.1	-165.10	-156.8	-723.9	494.7	373.9	120.81	4.095
7,790.0	7,691.0	17,420.0	7,944.9	23.2	161.1	-164.59	-156.8	-723.9	428.7	295.3	133.38	3.214
7,800.0	7,700.8	17,420.0	7,944.9	23.2	161.1	-164.54	-156.8	-723.9	421.7	286.8	134.97	3.125
7,885.0	7,785.1	17,420.0	7,944.9	23.6	161.1	-164.16	-156.8	-723.9	367.6	217.6	150.04	2.450
7,900.0	7,800.0	17,420.0	7,944.9	23.6	161.1	-164.10	-156.8	-723.9	359.1	206.2	152.91	2.348
7,980.0	7,879.6	17,420.0	7,944.9	23.9	161.1	-163.86	-156.8	-723.9	320.5	152.3	168.17	1.906 Advise and Monitor
8,000.0	7,899.5	17,420.0	7,944.9	24.0	161.1	-163.82	-156.8	-723.9	313.0	141.3	171.68	1.823 Advise and Monitor
8,075.0	7,974.4	17,420.0	7,944.9	24.3	161.1	-163.71	-156.8	-723.9	294.3	112.6	181.63	1.620 Advise and Monitor
8,100.0	7,999.3	17,420.0	7,944.9	24.4	161.1	-163.69	-156.8	-723.9	291.6	108.3	183.33	1.591 Advise and Monitor
8,121.6	8,020.9	17,420.0	7,944.9	24.5	161.1	-163.69	-156.8	-723.9	290.9	106.9	184.00	1.581 Advise and Monitor, CC, ES, SF
8,170.0	8,069.3	17,420.0	7,944.9	24.7	161.1	-163.71	-156.8	-723.9	294.5	111.8	182.74	1.612 Advise and Monitor
8,200.0	8,099.3	17,420.0	7,944.9	24.8	161.1	-163.74	-156.8	-723.9	300.3	120.1	180.19	1.667 Advise and Monitor
8,223.7	8,123.0	17,420.0	7,944.9	24.9	161.1	95.51	-156.8	-723.9	306.7	129.3	177.36	1.729 Advise and Monitor
8,265.0	8,164.3	17,420.0	7,944.9	25.0	161.1	95.51	-156.8	-723.9	321.5	150.3	171.23	1.878 Advise and Monitor
8,300.0	8,199.3	17,420.0	7,944.9	25.1	161.1	95.51	-156.8	-723.9	337.5	172.2	165.34	2.041
8,360.0	8,259.3	17,420.0	7,944.9	25.3	161.1	95.51	-156.8	-723.9	371.1	216.2	154.97	2.395
8,400.0	8,299.3	17,420.0	7,944.9	25.4	161.1	95.51	-156.8	-723.9	397.0	248.6	148.41	2.675
8,455.0	8,354.3	17,420.0	7,944.9	25.6	161.1	95.51	-156.8	-723.9	436.1	295.8	140.30	3.108
8,500.0	8,399.3	17,420.0	7,944.9	25.7	161.1	95.51	-156.8	-723.9	470.4	335.9	134.54	3.497
8,550.0	8,449.3	17,420.0	7,944.9	25.9	161.1	95.51	-156.8	-723.9	510.5	381.5	129.03	3.957
8,600.0	8,499.3	17,420.0	7,944.9	26.0	161.1	95.51	-156.8	-723.9	552.3	427.9	124.38	4.440
8,645.0	8,544.3	17,420.0	7,944.9	26.1	161.1	95.51	-156.8	-723.9	590.9	470.1	120.84	4.890
8,700.0	8,599.3	17,420.0	7,944.9	26.3	161.1	95.51	-156.8	-723.9	639.3	522.1	117.20	5.455
8,740.0	8,639.3	17,420.0	7,944.9	26.4	161.1	95.51	-156.8	-723.9	675.1	560.1	114.96	5.873
8,800.0	8,699.3	17,420.0	7,944.9	26.6	161.1	95.51	-156.8	-723.9	729.6	617.5	112.12	6.507
8,835.0	8,734.3	17,420.0	7,944.9	26.7	161.1	95.51	-156.8	-723.9	761.8	651.1	110.72	6.881
8,900.0	8,799.3	17,420.0	7,944.9	26.9	161.1	95.51	-156.8	-723.9	822.2	713.7	108.50	7.578
8,930.0	8,829.3	17,420.0	7,944.9	27.0	161.1	95.51	-156.8	-723.9	850.3	742.7	107.63	7.900
9,000.0	8,899.3	17,420.0	7,944.9	27.2	161.1	95.51	-156.8	-723.9	916.4	810.5	105.89	8.654
9,025.0	8,924.3	17,420.0	7,944.9	27.3	161.1	95.51	-156.8	-723.9	940.1	834.7	105.36	8.923

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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				Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,380.0	10,530.0	10,400.0	10,398.3	76.0	9.1	-83.12	-9,954.6	-542.4	954.9	899.3	55.61	17.172			
19,400.0	10,530.0	10,400.0	10,398.3	76.1	9.1	-83.12	-9,954.6	-542.4	936.6	880.6	55.99	16.726			
19,475.0	10,530.0	10,400.0	10,398.3	76.6	9.1	-83.12	-9,954.6	-542.4	868.6	811.0	57.61	15.079			
19,500.0	10,530.0	10,400.0	10,398.3	76.8	9.1	-83.12	-9,954.6	-542.4	846.2	788.0	58.21	14.538			
19,570.0	10,530.0	10,400.0	10,398.3	77.3	9.1	-83.12	-9,954.6	-542.4	784.4	724.3	60.08	13.055			
19,600.0	10,530.0	10,400.0	10,398.3	77.5	9.1	-83.12	-9,954.6	-542.4	758.3	697.3	60.98	12.435			
19,665.0	10,530.0	10,400.0	10,398.3	78.0	9.1	-83.12	-9,954.6	-542.4	702.9	639.8	63.17	11.128			
19,700.0	10,530.0	10,400.0	10,398.3	78.2	9.1	-83.12	-9,954.6	-542.4	673.8	609.3	64.49	10.448			
19,760.0	10,530.0	10,400.0	10,398.3	78.6	9.1	-83.12	-9,954.6	-542.4	625.3	558.3	67.01	9.331			
19,800.0	10,530.0	10,400.0	10,398.3	78.9	9.1	-83.12	-9,954.6	-542.4	594.1	525.2	68.89	8.624			
19,855.0	10,530.0	10,400.0	10,398.3	79.3	9.1	-83.12	-9,954.6	-542.4	553.1	481.3	71.74	7.710			
19,900.0	10,530.0	10,400.0	10,398.3	79.6	9.1	-83.12	-9,954.6	-542.4	521.4	447.2	74.28	7.020			
19,950.0	10,530.0	10,400.0	10,398.3	80.0	9.1	-83.12	-9,954.6	-542.4	488.7	411.4	77.30	6.322			
20,000.0	10,530.0	10,400.0	10,398.3	80.3	9.1	-83.12	-9,954.6	-542.4	459.2	378.7	80.45	5.707			
20,045.0	10,530.0	10,400.0	10,398.3	80.7	9.1	-83.12	-9,954.6	-542.4	435.8	352.5	83.28	5.232			
20,100.0	10,530.0	10,400.0	10,398.3	81.0	9.1	-83.12	-9,954.6	-542.4	412.0	325.5	86.50	4.764			
20,140.0	10,530.0	10,400.0	10,398.3	81.3	9.1	-83.12	-9,954.6	-542.4	398.7	310.2	88.48	4.506			
20,200.0	10,530.0	10,400.0	10,398.3	81.8	9.1	-83.12	-9,954.6	-542.4	385.6	295.1	90.54	4.260			
20,235.0	10,530.0	10,400.0	10,398.3	82.0	9.1	-83.12	-9,954.6	-542.4	382.2	291.1	91.08	4.197			
20,255.3	10,530.0	10,400.0	10,398.3	82.1	9.1	-83.12	-9,954.6	-542.4	381.7	290.5	91.14	4.188	CC, ES, SF		
20,300.0	10,530.0	10,400.0	10,398.3	82.5	9.1	-83.12	-9,954.6	-542.4	384.3	293.6	90.63	4.240			
20,330.0	10,530.0	10,400.0	10,398.3	82.7	9.1	-83.12	-9,954.6	-542.4	388.9	299.1	89.81	4.331			
20,392.7	10,530.0	10,400.0	10,398.3	83.1	9.1	-83.12	-9,954.6	-542.4	405.7	318.6	87.08	4.659			
20,400.0	10,530.0	10,400.0	10,398.3	83.2	9.1	-83.12	-9,954.6	-542.4	408.2	321.5	86.69	4.708			
20,425.0	10,530.0	10,400.0	10,398.3	83.4	9.1	-83.12	-9,954.6	-542.4	417.7	332.4	85.28	4.898			
20,500.0	10,530.0	10,400.0	10,398.3	83.9	9.1	-83.12	-9,954.6	-542.4	453.4	372.8	80.62	5.623			
20,520.0	10,530.0	10,400.0	10,398.3	84.0	9.1	-83.12	-9,954.6	-542.4	464.5	385.1	79.34	5.854			
20,522.7	10,530.0	10,400.0	10,398.3	84.0	9.1	-83.12	-9,954.6	-542.4	466.0	386.9	79.17	5.887			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8512-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-156.17	-200.7	-88.6	219.5					
95.0	95.0	89.0	89.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.00	36.563		
100.0	100.0	94.0	94.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.00	36.563		
190.0	190.0	184.0	184.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.01	36.521		
200.0	200.0	194.0	194.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.01	36.513		
285.0	285.0	279.0	279.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.02	36.421		
300.0	300.0	294.0	294.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.4	6.03	36.401		
380.0	380.0	374.0	374.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.3	6.05	36.268		
400.0	400.0	394.0	394.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.3	6.06	36.229		
475.0	475.0	469.0	469.0	3.0	3.0	-156.17	-200.7	-88.6	219.4	213.3	6.08	36.062		
500.0	500.0	494.0	494.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.3	6.09	36.000		
570.0	570.0	564.0	564.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.3	6.13	35.807		
600.0	600.0	594.0	594.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.3	6.14	35.717		
665.0	665.0	659.0	659.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.2	6.18	35.506		
700.0	700.0	694.0	694.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.2	6.20	35.384		
760.0	760.0	754.0	754.0	3.1	3.1	-156.17	-200.7	-88.6	219.4	213.2	6.24	35.162		
800.0	800.0	794.0	794.0	3.2	3.2	-156.17	-200.7	-88.6	219.4	213.1	6.27	35.005		
855.0	855.0	849.0	849.0	3.2	3.2	-156.17	-200.7	-88.6	219.4	213.1	6.31	34.779		
900.0	900.0	894.0	894.0	3.2	3.2	-156.17	-200.7	-88.6	219.4	213.1	6.34	34.585		
950.0	950.0	944.0	944.0	3.2	3.2	-156.17	-200.7	-88.6	219.4	213.0	6.38	34.362		
1,000.0	1,000.0	994.0	994.0	3.2	3.2	-156.17	-200.7	-88.6	219.4	213.0	6.43	34.130		
1,045.0	1,045.0	1,039.0	1,039.0	3.3	3.3	-156.17	-200.7	-88.6	219.4	212.9	6.47	33.914		
1,100.0	1,100.0	1,094.0	1,094.0	3.3	3.3	-156.17	-200.7	-88.6	219.4	212.9	6.52	33.643		
1,140.0	1,140.0	1,134.0	1,134.0	3.3	3.3	-156.17	-200.7	-88.6	219.4	212.8	6.56	33.440		
1,200.0	1,200.0	1,194.0	1,194.0	3.4	3.3	-156.17	-200.7	-88.6	219.4	212.8	6.62	33.130		
1,235.0	1,235.0	1,229.0	1,229.0	3.4	3.4	-156.17	-200.7	-88.6	219.4	212.7	6.66	32.945		
1,300.0	1,300.0	1,294.0	1,294.0	3.4	3.4	-156.17	-200.7	-88.6	219.4	212.7	6.73	32.595		
1,330.0	1,330.0	1,324.0	1,324.0	3.4	3.4	-156.17	-200.7	-88.6	219.4	212.6	6.77	32.431		
1,400.0	1,400.0	1,394.0	1,394.0	3.5	3.5	-156.17	-200.7	-88.6	219.4	212.6	6.85	32.044		
1,425.0	1,425.0	1,419.0	1,419.0	3.5	3.5	-156.17	-200.7	-88.6	219.4	212.5	6.88	31.904		
1,500.0	1,500.0	1,494.0	1,494.0	3.5	3.5	-156.17	-200.7	-88.6	219.4	212.4	6.97	31.480		
1,520.0	1,520.0	1,514.0	1,514.0	3.6	3.6	-156.17	-200.7	-88.6	219.4	212.4	6.99	31.366		
1,600.0	1,600.0	1,594.0	1,594.0	3.6	3.6	-156.17	-200.7	-88.6	219.4	212.3	7.10	30.907		
1,615.0	1,615.0	1,609.0	1,609.0	3.6	3.6	-156.17	-200.7	-88.6	219.4	212.3	7.12	30.820		
1,700.0	1,700.0	1,694.0	1,694.0	3.7	3.7	-156.17	-200.7	-88.6	219.4	212.2	7.23	30.328		
1,710.0	1,710.0	1,704.0	1,704.0	3.7	3.7	-156.17	-200.7	-88.6	219.4	212.2	7.25	30.270		
1,800.0	1,800.0	1,794.0	1,794.0	3.8	3.8	-156.17	-200.7	-88.6	219.4	212.0	7.38	29.747		
1,805.0	1,805.0	1,799.0	1,799.0	3.8	3.8	-156.17	-200.7	-88.6	219.4	212.0	7.38	29.718		
1,900.0	1,900.0	1,894.0	1,894.0	3.9	3.8	-156.17	-200.7	-88.6	219.4	211.9	7.52	29.167		
1,995.0	1,995.0	1,989.0	1,989.0	3.9	3.9	-156.17	-200.7	-88.6	219.4	211.7	7.67	28.618		
2,000.0	2,000.0	1,994.0	1,994.0	3.9	3.9	-156.17	-200.7	-88.6	219.4	211.7	7.67	28.589 CC, ES		
2,090.0	2,090.0	2,084.0	2,084.0	4.1	4.0	-141.39	-200.7	-88.6	220.5	212.6	7.92	27.827		
2,100.0	2,100.0	2,094.0	2,094.0	4.2	4.0	-141.44	-200.7	-88.6	220.8	212.8	7.95	27.758		
2,185.0	2,184.9	2,178.9	2,178.9	4.7	4.1	-142.07	-200.7	-88.6	224.1	215.5	8.53	26.260		
2,200.0	2,199.8	2,193.8	2,193.8	4.8	4.1	-142.22	-200.7	-88.6	224.9	216.2	8.64	26.019		
2,250.0	2,249.7	2,243.7	2,243.7	4.9	4.2	-142.79	-200.7	-88.6	228.0	219.2	8.80	25.912		
2,280.0	2,279.6	2,273.6	2,273.6	5.0	4.2	-143.18	-200.7	-88.6	230.1	221.2	8.86	25.963		
2,300.0	2,299.5	2,293.5	2,293.5	5.0	4.2	-143.44	-200.7	-88.6	231.5	222.6	8.90	25.997		
2,375.0	2,374.2	2,368.2	2,368.2	5.1	4.3	-144.38	-200.7	-88.6	236.8	227.7	9.08	26.074		
2,400.0	2,399.1	2,393.1	2,393.1	5.1	4.3	-144.68	-200.7	-88.6	238.6	229.4	9.14	26.093		
2,470.0	2,468.8	2,462.8	2,462.8	5.2	4.4	-145.51	-200.7	-88.6	243.6	234.2	9.34	26.067		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8512-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
2,500.0	2,498.7	2,492.7	2,492.7	5.3	4.4	-145.86	-200.7	-88.6	245.7	236.3	9.43	26.053	
2,535.0	2,533.6	2,529.2	2,529.2	5.3	4.4	-146.30	-200.6	-88.5	248.2	238.7	9.51	26.084	
2,565.0	2,563.5	2,560.8	2,560.8	5.3	4.4	-140.03	-200.5	-88.0	249.9	240.3	9.60	26.037	
2,600.0	2,598.4	2,597.6	2,597.6	5.4	4.5	-132.40	-200.1	-87.1	251.4	241.7	9.70	25.913	
2,660.0	2,658.2	2,660.6	2,660.5	5.6	4.5	-119.40	-199.2	-84.4	252.7	242.7	10.04	25.170	
2,700.0	2,698.0	2,702.4	2,702.2	5.8	4.5	-111.54	-198.3	-81.9	252.7	242.4	10.27	24.596	
2,755.0	2,752.8	2,758.6	2,758.2	6.1	4.6	-102.50	-196.7	-77.7	251.7	241.0	10.66	23.610	
2,800.0	2,797.6	2,802.9	2,802.4	6.4	4.6	-96.69	-195.5	-74.3	250.4	239.4	10.98	22.814	
2,850.0	2,847.3	2,852.1	2,851.4	6.6	4.6	-91.87	-194.1	-70.4	248.7	237.4	11.24	22.116	
2,900.0	2,896.9	2,901.1	2,900.3	6.9	4.6	-88.53	-192.7	-66.6	246.7	235.2	11.52	21.412	
2,945.0	2,941.5	2,945.1	2,944.1	7.0	4.7	-86.58	-191.4	-63.1	244.8	233.1	11.69	20.934	
3,000.0	2,995.9	2,998.6	2,997.5	7.2	4.7	-85.32	-189.9	-59.0	242.3	230.4	11.93	20.320	
3,040.0	3,035.4	3,037.5	3,036.1	7.4	4.7	-85.05	-188.8	-55.9	240.6	228.5	12.05	19.964	
3,100.0	3,094.4	3,095.4	3,093.9	7.5	4.8	-85.49	-187.1	-51.4	238.1	225.9	12.24	19.456	
3,135.0	3,128.8	3,129.1	3,127.5	7.6	4.8	-86.16	-186.2	-48.7	236.9	224.5	12.31	19.240	
3,144.0	3,137.6	3,137.8	3,136.1	7.6	4.8	-86.37	-185.9	-48.1	236.6	224.2	12.33	19.189	
3,200.0	3,192.5	3,191.5	3,189.7	7.7	4.8	-90.01	-184.4	-43.9	235.3	222.8	12.42	18.945	
3,230.0	3,221.9	3,220.4	3,218.4	7.8	4.8	-91.97	-183.6	-41.6	235.0	222.5	12.46	18.854	
3,242.0	3,233.6	3,231.8	3,229.8	7.8	4.9	-92.75	-183.3	-40.7	235.0	222.5	12.48	18.827	
3,300.0	3,290.5	3,287.6	3,285.4	8.0	4.9	-96.55	-181.7	-36.3	235.5	223.0	12.55	18.771 SF	
3,325.0	3,315.0	3,311.6	3,309.3	8.0	4.9	-98.17	-181.0	-34.5	236.1	223.5	12.58	18.774	
3,400.0	3,388.5	3,383.6	3,381.1	8.2	5.0	-102.99	-178.9	-28.8	239.1	226.4	12.65	18.904	
3,420.0	3,408.1	3,402.8	3,400.2	8.2	5.0	-104.25	-178.4	-27.3	240.2	227.5	12.66	18.965	
3,500.0	3,486.5	3,479.6	3,476.7	8.4	5.0	-109.18	-176.2	-21.3	245.8	233.1	12.73	19.314	
3,515.0	3,501.2	3,494.0	3,491.1	8.5	5.0	-110.08	-175.8	-20.2	247.1	234.3	12.74	19.395	
3,600.0	3,584.4	3,575.6	3,572.4	8.7	5.1	-115.00	-173.5	-13.8	255.4	242.6	12.81	19.943	
3,610.0	3,594.2	3,585.2	3,582.0	8.7	5.1	-115.56	-173.2	-13.1	256.5	243.7	12.82	20.016	
3,700.0	3,682.4	3,671.6	3,668.1	9.0	5.2	-120.37	-170.7	-6.3	267.6	254.7	12.91	20.734	
3,705.0	3,687.3	3,676.4	3,672.9	9.0	5.2	-120.63	-170.6	-5.9	268.3	255.3	12.91	20.777	
3,800.0	3,780.4	3,767.6	3,763.8	9.2	5.3	-125.27	-168.0	1.2	282.0	269.0	13.04	21.631	
3,895.0	3,873.5	3,858.8	3,854.7	9.5	5.3	-129.48	-165.4	8.3	297.5	284.3	13.20	22.540	
3,900.0	3,878.4	3,863.6	3,859.5	9.5	5.3	-129.69	-165.3	8.7	298.4	285.2	13.21	22.589	
3,990.0	3,966.6	3,950.1	3,945.6	9.8	5.4	-133.27	-162.8	15.5	314.5	301.1	13.40	23.472	
4,000.0	3,976.4	3,959.7	3,955.1	9.8	5.4	-133.64	-162.5	16.2	316.4	303.0	13.42	23.571	
4,085.0	4,059.7	4,041.3	4,036.5	10.1	5.5	-136.67	-160.2	22.6	332.8	319.1	13.64	24.405	
4,100.0	4,074.4	4,055.7	4,050.8	10.1	5.5	-137.18	-159.8	23.7	335.8	322.1	13.68	24.552	
4,180.0	4,152.8	4,132.5	4,127.4	10.4	5.6	-139.73	-157.6	29.8	352.1	338.2	13.90	25.324	
4,200.0	4,172.4	4,151.7	4,146.5	10.4	5.6	-140.33	-157.1	31.3	356.3	342.3	13.96	25.515	
4,275.0	4,245.9	4,223.7	4,218.3	10.7	5.7	-142.48	-155.0	36.9	372.3	358.1	14.20	26.219	
4,300.0	4,270.4	4,247.7	4,242.2	10.7	5.7	-143.15	-154.3	38.8	377.7	363.5	14.28	26.450	
4,370.0	4,339.0	4,314.9	4,309.2	11.0	5.7	-144.94	-152.4	44.0	393.2	378.7	14.52	27.085	
4,400.0	4,368.4	4,343.7	4,337.9	11.1	5.8	-145.67	-151.6	46.3	400.0	385.4	14.62	27.351	
4,465.0	4,432.1	4,406.1	4,400.1	11.3	5.8	-147.16	-149.8	51.2	414.8	400.0	14.86	27.917	
4,500.0	4,466.4	4,439.7	4,433.5	11.4	5.9	-147.92	-148.9	53.8	422.9	407.9	14.99	28.216	
4,560.0	4,525.2	4,497.3	4,491.0	11.6	5.9	-149.16	-147.2	58.3	437.0	421.8	15.22	28.716	
4,600.0	4,564.4	4,535.7	4,529.2	11.7	5.9	-149.95	-146.1	61.3	446.5	431.1	15.37	29.042	
4,655.0	4,618.3	4,588.5	4,581.8	11.9	6.0	-150.97	-144.6	65.4	459.6	444.0	15.59	29.481	
4,700.0	4,662.4	4,631.8	4,624.9	12.0	6.0	-151.77	-143.4	68.8	470.4	454.7	15.77	29.831	
4,750.0	4,711.4	4,679.8	4,672.7	12.2	6.1	-152.62	-142.0	72.6	482.6	466.6	15.97	30.212	
4,800.0	4,760.4	4,727.8	4,720.6	12.4	6.1	-153.42	-140.7	76.3	494.9	478.7	16.18	30.584	
4,845.0	4,804.4	4,771.0	4,763.6	12.5	6.2	-154.12	-139.4	79.7	506.0	489.6	16.37	30.911	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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: Reference		0-Standard Keeper 104, 8512-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,858.3	4,823.8	4,816.3	12.7	6.2	-154.92	-137.9	83.8	519.6	503.0	16.60	31.302		
4,940.0	4,897.5	4,862.2	4,854.5	12.8	6.3	-155.48	-136.8	86.8	529.6	512.9	16.77	31.580		
5,000.0	4,956.3	4,919.8	4,911.9	13.1	6.3	-156.28	-135.2	91.4	544.7	527.7	17.03	31.987		
5,035.0	4,990.6	4,953.4	4,945.4	13.2	6.3	-156.73	-134.2	94.0	553.6	536.4	17.18	32.218		
5,100.0	5,054.3	5,015.8	5,007.6	13.4	6.4	-157.53	-132.4	98.9	570.1	552.6	17.47	32.640		
5,130.0	5,083.7	5,044.6	5,036.3	13.5	6.4	-157.88	-131.6	101.1	577.7	560.1	17.60	32.829		
5,200.0	5,152.3	5,111.8	5,103.3	13.7	6.5	-158.67	-129.7	106.4	595.6	577.7	17.91	33.263		
5,225.0	5,176.8	5,135.8	5,127.2	13.8	6.5	-158.94	-129.0	108.3	602.1	584.0	18.02	33.414		
5,300.0	5,250.3	5,207.8	5,199.0	14.1	6.6	-159.71	-127.0	113.9	621.4	603.1	18.35	33.857		
5,320.0	5,269.9	5,227.0	5,218.1	14.2	6.6	-159.91	-126.4	115.4	626.6	608.2	18.44	33.973		
5,400.0	5,348.3	5,303.8	5,294.7	14.4	6.7	-160.67	-124.2	121.4	647.4	628.6	18.81	34.425		
5,415.0	5,363.0	5,318.2	5,309.0	14.5	6.7	-160.81	-123.8	122.5	651.3	632.4	18.87	34.508		
5,500.0	5,446.3	5,399.9	5,390.3	14.8	6.8	-161.56	-121.5	128.9	673.5	654.3	19.26	34.968		
5,510.0	5,456.1	5,409.5	5,399.9	14.8	6.8	-161.65	-121.2	129.7	676.1	656.8	19.31	35.021		
5,600.0	5,544.3	5,495.9	5,486.0	15.1	6.9	-162.39	-118.8	136.4	699.8	680.1	19.72	35.487		
5,605.0	5,549.2	5,500.7	5,490.8	15.2	6.9	-162.43	-118.6	136.8	701.1	681.4	19.74	35.512		
5,700.0	5,642.3	5,591.9	5,581.7	15.5	7.0	-163.15	-116.0	143.9	726.2	706.0	20.18	35.983		
5,795.0	5,735.4	5,683.1	5,672.6	15.8	7.1	-163.83	-113.4	151.1	751.3	730.7	20.62	36.435		
5,800.0	5,740.3	5,687.9	5,677.4	15.9	7.1	-163.86	-113.3	151.4	752.7	732.0	20.64	36.458		
5,890.0	5,828.5	5,774.3	5,763.5	16.2	7.2	-164.46	-110.8	158.2	776.6	755.5	21.06	36.869		
5,900.0	5,838.3	5,783.9	5,773.1	16.2	7.2	-164.53	-110.6	159.0	779.3	758.2	21.11	36.913		
5,985.0	5,921.6	5,865.5	5,854.4	16.5	7.3	-165.05	-108.2	165.3	802.0	780.5	21.51	37.285		
6,000.0	5,936.3	5,879.9	5,868.7	16.6	7.3	-165.14	-107.8	166.5	806.0	784.4	21.58	37.350		
6,080.0	6,014.7	5,956.7	5,945.3	16.9	7.4	-165.61	-105.6	172.5	827.4	805.4	21.96	37.686		
6,100.0	6,034.2	5,975.9	5,964.4	16.9	7.4	-165.72	-105.1	174.0	832.8	810.7	22.05	37.768		
6,175.0	6,107.7	6,048.0	6,036.2	17.2	7.5	-166.14	-103.1	179.6	852.9	830.5	22.40	38.070		
6,200.0	6,132.2	6,072.0	6,060.1	17.3	7.5	-166.27	-102.4	181.5	859.6	837.1	22.52	38.169		
6,270.0	6,200.8	6,139.2	6,127.1	17.6	7.6	-166.63	-100.5	186.8	878.4	855.6	22.85	38.441		
6,300.0	6,230.2	6,168.0	6,155.8	17.7	7.6	-166.78	-99.6	189.0	886.5	863.5	22.99	38.555		
6,365.0	6,293.9	6,230.4	6,218.0	17.9	7.7	-167.10	-97.9	193.9	904.1	880.8	23.30	38.797		
6,400.0	6,328.2	6,264.0	6,251.5	18.0	7.7	-167.26	-96.9	196.5	913.5	890.0	23.47	38.925		
6,460.0	6,387.0	6,321.6	6,308.9	18.3	7.8	-167.54	-95.3	201.0	929.7	906.0	23.75	39.140		
6,500.0	6,426.2	6,360.0	6,347.1	18.4	7.8	-167.71	-94.2	204.0	940.6	916.6	23.94	39.281		
6,555.0	6,480.1	6,412.8	6,399.8	18.6	7.9	-167.95	-92.7	208.2	955.4	931.2	24.21	39.470		
6,600.0	6,524.2	6,456.0	6,442.8	18.8	8.0	-168.14	-91.4	211.5	967.6	943.2	24.42	39.623		
6,650.0	6,573.2	6,504.0	6,490.7	19.0	8.0	-168.35	-90.1	215.3	981.2	956.5	24.66	39.789		
6,700.0	6,622.2	6,552.0	6,538.5	19.1	8.1	-168.55	-88.7	219.1	994.8	969.9	24.90	39.952		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-149.47	-201.1	-118.6	233.6				
95.0	95.0	89.0	89.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.00	38.915	
100.0	100.0	94.0	94.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.00	38.915	
190.0	190.0	184.0	184.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.01	38.873	
200.0	200.0	194.0	194.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.01	38.865	
285.0	285.0	279.0	279.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.02	38.775	
300.0	300.0	294.0	294.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.03	38.755	
380.0	380.0	374.0	374.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.05	38.625	
400.0	400.0	394.0	394.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.5	6.05	38.586	
475.0	475.0	469.0	469.0	3.0	3.0	-149.47	-201.1	-118.6	233.5	227.4	6.08	38.422	
500.0	500.0	494.0	494.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.4	6.09	38.361	
570.0	570.0	564.0	564.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.4	6.12	38.171	
600.0	600.0	594.0	594.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.4	6.13	38.081	
665.0	665.0	659.0	659.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.3	6.17	37.873	
700.0	700.0	694.0	694.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.3	6.19	37.752	
760.0	760.0	754.0	754.0	3.1	3.1	-149.47	-201.1	-118.6	233.5	227.3	6.22	37.532	
800.0	800.0	794.0	794.0	3.2	3.2	-149.47	-201.1	-118.6	233.5	227.3	6.25	37.377	
855.0	855.0	849.0	849.0	3.2	3.2	-149.47	-201.1	-118.6	233.5	227.2	6.29	37.153	
900.0	900.0	894.0	894.0	3.2	3.2	-149.47	-201.1	-118.6	233.5	227.2	6.32	36.961	
950.0	950.0	944.0	944.0	3.2	3.2	-149.47	-201.1	-118.6	233.5	227.2	6.36	36.738	
1,000.0	1,000.0	994.0	994.0	3.2	3.2	-149.47	-201.1	-118.6	233.5	227.1	6.40	36.507	
1,045.0	1,045.0	1,039.0	1,039.0	3.3	3.3	-149.47	-201.1	-118.6	233.5	227.1	6.43	36.292	
1,100.0	1,100.0	1,094.0	1,094.0	3.3	3.3	-149.47	-201.1	-118.6	233.5	227.0	6.48	36.021	
1,140.0	1,140.0	1,134.0	1,134.0	3.3	3.3	-149.47	-201.1	-118.6	233.5	227.0	6.52	35.819	
1,200.0	1,200.0	1,194.0	1,194.0	3.4	3.3	-149.47	-201.1	-118.6	233.5	226.9	6.58	35.507	
1,235.0	1,235.0	1,229.0	1,229.0	3.4	3.4	-149.47	-201.1	-118.6	233.5	226.9	6.61	35.322	
1,300.0	1,300.0	1,294.0	1,294.0	3.4	3.4	-149.47	-201.1	-118.6	233.5	226.8	6.68	34.971	
1,330.0	1,330.0	1,324.0	1,324.0	3.4	3.4	-149.47	-201.1	-118.6	233.5	226.8	6.71	34.806	
1,400.0	1,400.0	1,394.0	1,394.0	3.5	3.5	-149.47	-201.1	-118.6	233.5	226.7	6.79	34.415	
1,425.0	1,425.0	1,419.0	1,419.0	3.5	3.5	-149.47	-201.1	-118.6	233.5	226.7	6.81	34.274	
1,500.0	1,500.0	1,494.0	1,494.0	3.5	3.5	-149.47	-201.1	-118.6	233.5	226.6	6.90	33.845	
1,520.0	1,520.0	1,514.0	1,514.0	3.6	3.6	-149.47	-201.1	-118.6	233.5	226.6	6.92	33.729	
1,600.0	1,600.0	1,594.0	1,594.0	3.6	3.6	-149.47	-201.1	-118.6	233.5	226.5	7.02	33.264	
1,615.0	1,615.0	1,609.0	1,609.0	3.6	3.6	-149.47	-201.1	-118.6	233.5	226.5	7.04	33.176	
1,700.0	1,700.0	1,694.0	1,694.0	3.7	3.7	-149.47	-201.1	-118.6	233.5	226.4	7.15	32.675	
1,710.0	1,710.0	1,704.0	1,704.0	3.7	3.7	-149.47	-201.1	-118.6	233.5	226.3	7.16	32.616	
1,800.0	1,800.0	1,794.0	1,794.0	3.8	3.8	-149.47	-201.1	-118.6	233.5	226.2	7.28	32.083	
1,805.0	1,805.0	1,799.0	1,799.0	3.8	3.8	-149.47	-201.1	-118.6	233.5	226.2	7.29	32.053	
1,900.0	1,900.0	1,894.0	1,894.0	3.9	3.8	-149.47	-201.1	-118.6	233.5	226.1	7.42	31.489	
1,995.0	1,995.0	1,989.0	1,989.0	3.9	3.9	-149.47	-201.1	-118.6	233.5	226.0	7.55	30.926	
2,000.0	2,000.0	1,994.0	1,994.0	3.9	3.9	-149.47	-201.1	-118.6	233.5	226.0	7.56	30.896	
2,090.0	2,090.0	2,084.0	2,084.0	4.1	4.0	-134.70	-201.1	-118.6	234.5	226.7	7.79	30.108	
2,100.0	2,100.0	2,094.0	2,094.0	4.2	4.0	-134.75	-201.1	-118.6	234.7	226.9	7.82	30.034	
2,185.0	2,184.9	2,178.9	2,178.9	4.7	4.1	-135.43	-201.1	-118.6	237.7	229.4	8.35	28.460	
2,200.0	2,199.8	2,193.8	2,193.8	4.8	4.1	-135.59	-201.1	-118.6	238.4	230.0	8.46	28.199	
2,250.0	2,249.7	2,243.7	2,243.7	4.9	4.2	-136.21	-201.1	-118.6	241.3	232.7	8.61	28.026	
2,280.0	2,279.6	2,273.6	2,273.6	5.0	4.2	-136.63	-201.1	-118.6	243.2	234.5	8.67	28.034	
2,300.0	2,299.5	2,293.5	2,293.5	5.0	4.2	-136.91	-201.1	-118.6	244.4	235.7	8.72	28.040	
2,375.0	2,374.2	2,368.2	2,368.2	5.1	4.3	-137.94	-201.1	-118.6	249.3	240.4	8.90	28.002	
2,400.0	2,399.1	2,393.1	2,393.1	5.1	4.3	-138.27	-201.1	-118.6	250.9	241.9	8.97	27.980	
2,470.0	2,468.8	2,462.8	2,462.8	5.2	4.4	-139.18	-201.1	-118.6	255.5	246.3	9.18	27.842	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,498.7	2,492.7	2,492.7	5.3	4.4	-139.56	-201.1	-118.6	257.5	248.2	9.27	27.779	
2,535.0	2,533.6	2,527.4	2,527.4	5.3	4.4	-139.96	-201.1	-118.8	259.8	250.5	9.35	27.787	
2,565.0	2,563.5	2,557.1	2,557.1	5.3	4.4	-133.53	-200.9	-119.2	261.7	252.3	9.43	27.760	
2,600.0	2,598.4	2,591.7	2,591.7	5.4	4.5	-125.51	-200.6	-120.0	263.7	254.1	9.52	27.708	
2,660.0	2,658.2	2,651.3	2,651.2	5.6	4.5	-111.42	-199.8	-122.4	266.2	256.4	9.83	27.091	
2,700.0	2,698.0	2,691.0	2,690.8	5.8	4.5	-102.52	-199.0	-124.6	267.3	257.3	10.04	26.625	
2,755.0	2,752.8	2,745.6	2,745.3	6.1	4.5	-91.68	-197.5	-128.5	268.2	257.8	10.38	25.829	
2,800.0	2,797.6	2,790.6	2,790.1	6.4	4.6	-84.27	-196.2	-132.2	268.3	257.6	10.67	25.143	
2,850.0	2,847.3	2,840.6	2,839.9	6.6	4.6	-77.60	-194.7	-136.4	267.7	256.8	10.88	24.606	
2,900.0	2,896.9	2,890.5	2,889.7	6.9	4.6	-72.35	-193.2	-140.5	266.3	255.2	11.10	23.990	
2,945.0	2,941.5	2,935.5	2,934.4	7.0	4.7	-68.64	-191.8	-144.3	264.5	253.3	11.20	23.621	
3,000.0	2,995.9	2,990.3	2,989.1	7.2	4.7	-65.13	-190.1	-148.8	261.4	250.0	11.40	22.941	
3,040.0	3,035.4	3,030.2	3,028.8	7.4	4.7	-63.18	-188.9	-152.1	258.7	247.2	11.51	22.473	
3,100.0	3,094.4	3,089.8	3,088.2	7.5	4.8	-61.03	-187.1	-157.1	253.8	242.1	11.67	21.739	
3,135.0	3,128.8	3,124.6	3,122.8	7.6	4.8	-60.15	-186.1	-160.0	250.4	238.7	11.78	21.266	
3,144.0	3,137.6	3,133.5	3,131.6	7.6	4.8	-59.96	-185.8	-160.7	249.5	237.7	11.80	21.140	
3,200.0	3,192.5	3,189.0	3,187.0	7.7	4.8	-61.07	-184.1	-165.3	243.9	231.9	11.98	20.364	
3,230.0	3,221.9	3,218.7	3,216.6	7.8	4.8	-61.69	-183.2	-167.8	240.9	228.8	12.07	19.953	
3,300.0	3,290.5	3,288.1	3,285.7	8.0	4.9	-63.19	-181.1	-173.5	234.1	221.8	12.30	19.025	
3,325.0	3,315.0	3,312.9	3,310.4	8.0	4.9	-63.75	-180.4	-175.6	231.7	219.3	12.39	18.699	
3,400.0	3,388.5	3,387.2	3,384.4	8.2	5.0	-65.49	-178.2	-181.8	224.6	211.9	12.65	17.752	
3,420.0	3,408.1	3,407.1	3,404.2	8.2	5.0	-65.97	-177.6	-183.4	222.7	210.0	12.72	17.505	
3,500.0	3,486.5	3,486.4	3,483.2	8.4	5.0	-67.99	-175.2	-190.0	215.5	202.5	13.02	16.553	
3,515.0	3,501.2	3,501.2	3,498.0	8.5	5.0	-68.38	-174.7	-191.2	214.2	201.1	13.08	16.379	
3,600.0	3,584.4	3,585.5	3,581.9	8.7	5.1	-70.70	-172.2	-198.2	206.8	193.4	13.40	15.432	
3,610.0	3,594.2	3,595.4	3,591.8	8.7	5.1	-70.98	-171.9	-199.0	206.0	192.6	13.44	15.324	
3,700.0	3,682.4	3,684.6	3,680.6	9.0	5.2	-73.63	-169.2	-206.4	198.7	184.9	13.81	14.392	
3,705.0	3,687.3	3,689.6	3,685.6	9.0	5.2	-73.78	-169.0	-206.8	198.3	184.5	13.83	14.342	
3,800.0	3,780.4	3,783.7	3,779.4	9.2	5.3	-76.80	-166.2	-214.7	191.1	176.9	14.22	13.437	
3,895.0	3,873.5	3,877.9	3,873.2	9.5	5.4	-80.05	-163.3	-222.5	184.5	169.9	14.63	12.611	
3,900.0	3,878.4	3,882.9	3,878.1	9.5	5.4	-80.23	-163.2	-222.9	184.2	169.5	14.65	12.569	
3,990.0	3,966.6	3,972.1	3,967.0	9.8	5.4	-83.52	-160.5	-230.3	178.5	163.5	15.05	11.864	
4,000.0	3,976.4	3,982.0	3,976.8	9.8	5.4	-83.90	-160.2	-231.1	177.9	162.9	15.09	11.791	
4,085.0	4,059.7	4,066.2	4,060.8	10.1	5.5	-87.21	-157.6	-238.1	173.3	157.8	15.47	11.200	
4,100.0	4,074.4	4,081.1	4,075.6	10.1	5.5	-87.81	-157.2	-239.3	172.5	157.0	15.54	11.103	
4,180.0	4,152.8	4,160.4	4,154.6	10.4	5.6	-91.11	-154.8	-245.9	168.8	152.9	15.89	10.618	
4,200.0	4,172.4	4,180.2	4,174.3	10.4	5.6	-91.96	-154.2	-247.6	167.9	151.9	15.98	10.507	
4,275.0	4,245.9	4,254.6	4,248.4	10.7	5.7	-95.20	-152.0	-253.7	165.1	148.8	16.32	10.119	
4,300.0	4,270.4	4,279.3	4,273.1	10.7	5.7	-96.31	-151.2	-255.8	164.3	147.9	16.43	10.002	
4,370.0	4,339.0	4,348.7	4,342.2	11.0	5.8	-99.46	-149.1	-261.5	162.3	145.6	16.73	9.702	
4,400.0	4,368.4	4,378.5	4,371.8	11.1	5.8	-100.83	-148.2	-264.0	161.7	144.8	16.86	9.588	
4,465.0	4,432.1	4,442.9	4,436.0	11.3	5.9	-103.83	-146.3	-269.4	160.5	143.4	17.14	9.366	
4,500.0	4,466.4	4,477.6	4,470.5	11.4	5.9	-105.46	-145.2	-272.2	160.1	142.8	17.28	9.262	
4,560.0	4,525.2	4,537.1	4,529.8	11.6	5.9	-108.27	-143.4	-277.2	159.6	142.1	17.53	9.107	
4,595.9	4,560.3	4,572.6	4,565.2	11.7	6.0	-109.96	-142.3	-280.1	159.6	141.9	17.67	9.029 CC	
4,600.0	4,564.4	4,576.7	4,569.3	11.7	6.0	-110.15	-142.2	-280.5	159.6	141.9	17.69	9.020	
4,655.0	4,618.3	4,631.2	4,623.6	11.9	6.0	-112.74	-140.6	-285.0	159.8	141.9	17.91	8.922 ES	
4,700.0	4,662.4	4,675.8	4,668.0	12.0	6.1	-114.85	-139.2	-288.7	160.2	142.1	18.08	8.859	
4,750.0	4,711.4	4,725.4	4,717.4	12.2	6.1	-117.17	-137.7	-292.8	160.9	142.6	18.27	8.806	
4,800.0	4,760.4	4,775.0	4,766.7	12.4	6.2	-119.47	-136.2	-296.9	161.8	143.4	18.45	8.770	
4,845.0	4,804.4	4,819.6	4,811.2	12.5	6.2	-121.52	-134.9	-300.6	162.9	144.3	18.62	8.753	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,858.3	4,874.1	4,865.5	12.7	6.3	-123.98	-133.2	-305.1	164.6	145.8	18.81	8.748 SF	
4,940.0	4,897.5	4,913.7	4,905.0	12.8	6.3	-125.73	-132.0	-308.4	165.9	147.0	18.95	8.756	
5,000.0	4,956.3	4,973.2	4,964.2	13.1	6.4	-128.31	-130.2	-313.4	168.3	149.1	19.16	8.785	
5,035.0	4,990.6	5,007.9	4,998.8	13.2	6.4	-129.78	-129.2	-316.2	169.8	150.5	19.27	8.810	
5,100.0	5,054.3	5,072.3	5,062.9	13.4	6.5	-132.44	-127.3	-321.6	172.9	153.4	19.49	8.872	
5,130.0	5,083.7	5,102.1	5,092.6	13.5	6.5	-133.63	-126.4	-324.1	174.5	154.9	19.59	8.907	
5,200.0	5,152.3	5,171.5	5,161.7	13.7	6.6	-136.34	-124.3	-329.8	178.4	158.6	19.82	9.002	
5,225.0	5,176.8	5,196.2	5,186.4	13.8	6.6	-137.27	-123.5	-331.9	179.9	160.0	19.90	9.040	
5,300.0	5,250.3	5,270.6	5,260.4	14.1	6.7	-139.99	-121.3	-338.0	184.7	164.6	20.15	9.167	
5,320.0	5,269.9	5,290.4	5,280.2	14.2	6.7	-140.69	-120.7	-339.7	186.1	165.9	20.22	9.204	
5,400.0	5,348.3	5,369.7	5,359.1	14.4	6.8	-143.39	-118.3	-346.3	191.7	171.2	20.48	9.361	
5,415.0	5,363.0	5,384.6	5,374.0	14.5	6.8	-143.88	-117.8	-347.5	192.8	172.3	20.53	9.392	
5,500.0	5,446.3	5,468.8	5,457.9	14.8	6.9	-146.54	-115.3	-354.5	199.3	178.5	20.81	9.577	
5,510.0	5,456.1	5,478.7	5,467.8	14.8	6.9	-146.84	-115.0	-355.3	200.1	179.3	20.85	9.600	
5,600.0	5,544.3	5,567.9	5,556.6	15.1	7.0	-149.46	-112.3	-362.7	207.5	186.4	21.15	9.811	
5,605.0	5,549.2	5,572.9	5,561.6	15.2	7.0	-149.60	-112.1	-363.1	208.0	186.8	21.17	9.823	
5,700.0	5,642.3	5,667.1	5,655.4	15.5	7.1	-152.15	-109.3	-370.9	216.2	194.7	21.50	10.057	
5,795.0	5,735.4	5,761.2	5,749.2	15.8	7.2	-154.51	-106.4	-378.8	224.9	203.1	21.84	10.299	
5,800.0	5,740.3	5,766.2	5,754.1	15.9	7.2	-154.62	-106.3	-379.2	225.4	203.5	21.85	10.312	
5,890.0	5,828.5	5,855.4	5,843.0	16.2	7.3	-156.69	-103.6	-386.6	233.9	211.7	22.18	10.547	
5,900.0	5,838.3	5,865.3	5,852.8	16.2	7.3	-156.91	-103.3	-387.4	234.9	212.7	22.21	10.573	
5,985.0	5,921.6	5,949.6	5,936.7	16.5	7.4	-158.71	-100.8	-394.4	243.2	220.7	22.53	10.798	
6,000.0	5,936.3	5,964.4	5,951.6	16.6	7.4	-159.01	-100.3	-395.6	244.7	222.1	22.58	10.838	
6,080.0	6,014.7	6,043.7	6,030.5	16.9	7.5	-160.58	-97.9	-402.2	252.8	230.0	22.88	11.051	
6,100.0	6,034.2	6,063.6	6,050.3	16.9	7.5	-160.95	-97.3	-403.8	254.9	231.9	22.96	11.104	
6,175.0	6,107.7	6,137.9	6,124.3	17.2	7.6	-162.31	-95.1	-410.0	262.7	239.5	23.24	11.303	
6,200.0	6,132.2	6,162.7	6,149.0	17.3	7.6	-162.74	-94.3	-412.1	265.3	242.0	23.34	11.369	
6,270.0	6,200.8	6,232.1	6,218.1	17.6	7.7	-163.92	-92.2	-417.8	272.8	249.2	23.61	11.554	
6,300.0	6,230.2	6,261.8	6,247.8	17.7	7.7	-164.40	-91.3	-420.3	276.0	252.3	23.73	11.633	
6,365.0	6,293.9	6,326.2	6,311.9	17.9	7.8	-165.41	-89.4	-425.6	283.1	259.1	23.98	11.803	
6,400.0	6,328.2	6,360.9	6,346.5	18.0	7.8	-165.93	-88.3	-428.5	286.9	262.8	24.12	11.894	
6,460.0	6,387.0	6,420.4	6,405.7	18.3	7.9	-166.79	-86.5	-433.5	293.5	269.1	24.36	12.048	
6,500.0	6,426.2	6,460.1	6,445.2	18.4	8.0	-167.35	-85.3	-436.8	298.0	273.4	24.52	12.151	
6,555.0	6,480.1	6,514.6	6,499.5	18.6	8.0	-168.08	-83.7	-441.3	304.1	279.4	24.74	12.291	
6,600.0	6,524.2	6,559.2	6,544.0	18.8	8.1	-168.66	-82.3	-445.0	309.2	284.3	24.93	12.404	
6,650.0	6,573.2	6,608.7	6,593.3	19.0	8.1	-169.29	-80.8	-449.1	314.9	289.7	25.13	12.529	
6,700.0	6,622.2	6,658.3	6,642.7	19.1	8.2	-169.89	-79.3	-453.2	320.6	295.2	25.34	12.652	
6,745.0	6,666.3	6,702.9	6,687.1	19.3	8.2	-170.41	-78.0	-456.9	325.8	300.2	25.52	12.763	
6,800.0	6,720.2	6,757.4	6,741.4	19.5	8.3	-171.03	-76.4	-461.4	332.1	306.4	25.75	12.896	
6,840.0	6,759.4	6,797.1	6,780.9	19.7	8.3	-171.46	-75.2	-464.7	336.8	310.8	25.92	12.992	
6,900.0	6,818.2	6,856.5	6,840.2	19.9	8.4	-172.09	-73.4	-469.7	343.8	317.6	26.17	13.134	
6,935.0	6,852.5	6,891.2	6,874.7	20.0	8.4	-172.45	-72.3	-472.5	347.9	321.5	26.32	13.216	
7,000.0	6,916.2	6,955.7	6,938.9	20.2	8.5	-173.09	-70.4	-477.9	355.5	328.9	26.60	13.366	
7,030.0	6,945.6	6,985.4	6,968.5	20.4	8.6	-173.37	-69.5	-480.3	359.1	332.3	26.73	13.435	
7,100.0	7,014.2	7,054.8	7,037.7	20.6	8.6	-174.02	-67.4	-486.1	367.4	340.3	27.03	13.594	
7,125.0	7,038.7	7,079.6	7,062.3	20.7	8.7	-174.24	-66.6	-488.2	370.4	343.2	27.13	13.649	
7,200.0	7,112.2	7,153.9	7,136.4	21.0	8.8	-174.89	-64.4	-494.3	379.3	351.9	27.46	13.815	
7,220.0	7,131.8	7,173.7	7,156.1	21.1	8.8	-175.06	-63.8	-496.0	381.7	354.2	27.54	13.859	
7,300.0	7,210.2	7,253.0	7,235.1	21.4	8.9	-175.71	-61.4	-502.6	391.3	363.5	27.89	14.031	
7,315.0	7,224.9	7,267.9	7,249.9	21.4	8.9	-175.82	-60.9	-503.8	393.2	365.2	27.96	14.063	
7,400.0	7,308.1	7,352.2	7,333.9	21.7	9.0	-176.48	-58.4	-510.8	403.4	375.1	28.33	14.242	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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							Rule Assigned:							Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
7,410.0	7,317.9	7,362.1	7,343.7	21.8	9.0	-176.55	-58.1	-511.6	404.7	376.3	28.37	14.262			
7,500.0	7,406.1	7,451.3	7,432.6	22.1	9.1	-177.20	-55.4	-519.0	415.6	386.8	28.77	14.446			
7,505.0	7,411.0	7,456.2	7,437.5	22.1	9.1	-177.24	-55.2	-519.4	416.2	387.4	28.79	14.457			
7,600.0	7,504.1	7,550.4	7,531.3	22.5	9.2	-177.88	-52.4	-527.2	427.8	398.6	29.21	14.646			
7,648.7	7,551.8	7,598.6	7,579.4	22.7	9.3	-178.20	-50.9	-531.2	433.8	404.4	29.43	14.743			
7,695.0	7,597.3	7,644.6	7,625.2	22.8	9.3	-178.50	-49.6	-535.1	439.2	409.5	29.63	14.821			
7,700.0	7,602.2	7,649.6	7,630.1	22.8	9.3	-178.53	-49.4	-535.5	439.7	410.0	29.65	14.827			
7,790.0	7,691.0	7,739.1	7,719.3	23.2	9.4	-179.08	-46.7	-542.9	447.8	417.7	30.11	14.873			
7,800.0	7,700.8	7,749.1	7,729.2	23.2	9.4	-179.14	-46.4	-543.7	448.5	418.3	30.16	14.873			
7,885.0	7,785.1	7,833.9	7,813.7	23.6	9.5	-179.63	-43.8	-550.8	453.3	422.7	30.62	14.804			
7,900.0	7,800.0	7,848.8	7,828.6	23.6	9.6	-179.72	-43.4	-552.0	453.9	423.2	30.70	14.784			
7,980.0	7,879.6	7,928.7	7,908.2	23.9	9.7	179.82	-41.0	-558.6	455.7	424.6	31.13	14.639			
8,000.0	7,899.5	7,948.7	7,928.1	24.0	9.7	179.71	-40.4	-560.3	455.8	424.6	31.24	14.593			
8,075.0	7,974.4	8,023.6	8,002.7	24.3	9.8	179.29	-38.1	-566.5	455.0	423.4	31.63	14.387			
8,100.0	7,999.3	8,048.6	8,027.6	24.4	9.8	179.14	-37.4	-568.6	454.3	422.6	31.76	14.305			
8,170.0	8,069.3	8,118.4	8,097.1	24.7	9.9	178.73	-35.2	-574.4	451.2	419.1	32.12	14.051			
8,200.0	8,099.3	8,148.3	8,126.9	24.8	9.9	178.56	-34.3	-576.9	449.4	417.1	32.27	13.927			
8,223.7	8,123.0	8,172.0	8,150.5	24.9	10.0	77.70	-33.6	-578.8	447.7	415.4	32.36	13.836			
8,265.0	8,164.3	8,213.1	8,191.4	25.0	10.0	77.45	-32.4	-582.2	444.6	412.1	32.51	13.675			
8,300.0	8,199.3	8,248.0	8,226.2	25.1	10.0	77.23	-31.3	-585.1	442.0	409.4	32.65	13.541			
8,360.0	8,259.3	8,307.7	8,285.7	25.3	10.1	76.86	-29.5	-590.1	437.6	404.7	32.87	13.311			
8,400.0	8,299.3	8,347.6	8,325.4	25.4	10.2	76.60	-28.3	-593.4	434.6	401.6	33.03	13.160			
8,455.0	8,354.3	8,402.4	8,380.0	25.6	10.2	76.25	-26.7	-597.9	430.6	397.3	33.24	12.955			
8,500.0	8,399.3	8,447.2	8,424.6	25.7	10.3	75.95	-25.3	-601.7	427.3	393.9	33.41	12.789			
8,550.0	8,449.3	8,497.4	8,474.6	25.9	10.3	75.62	-23.8	-605.8	423.6	390.0	33.60	12.606			
8,600.0	8,499.3	8,574.5	8,551.2	26.0	10.4	75.73	-26.6	-613.5	418.3	384.4	33.88	12.346			
8,645.0	8,544.3	8,641.7	8,617.0	26.1	10.4	76.88	-37.2	-622.3	410.9	376.7	34.16	12.028			
8,700.0	8,599.3	8,718.7	8,689.9	26.3	10.4	79.55	-58.5	-634.5	398.8	364.3	34.57	11.537			
8,740.0	8,639.3	8,770.1	8,736.5	26.4	10.4	82.21	-78.0	-643.8	388.6	353.7	34.91	11.133			
8,800.0	8,699.3	8,839.2	8,795.9	26.6	10.5	87.07	-110.4	-657.7	372.2	336.8	35.46	10.498			
8,835.0	8,734.3	8,875.0	8,824.9	26.7	10.5	90.20	-130.0	-665.4	362.7	326.9	35.79	10.135			
8,900.0	8,799.3	8,933.4	8,869.2	26.9	10.6	96.24	-165.5	-678.7	346.8	310.4	36.40	9.527			
8,930.0	8,829.3	8,957.1	8,886.1	27.0	10.6	99.01	-181.2	-684.3	340.7	304.0	36.66	9.292			
9,000.0	8,899.3	9,005.5	8,918.3	27.2	10.6	105.18	-215.3	-696.1	331.4	294.2	37.20	8.908			
9,025.0	8,924.3	9,020.7	8,927.8	27.3	10.7	107.24	-226.6	-699.9	330.1	292.7	37.36	8.835			
9,039.6	8,938.9	9,029.1	8,932.9	27.4	10.7	108.41	-232.9	-702.1	329.9	292.4	37.44	8.811			
9,100.0	8,999.3	9,060.8	8,951.3	27.5	10.7	112.88	-257.4	-710.1	333.6	296.0	37.66	8.859			
9,120.0	9,019.3	9,070.3	8,956.5	27.6	10.8	114.24	-264.9	-712.5	336.6	298.9	37.69	8.929			
9,200.0	9,099.3	9,100.0	8,972.0	27.8	10.8	118.54	-289.1	-720.2	356.8	319.2	37.60	9.490			
9,215.0	9,114.3	9,109.4	8,976.7	27.9	10.8	119.91	-296.9	-722.7	362.0	324.4	37.60	9.629			
9,300.0	9,199.3	9,137.9	8,989.9	28.2	10.9	124.02	-321.0	-730.2	399.4	362.1	37.26	10.720			
9,310.0	9,209.3	9,140.9	8,991.2	28.2	10.9	124.45	-323.6	-731.0	404.6	367.3	37.21	10.873			
9,400.0	9,299.3	9,165.4	9,001.4	28.5	11.0	127.90	-344.9	-737.4	457.1	420.4	36.76	12.437			
9,405.0	9,304.3	9,166.6	9,001.9	28.5	11.0	128.07	-346.0	-737.8	460.4	423.6	36.73	12.532			
9,500.0	9,399.3	9,187.9	9,010.0	28.8	11.0	130.99	-364.8	-743.4	525.8	489.5	36.32	14.475			
9,595.0	9,494.3	9,200.0	9,014.2	29.1	11.0	132.61	-375.7	-746.6	598.1	562.2	35.99	16.619			
9,600.0	9,499.3	9,200.0	9,014.2	29.1	11.0	132.61	-375.7	-746.6	602.1	566.1	35.97	16.738			
9,690.0	9,589.3	9,221.0	9,021.0	29.4	11.1	135.34	-394.7	-752.2	675.2	639.4	35.88	18.821			
9,700.0	9,599.3	9,222.5	9,021.5	29.4	11.1	135.53	-396.1	-752.6	683.6	647.7	35.87	19.059			
9,785.0	9,684.3	9,234.1	9,024.9	29.7	11.1	136.98	-406.7	-755.7	755.9	720.1	35.82	21.103			
9,800.0	9,699.3	9,236.0	9,025.5	29.7	11.1	137.22	-408.5	-756.2	768.9	733.1	35.82	21.467			

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

ConocoPhillips

Anticollision Report

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Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8546-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
9,880.0	9,779.3	9,250.0	9,029.3	30.0	11.2	138.92	-421.5	-759.9	839.2	803.4	35.87	23.394	
9,900.0	9,799.3	9,250.0	9,029.3	30.0	11.2	138.92	-421.5	-759.9	857.0	821.2	35.87	23.890	
9,975.0	9,874.3	9,250.0	9,029.3	30.3	11.2	138.92	-421.5	-759.9	924.5	888.6	35.90	25.751	
10,000.0	9,899.3	9,250.0	9,029.3	30.4	11.2	138.92	-421.5	-759.9	947.3	911.3	35.92	26.370	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.52	1.7	199.9	200.1				
95.0	95.0	87.0	87.0	3.0	3.0	89.52	1.7	199.9	199.9	193.9	6.00	33.308	
100.0	100.0	92.0	92.0	3.0	3.0	89.52	1.7	199.9	199.9	193.9	6.00	33.306	
190.0	190.0	182.0	182.0	3.0	3.0	89.52	1.7	199.9	199.9	193.9	6.03	33.146	
200.0	200.0	192.0	192.0	3.0	3.0	89.52	1.7	199.9	199.9	193.9	6.04	33.116	
285.0	285.0	277.0	277.0	3.0	3.1	89.52	1.7	199.9	199.9	193.8	6.10	32.770	
300.0	300.0	292.0	292.0	3.0	3.1	89.52	1.7	199.9	199.9	193.8	6.12	32.693	
380.0	380.0	372.0	372.0	3.0	3.2	89.52	1.7	199.9	199.9	193.7	6.21	32.212	
400.0	400.0	392.0	392.0	3.0	3.2	89.52	1.7	199.9	199.9	193.7	6.23	32.075	
475.0	475.0	467.0	467.0	3.0	3.3	89.52	1.7	199.9	199.9	193.6	6.35	31.506	
500.0	500.0	492.0	492.0	3.1	3.4	89.52	1.7	199.9	199.9	193.5	6.39	31.301	
570.0	570.0	562.0	562.0	3.1	3.5	89.52	1.7	199.9	199.9	193.4	6.51	30.690	
600.0	600.0	592.0	592.0	3.1	3.6	89.52	1.7	199.9	199.9	193.4	6.57	30.416	
665.0	665.0	657.0	657.0	3.1	3.7	89.52	1.7	199.9	199.9	193.2	6.71	29.800	
700.0	700.0	692.0	692.0	3.1	3.8	89.52	1.7	199.9	199.9	193.1	6.79	29.460	
760.0	760.0	752.0	752.0	3.1	3.9	89.52	1.7	199.9	199.9	193.0	6.93	28.866	
800.0	800.0	792.0	792.0	3.2	4.0	89.52	1.7	199.9	199.9	192.9	7.02	28.467	
855.0	855.0	847.0	847.0	3.2	4.1	89.52	1.7	199.9	199.9	192.8	7.16	27.914	
900.0	900.0	892.0	892.0	3.2	4.2	89.52	1.7	199.9	199.9	192.6	7.28	27.463	
950.0	950.0	942.0	942.0	3.2	4.4	89.52	1.7	199.9	199.9	192.5	7.41	26.963	
1,000.0	1,000.0	992.0	992.0	3.2	4.5	89.52	1.7	199.9	199.9	192.4	7.55	26.468	
1,045.0	1,045.0	1,037.0	1,037.0	3.3	4.6	89.52	1.7	199.9	199.9	192.2	7.68	26.027	
1,100.0	1,100.0	1,092.0	1,092.0	3.3	4.8	89.52	1.7	199.9	199.9	192.1	7.84	25.496	
1,140.0	1,140.0	1,132.0	1,132.0	3.3	4.9	89.52	1.7	199.9	199.9	192.0	7.96	25.115	
1,200.0	1,200.0	1,192.0	1,192.0	3.4	5.0	89.52	1.7	199.9	199.9	191.8	8.14	24.555	
1,235.0	1,235.0	1,227.0	1,227.0	3.4	5.1	89.52	1.7	199.9	199.9	191.7	8.25	24.235	
1,300.0	1,300.0	1,292.0	1,292.0	3.4	5.3	89.52	1.7	199.9	199.9	191.5	8.45	23.652	
1,330.0	1,330.0	1,322.0	1,322.0	3.4	5.4	89.52	1.7	199.9	199.9	191.4	8.55	23.389	
1,400.0	1,400.0	1,392.0	1,392.0	3.5	5.6	89.52	1.7	199.9	199.9	191.2	8.77	22.790	
1,425.0	1,425.0	1,417.0	1,417.0	3.5	5.7	89.52	1.7	199.9	199.9	191.1	8.85	22.580	
1,500.0	1,500.0	1,492.0	1,492.0	3.5	5.9	89.52	1.7	199.9	199.9	190.8	9.10	21.969	
1,520.0	1,520.0	1,512.0	1,512.0	3.6	6.0	89.52	1.7	199.9	199.9	190.8	9.17	21.809	
1,600.0	1,600.0	1,592.0	1,592.0	3.6	6.2	89.52	1.7	199.9	199.9	190.5	9.44	21.189	
1,615.0	1,615.0	1,607.0	1,607.0	3.6	6.3	89.52	1.7	199.9	199.9	190.4	9.49	21.076	
1,700.0	1,700.0	1,692.0	1,692.0	3.7	6.6	89.52	1.7	199.9	199.9	190.2	9.78	20.450	
1,710.0	1,710.0	1,702.0	1,702.0	3.7	6.6	89.52	1.7	199.9	199.9	190.1	9.81	20.379	
1,800.0	1,800.0	1,792.0	1,792.0	3.8	6.9	89.52	1.7	199.9	199.9	189.8	10.12	19.751	
1,805.0	1,805.0	1,797.0	1,797.0	3.8	6.9	89.52	1.7	199.9	199.9	189.8	10.14	19.717	
1,900.0	1,900.0	1,892.0	1,892.0	3.9	7.2	89.52	1.7	199.9	199.9	189.5	10.47	19.089	
1,995.0	1,995.0	1,987.0	1,987.0	3.9	7.5	89.52	1.7	199.9	199.9	189.1	10.81	18.492	
2,000.0	2,000.0	1,992.0	1,992.0	3.9	7.5	89.52	1.7	199.9	199.9	189.1	10.83	18.462 CC, ES	
2,090.0	2,090.0	2,082.0	2,082.0	4.1	7.8	104.91	1.7	199.9	200.3	189.1	11.14	17.973	
2,100.0	2,100.0	2,092.0	2,092.0	4.2	7.9	105.00	1.7	199.9	200.4	189.2	11.18	17.925	
2,185.0	2,184.9	2,176.9	2,176.9	4.7	8.2	106.14	1.7	199.9	201.5	190.0	11.49	17.530	
2,200.0	2,199.8	2,191.8	2,191.8	4.8	8.2	106.40	1.7	199.9	201.8	190.2	11.55	17.469	
2,250.0	2,249.7	2,241.7	2,241.7	4.9	8.4	107.44	1.7	199.9	202.9	191.2	11.75	17.264	
2,280.0	2,279.6	2,271.6	2,271.6	5.0	8.5	108.14	1.7	199.9	203.7	191.9	11.88	17.145	
2,300.0	2,299.5	2,291.5	2,291.5	5.0	8.5	108.60	1.7	199.9	204.3	192.3	11.97	17.068	
2,375.0	2,374.2	2,366.2	2,366.2	5.1	8.8	110.32	1.7	199.9	206.5	194.2	12.32	16.759	
2,400.0	2,399.1	2,391.1	2,391.1	5.1	8.9	110.88	1.7	199.9	207.2	194.8	12.44	16.662	
2,470.0	2,468.8	2,460.8	2,460.8	5.2	9.1	112.44	1.7	199.9	209.5	196.7	12.79	16.376	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	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	113.09	1.7	199.9	210.5	197.6	12.95	16.260	
2,535.0	2,533.6	2,524.0	2,524.0	5.3	9.3	113.80	1.7	200.0	211.8	198.7	13.12	16.145	
2,565.0	2,563.5	2,552.0	2,552.0	5.3	9.4	121.06	1.8	200.4	213.4	200.1	13.28	16.072	
2,600.0	2,598.4	2,584.7	2,584.7	5.4	9.5	129.87	2.0	201.1	215.8	202.4	13.46	16.038 SF	
2,660.0	2,658.2	2,640.6	2,640.5	5.6	9.7	144.96	2.7	203.2	221.6	207.8	13.79	16.065	
2,700.0	2,698.0	2,677.7	2,677.6	5.8	9.8	154.27	3.2	205.2	226.4	212.4	14.01	16.166	
2,755.0	2,752.8	2,728.5	2,728.2	6.1	10.0	165.36	4.3	208.6	234.6	220.3	14.28	16.423	
2,800.0	2,797.6	2,769.7	2,769.3	6.4	10.1	172.77	5.3	212.1	242.4	227.9	14.51	16.708	
2,850.0	2,847.3	2,816.4	2,815.7	6.6	10.3	179.37	6.7	216.6	252.3	237.4	14.82	17.019	
2,900.0	2,896.9	2,865.2	2,864.3	6.9	10.5	-175.48	8.1	221.5	262.9	247.8	15.15	17.360	
2,945.0	2,941.5	2,908.9	2,907.8	7.0	10.6	-171.81	9.5	225.9	273.1	257.5	15.57	17.541	
3,000.0	2,995.9	2,962.2	2,960.8	7.2	10.8	-168.31	11.1	231.2	286.2	270.1	16.04	17.839	
3,040.0	3,035.4	3,000.8	2,999.2	7.4	10.9	-166.31	12.2	235.1	296.2	279.8	16.42	18.046	
3,100.0	3,094.4	3,058.4	3,056.5	7.5	11.1	-163.96	14.0	240.8	312.1	295.1	16.98	18.380	
3,135.0	3,128.8	3,091.9	3,089.8	7.6	11.2	-162.88	15.0	244.2	321.8	304.6	17.19	18.714	
3,144.0	3,137.6	3,100.5	3,098.3	7.6	11.2	-162.63	15.2	245.0	324.3	307.1	17.25	18.801	
3,200.0	3,192.5	3,153.9	3,151.4	7.7	11.4	-163.57	16.8	250.4	340.3	322.8	17.56	19.384	
3,230.0	3,221.9	3,182.5	3,179.9	7.8	11.5	-164.04	17.7	253.2	348.9	331.2	17.73	19.684	
3,300.0	3,290.5	3,249.3	3,246.3	8.0	11.8	-165.05	19.7	259.9	369.0	350.9	18.12	20.364	
3,325.0	3,315.0	3,273.1	3,270.0	8.0	11.8	-165.38	20.4	262.3	376.3	358.0	18.27	20.594	
3,400.0	3,388.5	3,344.7	3,341.1	8.2	12.1	-166.31	22.6	269.5	398.0	379.2	18.72	21.261	
3,420.0	3,408.1	3,363.8	3,360.1	8.2	12.1	-166.54	23.1	271.4	403.8	384.9	18.84	21.433	
3,500.0	3,486.5	3,440.1	3,436.0	8.4	12.4	-167.40	25.4	279.0	427.0	407.7	19.32	22.097	
3,515.0	3,501.2	3,454.4	3,450.2	8.5	12.5	-167.55	25.9	280.5	431.4	412.0	19.42	22.218	
3,600.0	3,584.4	3,535.4	3,530.9	8.7	12.7	-168.36	28.3	288.6	456.2	436.3	19.94	22.878	
3,610.0	3,594.2	3,545.0	3,540.4	8.7	12.8	-168.45	28.6	289.5	459.2	439.2	20.00	22.952	
3,700.0	3,682.4	3,630.8	3,625.7	9.0	13.1	-169.20	31.2	298.1	485.5	465.0	20.57	23.606	
3,705.0	3,687.3	3,635.6	3,630.5	9.0	13.1	-169.24	31.3	298.6	487.0	466.4	20.60	23.641	
3,800.0	3,780.4	3,726.2	3,720.6	9.2	13.4	-169.94	34.0	307.7	514.9	493.7	21.20	24.287	
3,895.0	3,873.5	3,816.8	3,810.7	9.5	13.7	-170.57	36.8	316.7	542.9	521.1	21.81	24.892	
3,900.0	3,878.4	3,821.6	3,815.4	9.5	13.7	-170.61	36.9	317.2	544.4	522.5	21.84	24.923	
3,990.0	3,966.6	3,907.4	3,900.8	9.8	14.0	-171.14	39.5	325.8	570.9	548.5	22.42	25.462	
4,000.0	3,976.4	3,917.0	3,910.3	9.8	14.1	-171.20	39.8	326.8	573.9	551.4	22.49	25.520	
4,085.0	4,059.7	3,998.0	3,990.9	10.1	14.3	-171.66	42.2	334.9	599.0	576.0	23.04	25.998	
4,100.0	4,074.4	4,012.4	4,005.2	10.1	14.4	-171.74	42.7	336.3	603.5	580.3	23.14	26.080	
4,180.0	4,152.8	4,088.7	4,081.1	10.4	14.7	-172.13	44.9	344.0	627.1	603.5	23.66	26.502	
4,200.0	4,172.4	4,107.7	4,100.0	10.4	14.7	-172.23	45.5	345.9	633.1	609.3	23.79	26.605	
4,275.0	4,245.9	4,179.3	4,171.2	10.7	15.0	-172.56	47.7	353.0	655.3	631.0	24.29	26.978	
4,300.0	4,270.4	4,203.1	4,194.9	10.7	15.1	-172.67	48.4	355.4	662.7	638.3	24.46	27.099	
4,370.0	4,339.0	4,269.9	4,261.3	11.0	15.3	-172.96	50.4	362.1	683.5	658.6	24.92	27.427	
4,400.0	4,368.4	4,298.5	4,289.7	11.1	15.4	-173.08	51.3	365.0	692.4	667.3	25.12	27.564	
4,465.0	4,432.1	4,360.5	4,351.4	11.3	15.6	-173.32	53.1	371.2	711.7	686.2	25.55	27.852	
4,500.0	4,466.4	4,393.9	4,384.6	11.4	15.7	-173.45	54.1	374.5	722.1	696.3	25.79	28.003	
4,560.0	4,525.2	4,451.1	4,441.5	11.6	15.9	-173.66	55.9	380.2	739.9	713.8	26.19	28.254	
4,600.0	4,564.4	4,489.3	4,479.5	11.7	16.1	-173.79	57.0	384.1	751.8	725.4	26.46	28.417	
4,655.0	4,618.3	4,541.7	4,531.6	11.9	16.3	-173.97	58.6	389.3	768.2	741.4	26.83	28.635	
4,700.0	4,662.4	4,584.7	4,574.3	12.0	16.4	-174.11	59.9	393.6	781.6	754.5	27.13	28.808	
4,750.0	4,711.4	4,632.3	4,621.8	12.2	16.6	-174.26	61.3	398.4	796.5	769.0	27.47	28.996	
4,800.0	4,760.4	4,680.0	4,669.2	12.4	16.7	-174.41	62.7	403.2	811.4	783.6	27.81	29.178	
4,845.0	4,804.4	4,723.0	4,711.9	12.5	16.9	-174.53	64.0	407.4	824.8	796.7	28.11	29.338	
4,900.0	4,858.3	4,775.4	4,764.0	12.7	17.1	-174.68	65.6	412.7	841.2	812.7	28.49	29.529	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #701H - OWB - PWP3													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
4,940.0	4,897.5	4,813.6	4,802.0	12.8	17.2	-174.78	66.8	416.5	853.1	824.3	28.76	29.664		
5,000.0	4,956.3	4,870.8	4,858.9	13.1	17.4	-174.93	68.5	422.2	871.0	841.8	29.17	29.861		
5,035.0	4,990.6	4,904.2	4,892.1	13.2	17.5	-175.02	69.5	425.6	881.4	852.0	29.41	29.974		
5,100.0	5,054.3	4,966.2	4,953.8	13.4	17.8	-175.17	71.3	431.8	900.8	871.0	29.85	30.177		
5,130.0	5,083.7	4,994.8	4,982.2	13.5	17.9	-175.24	72.2	434.7	909.8	879.7	30.06	30.269		
5,200.0	5,152.3	5,061.6	5,048.6	13.7	18.1	-175.39	74.2	441.3	930.7	900.1	30.54	30.477		
5,225.0	5,176.8	5,085.4	5,072.3	13.8	18.2	-175.45	74.9	443.7	938.1	907.4	30.71	30.550		
5,300.0	5,250.3	5,156.9	5,143.5	14.1	18.4	-175.60	77.1	450.9	960.5	929.3	31.22	30.763		
5,320.0	5,269.9	5,176.0	5,162.5	14.2	18.5	-175.64	77.7	452.8	966.5	935.1	31.36	30.818		
5,400.0	5,348.3	5,252.3	5,238.3	14.4	18.8	-175.80	80.0	460.4	990.4	958.5	31.91	31.035		
5,415.0	5,363.0	5,266.6	5,252.6	14.5	18.8	-175.83	80.4	461.9	994.9	962.9	32.02	31.074		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10280-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	89.52	1.4	170.0	170.1					
95.0	95.0	88.0	88.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.00	28.327		
100.0	100.0	93.0	93.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.00	28.327		
190.0	190.0	183.0	183.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.00	28.316		
200.0	200.0	193.0	193.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.00	28.314		
285.0	285.0	278.0	278.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.01	28.292		
300.0	300.0	293.0	293.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.01	28.287		
380.0	380.0	373.0	373.0	3.0	3.0	89.52	1.4	170.0	170.0	164.0	6.02	28.253		
400.0	400.0	393.0	393.0	3.0	3.0	89.52	1.4	170.0	170.0	163.9	6.02	28.244		
475.0	475.0	468.0	468.0	3.0	3.0	89.52	1.4	170.0	170.0	163.9	6.03	28.202		
500.0	500.0	493.0	493.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.03	28.186		
570.0	570.0	563.0	563.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.04	28.136		
600.0	600.0	593.0	593.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.05	28.113		
665.0	665.0	658.0	658.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.06	28.058		
700.0	700.0	693.0	693.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.06	28.026		
760.0	760.0	753.0	753.0	3.1	3.1	89.52	1.4	170.0	170.0	163.9	6.08	27.968		
800.0	800.0	793.0	793.0	3.2	3.2	89.52	1.4	170.0	170.0	163.9	6.09	27.926		
855.0	855.0	848.0	848.0	3.2	3.2	89.52	1.4	170.0	170.0	163.9	6.10	27.864		
900.0	900.0	893.0	893.0	3.2	3.2	89.52	1.4	170.0	170.0	163.9	6.11	27.811		
950.0	950.0	943.0	943.0	3.2	3.2	89.52	1.4	170.0	170.0	163.8	6.13	27.749		
1,000.0	1,000.0	993.0	993.0	3.2	3.2	89.52	1.4	170.0	170.0	163.8	6.14	27.684		
1,045.0	1,045.0	1,038.0	1,038.0	3.3	3.3	89.52	1.4	170.0	170.0	163.8	6.15	27.623		
1,100.0	1,100.0	1,093.0	1,093.0	3.3	3.3	89.52	1.4	170.0	170.0	163.8	6.17	27.545		
1,140.0	1,140.0	1,133.0	1,133.0	3.3	3.3	89.52	1.4	170.0	170.0	163.8	6.18	27.486		
1,200.0	1,200.0	1,193.0	1,193.0	3.4	3.3	89.52	1.4	170.0	170.0	163.8	6.20	27.393		
1,235.0	1,235.0	1,228.0	1,228.0	3.4	3.4	89.52	1.4	170.0	170.0	163.7	6.22	27.338		
1,300.0	1,300.0	1,293.0	1,293.0	3.4	3.4	89.52	1.4	170.0	170.0	163.7	6.24	27.231		
1,330.0	1,330.0	1,323.0	1,323.0	3.4	3.4	89.52	1.4	170.0	170.0	163.7	6.25	27.180		
1,400.0	1,400.0	1,393.0	1,393.0	3.5	3.5	89.52	1.4	170.0	170.0	163.7	6.28	27.058		
1,425.0	1,425.0	1,418.0	1,418.0	3.5	3.5	89.52	1.4	170.0	170.0	163.7	6.29	27.013		
1,500.0	1,500.0	1,493.0	1,493.0	3.5	3.5	89.52	1.4	170.0	170.0	163.6	6.32	26.875		
1,520.0	1,520.0	1,513.0	1,513.0	3.6	3.6	89.52	1.4	170.0	170.0	163.6	6.33	26.837		
1,600.0	1,600.0	1,593.0	1,593.0	3.6	3.6	89.52	1.4	170.0	170.0	163.6	6.37	26.683		
1,615.0	1,615.0	1,608.0	1,608.0	3.6	3.6	89.52	1.4	170.0	170.0	163.6	6.38	26.653		
1,700.0	1,700.0	1,693.0	1,693.0	3.7	3.7	89.52	1.4	170.0	170.0	163.5	6.42	26.482		
1,710.0	1,710.0	1,703.0	1,703.0	3.7	3.7	89.52	1.4	170.0	170.0	163.5	6.42	26.462		
1,800.0	1,800.0	1,793.0	1,793.0	3.8	3.8	89.52	1.4	170.0	170.0	163.5	6.47	26.274		
1,805.0	1,805.0	1,798.0	1,798.0	3.8	3.8	89.52	1.4	170.0	170.0	163.5	6.47	26.263		
1,900.0	1,900.0	1,893.0	1,893.0	3.9	3.8	89.52	1.4	170.0	170.0	163.4	6.52	26.059		
1,995.0	1,995.0	1,988.0	1,988.0	3.9	3.9	89.52	1.4	170.0	170.0	163.4	6.58	25.848		
2,000.0	2,000.0	1,993.0	1,993.0	3.9	3.9	89.52	1.4	170.0	170.0	163.4	6.58	25.837 CC, ES		
2,090.0	2,090.0	2,083.0	2,083.0	4.1	4.0	104.97	1.4	170.0	170.3	163.7	6.62	25.721		
2,100.0	2,100.0	2,093.0	2,093.0	4.2	4.0	105.08	1.4	170.0	170.4	163.8	6.63	25.715		
2,185.0	2,184.9	2,177.9	2,177.9	4.7	4.1	106.42	1.4	170.0	171.6	164.9	6.69	25.653		
2,200.0	2,199.8	2,192.8	2,192.8	4.8	4.1	106.73	1.4	170.0	171.8	165.1	6.70	25.651		
2,250.0	2,249.7	2,242.7	2,242.7	4.9	4.2	107.95	1.4	170.0	173.0	166.3	6.75	25.615		
2,280.0	2,279.6	2,272.6	2,272.6	5.0	4.2	108.77	1.4	170.0	173.8	167.1	6.79	25.585		
2,300.0	2,299.5	2,292.5	2,292.5	5.0	4.2	109.31	1.4	170.0	174.4	167.6	6.82	25.564		
2,375.0	2,374.2	2,367.2	2,367.2	5.1	4.3	111.30	1.4	170.0	176.7	169.7	6.96	25.399		
2,400.0	2,399.1	2,392.1	2,392.1	5.1	4.3	111.96	1.4	170.0	177.5	170.5	7.00	25.348		
2,470.0	2,468.8	2,461.8	2,461.8	5.2	4.4	113.75	1.4	170.0	179.9	172.7	7.16	25.129		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10280-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,500.0	2,498.7	2,491.7	2,491.7	5.3	4.4	114.51	1.4	170.0	180.9	173.7	7.23	25.039	
2,535.0	2,533.6	2,526.0	2,526.0	5.3	4.4	115.33	1.5	170.0	182.3	175.0	7.31	24.940	
2,565.0	2,563.5	2,555.3	2,555.3	5.3	4.4	122.62	1.9	170.2	183.7	176.3	7.39	24.870	
2,600.0	2,598.4	2,589.5	2,589.5	5.4	4.5	131.38	2.6	170.7	185.7	178.2	7.47	24.854 SF	
2,660.0	2,658.2	2,648.1	2,648.1	5.6	4.5	146.16	4.7	171.9	190.2	182.6	7.64	24.892	
2,700.0	2,698.0	2,687.1	2,687.0	5.8	4.6	155.13	6.7	173.0	193.9	186.2	7.75	25.032	
2,755.0	2,752.8	2,741.5	2,741.3	6.1	4.6	165.64	10.0	174.9	199.8	191.9	7.87	25.380	
2,800.0	2,797.6	2,786.1	2,785.8	6.4	4.7	172.63	12.7	176.5	205.2	197.2	7.98	25.722	
2,850.0	2,847.3	2,835.6	2,835.1	6.6	4.7	178.81	15.7	178.2	211.8	203.7	8.16	25.963	
2,900.0	2,896.9	2,885.0	2,884.4	6.9	4.7	-176.42	18.6	179.9	219.1	210.8	8.33	26.297	
2,945.0	2,941.5	2,929.3	2,928.5	7.0	4.8	-173.10	21.3	181.4	226.3	217.6	8.62	26.251	
3,000.0	2,995.9	2,983.2	2,982.4	7.2	4.8	-170.04	24.6	183.3	235.8	226.8	8.93	26.396	
3,040.0	3,035.4	3,022.4	3,021.4	7.4	4.9	-168.35	26.9	184.7	243.2	234.0	9.19	26.474	
3,100.0	3,094.4	3,080.8	3,079.7	7.5	4.9	-166.47	30.5	186.7	255.3	245.7	9.58	26.649	
3,135.0	3,128.8	3,114.8	3,113.6	7.6	5.0	-165.66	32.5	187.9	262.8	253.1	9.70	27.104	
3,144.0	3,137.6	3,123.5	3,122.3	7.6	5.0	-165.48	33.1	188.2	264.8	255.1	9.73	27.225	
3,200.0	3,192.5	3,177.8	3,176.4	7.7	5.0	-166.77	36.3	190.1	277.5	267.6	9.88	28.078	
3,230.0	3,221.9	3,206.8	3,205.4	7.8	5.0	-167.42	38.1	191.1	284.3	274.3	9.97	28.513	
3,300.0	3,290.5	3,274.6	3,273.0	8.0	5.1	-168.81	42.2	193.5	300.3	290.1	10.18	29.495	
3,325.0	3,315.0	3,298.8	3,297.2	8.0	5.1	-169.27	43.7	194.3	306.0	295.7	10.26	29.819	
3,400.0	3,388.5	3,371.4	3,369.6	8.2	5.2	-170.56	48.0	196.9	323.4	312.9	10.51	30.756	
3,420.0	3,408.1	3,390.8	3,389.0	8.2	5.2	-170.88	49.2	197.5	328.0	317.4	10.58	30.995	
3,500.0	3,486.5	3,468.3	3,466.3	8.4	5.3	-172.07	53.9	200.2	346.7	335.9	10.86	31.916	
3,515.0	3,501.2	3,482.8	3,480.7	8.5	5.3	-172.28	54.8	200.7	350.3	339.3	10.92	32.081	
3,600.0	3,584.4	3,565.1	3,562.9	8.7	5.4	-173.40	59.7	203.6	370.3	359.1	11.23	32.983	
3,610.0	3,594.2	3,574.8	3,572.5	8.7	5.4	-173.52	60.3	204.0	372.7	361.4	11.26	33.085	
3,700.0	3,682.4	3,662.0	3,659.5	9.0	5.5	-174.57	65.6	207.0	394.0	382.4	11.60	33.966	
3,705.0	3,687.3	3,666.8	3,664.3	9.0	5.5	-174.62	65.9	207.2	395.2	383.6	11.62	34.013	
3,800.0	3,780.4	3,758.8	3,756.1	9.2	5.6	-175.60	71.4	210.4	417.9	405.9	11.98	34.872	
3,895.0	3,873.5	3,850.8	3,847.9	9.5	5.7	-176.48	77.0	213.6	440.7	428.3	12.36	35.668	
3,900.0	3,878.4	3,855.7	3,852.7	9.5	5.7	-176.53	77.3	213.7	441.9	429.5	12.38	35.709	
3,990.0	3,966.6	3,942.8	3,939.6	9.8	5.8	-177.27	82.6	216.8	463.6	450.8	12.73	36.407	
4,000.0	3,976.4	3,952.5	3,949.3	9.8	5.8	-177.35	83.1	217.1	466.0	453.2	12.77	36.481	
4,085.0	4,059.7	4,034.8	4,031.4	10.1	5.9	-177.99	88.1	220.0	486.5	473.4	13.12	37.092	
4,100.0	4,074.4	4,049.4	4,045.9	10.1	5.9	-178.10	89.0	220.5	490.1	477.0	13.18	37.196	
4,180.0	4,152.8	4,126.8	4,123.2	10.4	6.0	-178.65	93.7	223.2	509.5	496.0	13.50	37.730	
4,200.0	4,172.4	4,146.2	4,142.5	10.4	6.0	-178.78	94.8	223.9	514.4	500.8	13.59	37.859	
4,275.0	4,245.9	4,218.9	4,215.0	10.7	6.1	-179.25	99.2	226.4	532.6	518.7	13.90	38.324	
4,300.0	4,270.4	4,243.1	4,239.1	10.7	6.1	-179.40	100.7	227.3	538.7	524.7	14.00	38.473	
4,370.0	4,339.0	4,310.9	4,306.8	11.0	6.2	-179.79	104.8	229.6	555.7	541.4	14.29	38.877	
4,400.0	4,368.4	4,339.9	4,335.8	11.1	6.2	-179.96	106.5	230.6	563.0	548.6	14.42	39.044	
4,465.0	4,432.1	4,402.9	4,398.5	11.3	6.3	179.70	110.4	232.8	578.9	564.2	14.70	39.394	
4,500.0	4,466.4	4,436.8	4,432.4	11.4	6.3	179.52	112.4	234.0	587.4	572.6	14.84	39.576	
4,560.0	4,525.2	4,494.9	4,490.3	11.6	6.4	179.23	115.9	236.0	602.1	587.0	15.10	39.876	
4,600.0	4,564.4	4,533.6	4,529.0	11.7	6.4	179.05	118.2	237.4	611.9	596.6	15.27	40.070	
4,655.0	4,618.3	4,586.9	4,582.1	11.9	6.5	178.80	121.5	239.2	625.3	609.8	15.51	40.328	
4,700.0	4,662.4	4,630.4	4,625.6	12.0	6.5	178.61	124.1	240.8	636.4	620.7	15.70	40.532	
4,750.0	4,711.4	4,678.9	4,673.9	12.2	6.6	178.40	127.0	242.5	648.6	632.7	15.92	40.751	
4,800.0	4,760.4	4,728.1	4,723.0	12.4	6.6	178.20	130.0	244.2	660.9	644.7	16.14	40.956	
4,845.0	4,804.4	4,775.5	4,770.3	12.5	6.7	178.03	132.6	245.7	671.7	655.4	16.34	41.103	
4,900.0	4,858.3	4,833.6	4,828.3	12.7	6.8	177.86	135.4	247.3	684.7	668.1	16.59	41.259	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #702H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10280-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
4,940.0	4,897.5	4,876.0	4,870.7	12.8	6.8	177.77	137.0	248.2	693.9	677.1	16.78	41.355
5,000.0	4,956.3	4,939.8	4,934.4	13.1	6.9	177.67	139.1	249.4	707.3	690.2	17.05	41.474
5,035.0	4,990.6	4,977.1	4,971.7	13.2	6.9	177.63	139.9	249.9	714.9	697.7	17.21	41.530
5,100.0	5,054.3	5,046.6	5,041.2	13.4	7.0	177.60	141.1	250.6	728.6	711.1	17.51	41.607
5,130.0	5,083.7	5,078.8	5,073.4	13.5	7.0	177.61	141.3	250.7	734.8	717.2	17.65	41.631
5,200.0	5,152.3	5,150.7	5,145.3	13.7	7.1	177.65	141.4	250.8	748.8	730.9	17.95	41.710
5,225.0	5,176.8	5,175.2	5,169.8	13.8	7.2	177.66	141.4	250.8	753.8	735.8	18.06	41.748
5,300.0	5,250.3	5,248.7	5,243.3	14.1	7.2	177.71	141.4	250.8	768.8	750.4	18.37	41.859
5,320.0	5,269.9	5,268.3	5,262.9	14.2	7.3	177.72	141.4	250.8	772.7	754.3	18.45	41.887
5,400.0	5,348.3	5,346.7	5,341.3	14.4	7.4	177.77	141.4	250.8	788.7	769.9	18.78	41.998
5,415.0	5,363.0	5,361.4	5,356.0	14.5	7.4	177.77	141.4	250.8	791.7	772.8	18.84	42.017
5,500.0	5,446.3	5,444.7	5,439.3	14.8	7.5	177.82	141.4	250.8	808.6	789.4	19.19	42.127
5,510.0	5,456.1	5,454.5	5,449.1	14.8	7.5	177.83	141.4	250.8	810.6	791.4	19.24	42.139
5,600.0	5,544.3	5,542.7	5,537.3	15.1	7.6	177.87	141.4	250.8	828.5	808.9	19.61	42.247
5,605.0	5,549.2	5,547.6	5,542.2	15.2	7.6	177.88	141.4	250.8	829.5	809.9	19.63	42.253
5,700.0	5,642.3	5,640.7	5,635.3	15.5	7.7	177.92	141.4	250.8	848.5	828.4	20.03	42.360
5,795.0	5,735.4	5,733.8	5,728.4	15.8	7.8	177.97	141.4	250.8	867.4	847.0	20.43	42.460
5,800.0	5,740.3	5,738.7	5,733.3	15.9	7.8	177.97	141.4	250.8	868.4	847.9	20.45	42.465
5,890.0	5,828.5	5,826.9	5,821.5	16.2	7.9	178.01	141.4	250.8	886.3	865.5	20.83	42.554
5,900.0	5,838.3	5,836.7	5,831.3	16.2	7.9	178.02	141.4	250.8	888.3	867.4	20.87	42.564
5,985.0	5,921.6	5,920.0	5,914.6	16.5	8.0	178.05	141.4	250.8	905.2	884.0	21.23	42.643
6,000.0	5,936.3	5,934.7	5,929.3	16.6	8.1	178.06	141.4	250.8	908.2	886.9	21.29	42.656
6,080.0	6,014.7	6,013.1	6,007.7	16.9	8.2	178.09	141.4	250.8	924.2	902.5	21.63	42.726
6,100.0	6,034.2	6,032.7	6,027.2	16.9	8.2	178.10	141.4	250.8	928.2	906.4	21.72	42.743
6,175.0	6,107.7	6,106.1	6,100.7	17.2	8.3	178.13	141.4	250.8	943.1	921.1	22.03	42.804
6,200.0	6,132.2	6,130.6	6,125.2	17.3	8.3	178.14	141.4	250.8	948.1	926.0	22.14	42.824
6,270.0	6,200.8	6,199.2	6,193.8	17.6	8.4	178.17	141.4	250.8	962.0	939.6	22.44	42.878
6,300.0	6,230.2	6,228.6	6,223.2	17.7	8.4	178.18	141.4	250.8	968.0	945.5	22.56	42.901
6,365.0	6,293.9	6,292.3	6,286.9	17.9	8.5	178.20	141.4	250.8	981.0	958.1	22.84	42.948
6,400.0	6,328.2	6,326.6	6,321.2	18.0	8.5	178.22	141.4	250.8	988.0	965.0	22.99	42.973
6,460.0	6,387.0	6,385.4	6,380.0	18.3	8.6	178.24	141.4	250.8	999.9	976.7	23.25	43.014

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 10092-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.51	1.2	140.0	140.3					
95.0	95.0	86.0	86.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.00	23.339		
100.0	100.0	91.0	91.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.00	23.338		
190.0	190.0	181.0	181.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.00	23.330		
200.0	200.0	191.0	191.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.00	23.328		
285.0	285.0	276.0	276.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.01	23.310		
300.0	300.0	291.0	291.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.01	23.305		
380.0	380.0	371.0	371.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.02	23.278		
400.0	400.0	391.0	391.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.02	23.270		
475.0	475.0	466.0	466.0	3.0	3.0	89.51	1.2	140.0	140.0	134.0	6.03	23.236		
500.0	500.0	491.0	491.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.03	23.222		
570.0	570.0	561.0	561.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.04	23.182		
600.0	600.0	591.0	591.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.05	23.163		
665.0	665.0	656.0	656.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.06	23.118		
700.0	700.0	691.0	691.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.06	23.091		
760.0	760.0	751.0	751.0	3.1	3.1	89.51	1.2	140.0	140.0	134.0	6.08	23.043		
800.0	800.0	791.0	791.0	3.2	3.1	89.51	1.2	140.0	140.0	133.9	6.09	23.008		
855.0	855.0	846.0	846.0	3.2	3.2	89.51	1.2	140.0	140.0	133.9	6.10	22.958		
900.0	900.0	891.0	891.0	3.2	3.2	89.51	1.2	140.0	140.0	133.9	6.11	22.914		
950.0	950.0	941.0	941.0	3.2	3.2	89.51	1.2	140.0	140.0	133.9	6.12	22.863		
1,000.0	1,000.0	991.0	991.0	3.2	3.2	89.51	1.2	140.0	140.0	133.9	6.14	22.810		
1,045.0	1,045.0	1,036.0	1,036.0	3.3	3.3	89.51	1.2	140.0	140.0	133.9	6.15	22.759		
1,100.0	1,100.0	1,091.0	1,091.0	3.3	3.3	89.51	1.2	140.0	140.0	133.9	6.17	22.695		
1,140.0	1,140.0	1,131.0	1,131.0	3.3	3.3	89.51	1.2	140.0	140.0	133.9	6.18	22.646		
1,200.0	1,200.0	1,191.0	1,191.0	3.4	3.3	89.51	1.2	140.0	140.0	133.8	6.20	22.570		
1,235.0	1,235.0	1,226.0	1,226.0	3.4	3.4	89.51	1.2	140.0	140.0	133.8	6.22	22.524		
1,300.0	1,300.0	1,291.0	1,291.0	3.4	3.4	89.51	1.2	140.0	140.0	133.8	6.24	22.436		
1,330.0	1,330.0	1,321.0	1,321.0	3.4	3.4	89.51	1.2	140.0	140.0	133.8	6.25	22.394		
1,400.0	1,400.0	1,391.0	1,391.0	3.5	3.5	89.51	1.2	140.0	140.0	133.8	6.28	22.294		
1,425.0	1,425.0	1,416.0	1,416.0	3.5	3.5	89.51	1.2	140.0	140.0	133.7	6.29	22.257		
1,500.0	1,500.0	1,491.0	1,491.0	3.5	3.5	89.51	1.2	140.0	140.0	133.7	6.32	22.143		
1,520.0	1,520.0	1,511.0	1,511.0	3.6	3.6	89.51	1.2	140.0	140.0	133.7	6.33	22.112		
1,600.0	1,600.0	1,591.0	1,591.0	3.6	3.6	89.51	1.2	140.0	140.0	133.7	6.37	21.985		
1,615.0	1,615.0	1,606.0	1,606.0	3.6	3.6	89.51	1.2	140.0	140.0	133.7	6.38	21.960		
1,700.0	1,700.0	1,691.0	1,691.0	3.7	3.7	89.51	1.2	140.0	140.0	133.6	6.42	21.820		
1,710.0	1,710.0	1,701.0	1,701.0	3.7	3.7	89.51	1.2	140.0	140.0	133.6	6.42	21.803		
1,800.0	1,800.0	1,791.0	1,791.0	3.8	3.8	89.51	1.2	140.0	140.0	133.6	6.47	21.648		
1,805.0	1,805.0	1,796.0	1,796.0	3.8	3.8	89.51	1.2	140.0	140.0	133.6	6.47	21.639		
1,900.0	1,900.0	1,891.0	1,891.0	3.9	3.8	89.51	1.2	140.0	140.0	133.5	6.52	21.471		
1,995.0	1,995.0	1,986.0	1,986.0	3.9	3.9	89.51	1.2	140.0	140.0	133.5	6.58	21.297		
2,000.0	2,000.0	1,991.0	1,991.0	3.9	3.9	89.51	1.2	140.0	140.0	133.5	6.58	21.288	CC, ES	
2,090.0	2,090.0	2,081.0	2,081.0	4.1	4.0	105.06	1.2	140.0	140.4	133.8	6.62	21.202		
2,100.0	2,100.0	2,091.0	2,091.0	4.2	4.0	105.19	1.2	140.0	140.5	133.9	6.63	21.199		
2,185.0	2,184.9	2,175.9	2,175.9	4.7	4.1	106.82	1.2	140.0	141.6	135.0	6.69	21.178		
2,200.0	2,199.8	2,190.8	2,190.8	4.8	4.1	107.20	1.2	140.0	141.9	135.2	6.70	21.183		
2,250.0	2,249.7	2,240.7	2,240.7	4.9	4.2	108.67	1.2	140.0	143.2	136.4	6.76	21.180		
2,280.0	2,279.6	2,270.6	2,270.6	5.0	4.2	109.66	1.2	140.0	144.0	137.2	6.80	21.175		
2,300.0	2,299.5	2,290.5	2,290.5	5.0	4.2	110.30	1.2	140.0	144.6	137.8	6.83	21.170		
2,375.0	2,374.2	2,365.2	2,365.2	5.1	4.3	112.69	1.2	140.0	147.0	140.0	6.97	21.084		
2,400.0	2,399.1	2,390.1	2,390.1	5.1	4.3	113.46	1.2	140.0	147.9	140.9	7.02	21.060		
2,470.0	2,468.8	2,459.8	2,459.8	5.2	4.4	115.59	1.2	140.0	150.4	143.2	7.19	20.932		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,498.7	2,489.7	2,489.7	5.3	4.4	116.48	1.2	140.0	151.6	144.3	7.26	20.881		
2,535.0	2,533.6	2,526.0	2,526.0	5.3	4.4	117.53	1.2	139.9	152.8	145.5	7.35	20.803		
2,565.0	2,563.5	2,557.5	2,557.5	5.3	4.4	125.07	1.4	139.5	153.8	146.3	7.43	20.686		
2,600.0	2,598.4	2,594.4	2,594.4	5.4	4.5	134.18	1.8	138.6	154.7	147.2	7.53	20.535		
2,660.0	2,658.2	2,657.7	2,657.6	5.6	4.5	149.66	3.0	136.1	156.0	148.3	7.73	20.192		
2,700.0	2,698.0	2,700.0	2,699.8	5.8	4.5	159.15	4.1	133.7	156.6	148.7	7.84	19.964		
2,755.0	2,752.8	2,757.7	2,757.3	6.1	4.6	170.39	6.0	129.5	157.1	149.1	8.00	19.644		
2,800.0	2,797.6	2,802.7	2,802.1	6.4	4.6	177.85	7.6	125.9	157.6	149.5	8.12	19.416		
2,850.0	2,847.3	2,852.6	2,851.9	6.6	4.6	-175.55	9.5	122.0	158.8	150.4	8.34	19.043		
2,900.0	2,896.9	2,902.6	2,901.7	6.9	4.7	-170.48	11.3	118.0	160.5	152.0	8.54	18.786		
2,945.0	2,941.5	2,947.5	2,946.4	7.0	4.7	-167.01	12.9	114.5	162.6	153.7	8.87	18.316		
3,000.0	2,995.9	3,002.3	3,001.0	7.2	4.7	-163.89	14.9	110.1	165.7	156.5	9.20	18.013		
3,040.0	3,035.4	3,042.1	3,040.7	7.4	4.8	-162.26	16.3	107.0	168.5	159.1	9.46	17.817		
3,100.0	3,094.4	3,101.8	3,100.1	7.5	4.8	-160.60	18.5	102.2	173.5	163.6	9.86	17.594		
3,135.0	3,128.8	3,136.5	3,134.7	7.6	4.8	-160.00	19.8	99.5	176.9	166.9	9.97	17.749		
3,144.0	3,137.6	3,145.4	3,143.5	7.6	4.8	-159.88	20.1	98.8	177.8	167.8	9.99	17.794		
3,200.0	3,192.5	3,200.8	3,198.8	7.7	4.9	-161.47	22.1	94.4	183.7	173.6	10.12	18.150		
3,230.0	3,221.9	3,230.6	3,228.4	7.8	4.9	-162.29	23.2	92.0	186.9	176.7	10.20	18.330		
3,300.0	3,290.5	3,299.9	3,297.5	8.0	4.9	-164.08	25.7	86.5	194.6	184.2	10.38	18.742		
3,325.0	3,315.0	3,324.6	3,322.1	8.0	5.0	-164.68	26.6	84.6	197.4	186.9	10.46	18.875		
3,400.0	3,388.5	3,398.9	3,396.1	8.2	5.0	-166.41	29.3	78.7	205.8	195.1	10.68	19.267		
3,420.0	3,408.1	3,418.7	3,415.9	8.2	5.0	-166.84	30.0	77.1	208.1	197.3	10.74	19.367		
3,500.0	3,486.5	3,498.0	3,494.8	8.4	5.1	-168.49	32.9	70.9	217.3	206.3	11.00	19.759		
3,515.0	3,501.2	3,512.8	3,509.6	8.5	5.1	-168.78	33.4	69.7	219.1	208.0	11.05	19.829		
3,600.0	3,584.4	3,597.0	3,593.4	8.7	5.2	-170.36	36.5	63.0	229.1	217.8	11.33	20.220		
3,610.0	3,594.2	3,606.9	3,603.3	8.7	5.2	-170.54	36.8	62.2	230.3	218.9	11.37	20.264		
3,700.0	3,682.4	3,696.0	3,692.1	9.0	5.3	-172.05	40.1	55.2	241.1	229.4	11.68	20.652		
3,705.0	3,687.3	3,701.0	3,697.0	9.0	5.3	-172.13	40.2	54.8	241.7	230.0	11.69	20.673		
3,800.0	3,780.4	3,795.1	3,790.8	9.2	5.3	-173.58	43.7	47.3	253.3	241.3	12.03	21.057		
3,895.0	3,873.5	3,889.1	3,884.5	9.5	5.4	-174.91	47.1	39.9	265.0	252.7	12.38	21.417		
3,900.0	3,878.4	3,894.1	3,889.4	9.5	5.4	-174.97	47.3	39.5	265.7	253.3	12.39	21.436		
3,990.0	3,966.6	3,983.2	3,978.2	9.8	5.5	-176.11	50.5	32.4	276.9	264.2	12.73	21.757		
4,000.0	3,976.4	3,993.1	3,988.1	9.8	5.5	-176.24	50.9	31.6	278.2	265.4	12.76	21.791		
4,085.0	4,059.7	4,077.3	4,071.9	10.1	5.6	-177.23	53.9	24.9	288.9	275.8	13.09	22.076		
4,100.0	4,074.4	4,092.2	4,086.7	10.1	5.6	-177.39	54.4	23.8	290.8	277.6	13.14	22.125		
4,180.0	4,152.8	4,171.4	4,165.7	10.4	5.7	-178.25	57.3	17.5	300.9	287.5	13.45	22.376		
4,200.0	4,172.4	4,191.2	4,185.4	10.4	5.7	-178.45	58.0	15.9	303.5	290.0	13.53	22.437		
4,275.0	4,245.9	4,265.5	4,259.4	10.7	5.8	-179.19	60.7	10.0	313.1	299.3	13.82	22.659		
4,300.0	4,270.4	4,290.2	4,284.1	10.7	5.8	-179.43	61.6	8.1	316.3	302.4	13.92	22.731		
4,370.0	4,339.0	4,359.6	4,353.1	11.0	5.8	179.94	64.2	2.6	325.3	311.1	14.19	22.924		
4,400.0	4,368.4	4,389.3	4,382.7	11.1	5.9	179.68	65.2	0.2	329.2	314.9	14.31	23.006		
4,465.0	4,432.1	4,453.7	4,446.9	11.3	5.9	179.13	67.6	-4.9	337.6	323.1	14.57	23.175		
4,500.0	4,466.4	4,488.3	4,481.4	11.4	6.0	178.84	68.8	-7.6	342.2	327.5	14.71	23.264		
4,560.0	4,525.2	4,547.7	4,540.6	11.6	6.0	178.38	71.0	-12.3	350.0	335.1	14.95	23.411		
4,600.0	4,564.4	4,587.4	4,580.0	11.7	6.1	178.07	72.4	-15.5	355.2	340.1	15.11	23.506		
4,655.0	4,618.3	4,641.8	4,634.3	11.9	6.1	177.67	74.4	-19.8	362.4	347.1	15.34	23.633		
4,700.0	4,662.4	4,686.4	4,678.7	12.0	6.2	177.36	76.0	-23.3	368.3	352.8	15.52	23.734		
4,750.0	4,711.4	4,735.9	4,728.0	12.2	6.2	177.02	77.8	-27.2	374.9	359.2	15.72	23.842		
4,800.0	4,760.4	4,785.4	4,777.4	12.4	6.3	176.69	79.6	-31.2	381.5	365.6	15.93	23.948		
4,845.0	4,804.4	4,830.0	4,821.8	12.5	6.3	176.41	81.2	-34.7	387.4	371.3	16.12	24.039		
4,900.0	4,858.3	4,884.5	4,876.0	12.7	6.4	176.07	83.2	-39.0	394.7	378.3	16.34	24.149		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,940.0	4,897.5	4,924.1	4,915.5	12.8	6.4	175.83	84.6	-42.1	400.0	383.5	16.51	24.226	
5,000.0	4,956.3	4,983.5	4,974.7	13.1	6.5	175.49	86.8	-46.9	407.9	391.2	16.76	24.338	
5,035.0	4,990.6	5,018.2	5,009.2	13.2	6.5	175.29	88.1	-49.6	412.6	395.7	16.91	24.401	
5,100.0	5,054.3	5,082.5	5,073.3	13.4	6.6	174.94	90.4	-54.7	421.2	404.0	17.18	24.516	
5,130.0	5,083.7	5,112.3	5,102.9	13.5	6.6	174.79	91.5	-57.1	425.2	407.9	17.31	24.567	
5,200.0	5,152.3	5,181.6	5,172.0	13.7	6.7	174.43	94.0	-62.6	434.5	416.9	17.60	24.683	
5,225.0	5,176.8	5,206.3	5,196.7	13.8	6.7	174.31	94.9	-64.5	437.9	420.1	17.71	24.723	
5,300.0	5,250.3	5,280.6	5,270.7	14.1	6.8	173.95	97.6	-70.4	447.9	429.8	18.03	24.841	
5,320.0	5,269.9	5,300.4	5,290.4	14.2	6.8	173.86	98.3	-72.0	450.5	432.4	18.11	24.871	
5,400.0	5,348.3	5,379.7	5,369.3	14.4	6.9	173.50	101.2	-78.2	461.2	442.8	18.46	24.989	
5,415.0	5,363.0	5,394.5	5,384.1	14.5	6.9	173.43	101.7	-79.4	463.3	444.7	18.52	25.011	
5,500.0	5,446.3	5,478.7	5,468.0	14.8	7.0	173.07	104.8	-86.1	474.6	455.8	18.89	25.129	
5,510.0	5,456.1	5,488.6	5,477.9	14.8	7.0	173.03	105.1	-86.9	476.0	457.1	18.93	25.143	
5,600.0	5,544.3	5,577.7	5,566.7	15.1	7.1	172.67	108.4	-93.9	488.1	468.8	19.32	25.262	
5,605.0	5,549.2	5,582.7	5,571.6	15.2	7.1	172.65	108.6	-94.3	488.7	469.4	19.34	25.268	
5,700.0	5,642.3	5,676.8	5,665.3	15.5	7.2	172.28	112.0	-101.8	501.5	481.8	19.76	25.386	
5,795.0	5,735.4	5,770.9	5,759.0	15.8	7.3	171.94	115.4	-109.2	514.3	494.2	20.17	25.498	
5,800.0	5,740.3	5,775.8	5,764.0	15.9	7.3	171.92	115.6	-109.6	515.0	494.8	20.19	25.504	
5,890.0	5,828.5	5,864.9	5,852.8	16.2	7.4	171.61	118.8	-116.7	527.1	506.5	20.59	25.604	
5,900.0	5,838.3	5,874.8	5,862.6	16.2	7.4	171.58	119.2	-117.5	528.5	507.9	20.63	25.615	
5,985.0	5,921.6	5,959.0	5,946.5	16.5	7.5	171.30	122.2	-124.2	540.0	519.0	21.01	25.704	
6,000.0	5,936.3	5,973.9	5,961.3	16.6	7.5	171.25	122.8	-125.3	542.0	520.9	21.07	25.720	
6,080.0	6,014.7	6,053.1	6,040.2	16.9	7.6	171.00	125.6	-131.6	552.8	531.4	21.43	25.799	
6,100.0	6,034.2	6,072.9	6,060.0	16.9	7.6	170.94	126.3	-133.2	555.5	534.0	21.52	25.819	
6,175.0	6,107.7	6,147.2	6,133.9	17.2	7.7	170.71	129.0	-139.1	565.7	543.8	21.85	25.889	
6,200.0	6,132.2	6,172.0	6,158.6	17.3	7.7	170.64	129.9	-141.0	569.1	547.1	21.96	25.912	
6,270.0	6,200.8	6,236.9	6,223.4	17.6	7.8	170.48	132.2	-145.9	578.8	556.5	22.26	26.001	
6,300.0	6,230.2	6,264.6	6,251.0	17.7	7.8	170.42	133.0	-147.8	583.1	560.7	22.39	26.046	
6,365.0	6,293.9	6,324.5	6,310.7	17.9	7.9	170.34	134.7	-151.4	592.9	570.2	22.67	26.157	
6,400.0	6,328.2	6,356.7	6,342.9	18.0	7.9	170.32	135.5	-153.1	598.3	575.5	22.82	26.226	
6,460.0	6,387.0	6,411.8	6,397.9	18.3	8.0	170.31	136.6	-155.7	608.0	584.9	23.07	26.354	
6,500.0	6,426.2	6,448.5	6,434.6	18.4	8.0	170.32	137.3	-157.1	614.7	591.4	23.24	26.448	
6,555.0	6,480.1	6,500.0	6,486.0	18.6	8.1	170.36	138.1	-158.7	624.1	600.7	23.48	26.582	
6,600.0	6,524.2	6,539.9	6,525.9	18.8	8.1	170.41	138.5	-159.7	632.1	608.5	23.67	26.708	
6,650.0	6,573.2	6,585.4	6,571.5	19.0	8.2	170.49	138.9	-160.6	641.3	617.4	23.88	26.851	
6,700.0	6,622.2	6,630.9	6,616.9	19.1	8.2	170.59	139.1	-161.0	650.7	626.6	24.09	27.010	
6,745.0	6,666.3	6,671.7	6,657.7	19.3	8.3	170.70	139.2	-161.2	659.4	635.1	24.28	27.162	
6,800.0	6,720.2	6,725.2	6,711.2	19.5	8.3	170.85	139.2	-161.2	670.2	645.7	24.51	27.350	
6,840.0	6,759.4	6,764.4	6,750.4	19.7	8.4	170.95	139.2	-161.2	678.1	653.4	24.67	27.485	
6,900.0	6,818.2	6,823.2	6,809.2	19.9	8.4	171.11	139.2	-161.2	689.9	665.0	24.92	27.683	
6,935.0	6,852.5	6,857.5	6,843.5	20.0	8.5	171.20	139.2	-161.2	696.8	671.8	25.07	27.797	
7,000.0	6,916.2	6,921.2	6,907.2	20.2	8.5	171.36	139.2	-161.2	709.6	684.3	25.34	28.004	
7,030.0	6,945.6	6,950.6	6,936.6	20.4	8.6	171.43	139.2	-161.2	715.6	690.1	25.47	28.098	
7,100.0	7,014.2	7,019.2	7,005.2	20.6	8.7	171.59	139.2	-161.2	729.4	703.6	25.76	28.315	
7,125.0	7,038.7	7,043.7	7,029.7	20.7	8.7	171.65	139.2	-161.2	734.3	708.4	25.86	28.390	
7,200.0	7,112.2	7,117.2	7,103.2	21.0	8.8	171.82	139.2	-161.2	749.1	722.9	26.18	28.615	
7,220.0	7,131.8	7,136.8	7,122.8	21.1	8.8	171.86	139.2	-161.2	753.1	726.8	26.26	28.673	
7,300.0	7,210.2	7,215.1	7,201.2	21.4	8.9	172.03	139.2	-161.2	768.9	742.3	26.60	28.905	
7,315.0	7,224.9	7,229.8	7,215.9	21.4	8.9	172.06	139.2	-161.2	771.8	745.2	26.66	28.947	
7,400.0	7,308.1	7,313.1	7,299.1	21.7	9.0	172.23	139.2	-161.2	788.6	761.6	27.02	29.186	
7,410.0	7,317.9	7,322.9	7,308.9	21.8	9.0	172.25	139.2	-161.2	790.6	763.5	27.06	29.213	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
7,500.0	7,406.1	7,411.1	7,397.1	22.1	9.1	172.42	139.2	-161.2	808.4	780.9	27.44	29.457		
7,505.0	7,411.0	7,416.0	7,402.0	22.1	9.1	172.43	139.2	-161.2	809.4	781.9	27.46	29.471		
7,600.0	7,504.1	7,509.1	7,495.1	22.5	9.2	172.60	139.2	-161.2	828.2	800.3	27.87	29.720		
7,648.7	7,551.8	7,556.8	7,542.8	22.7	9.2	172.69	139.2	-161.2	837.8	809.7	28.07	29.848		
7,695.0	7,597.3	7,602.3	7,588.3	22.8	9.3	172.79	139.2	-161.2	846.6	818.3	28.26	29.953		
7,700.0	7,602.2	7,607.2	7,593.2	22.8	9.3	172.80	139.2	-161.2	847.5	819.2	28.28	29.963		
7,790.0	7,691.0	7,695.9	7,682.0	23.2	9.4	172.96	139.2	-161.2	862.4	833.6	28.71	30.036		
7,800.0	7,700.8	7,705.8	7,691.8	23.2	9.4	172.97	139.2	-161.2	863.8	835.1	28.76	30.038		
7,885.0	7,785.1	7,790.1	7,776.1	23.6	9.5	173.09	139.2	-161.2	875.0	845.8	29.19	29.974		
7,900.0	7,800.0	7,805.0	7,791.0	23.6	9.5	173.11	139.2	-161.2	876.7	847.5	29.27	29.954		
7,980.0	7,879.6	7,884.6	7,870.6	23.9	9.6	173.19	139.2	-161.2	884.6	854.9	29.67	29.813		
8,000.0	7,899.5	7,904.5	7,890.5	24.0	9.6	173.21	139.2	-161.2	886.2	856.4	29.77	29.767		
8,075.0	7,974.4	7,979.4	7,965.4	24.3	9.7	173.25	139.2	-161.2	891.1	860.9	30.14	29.564		
8,100.0	7,999.3	8,004.3	7,990.3	24.4	9.7	173.27	139.2	-161.2	892.2	862.0	30.26	29.483		
8,170.0	8,069.3	8,074.3	8,060.3	24.7	9.8	173.29	139.2	-161.2	894.4	863.8	30.60	29.230		
8,200.0	8,099.3	8,104.3	8,090.3	24.8	9.8	173.29	139.2	-161.2	894.8	864.0	30.74	29.106		
8,223.7	8,123.0	8,128.0	8,114.0	24.9	9.9	72.58	139.2	-161.2	894.9	864.1	30.83	29.028		
8,265.0	8,164.3	8,169.3	8,155.3	25.0	9.9	72.58	139.2	-161.2	894.9	863.9	30.98	28.890		
8,300.0	8,199.3	8,204.3	8,190.3	25.1	9.9	72.58	139.2	-161.2	894.9	863.8	31.10	28.775		
8,360.0	8,259.3	8,264.3	8,250.3	25.3	10.0	72.58	139.2	-161.2	894.9	863.6	31.32	28.575		
8,400.0	8,299.3	8,304.3	8,290.3	25.4	10.1	72.58	139.2	-161.2	894.9	863.4	31.46	28.443		
8,455.0	8,354.3	8,359.3	8,345.3	25.6	10.1	72.58	139.2	-161.2	894.9	863.2	31.66	28.262		
8,500.0	8,399.3	8,404.3	8,390.3	25.7	10.2	72.58	139.2	-161.2	894.9	863.1	31.83	28.115		
8,550.0	8,449.3	8,454.3	8,440.3	25.9	10.2	72.58	139.2	-161.2	894.9	862.9	32.01	27.954		
8,600.0	8,499.3	8,504.3	8,490.3	26.0	10.3	72.58	139.2	-161.2	894.9	862.7	32.20	27.794		
8,645.0	8,544.3	8,549.3	8,535.3	26.1	10.3	72.58	139.2	-161.2	894.9	862.5	32.36	27.651		
8,700.0	8,599.3	8,604.3	8,590.3	26.3	10.4	72.58	139.2	-161.2	894.9	862.3	32.57	27.478		
8,740.0	8,639.3	8,644.3	8,630.3	26.4	10.4	72.58	139.2	-161.2	894.9	862.2	32.72	27.353		
8,800.0	8,699.3	8,704.3	8,690.3	26.6	10.5	72.58	139.2	-161.2	894.9	861.9	32.94	27.168		
8,835.0	8,734.3	8,739.3	8,725.3	26.7	10.6	72.58	139.2	-161.2	894.9	861.8	33.07	27.061		
8,900.0	8,799.3	8,804.3	8,790.3	26.9	10.6	72.58	139.2	-161.2	894.9	861.6	33.31	26.864		
8,930.0	8,829.3	8,834.3	8,820.3	27.0	10.7	72.58	139.2	-161.2	894.9	861.5	33.42	26.773		
9,000.0	8,899.3	8,904.3	8,890.3	27.2	10.7	72.58	139.2	-161.2	894.9	861.2	33.69	26.565		
9,025.0	8,924.3	8,929.3	8,915.3	27.3	10.8	72.58	139.2	-161.2	894.9	861.1	33.78	26.491		
9,100.0	8,999.3	9,004.3	8,990.3	27.5	10.9	72.58	139.2	-161.2	894.9	860.8	34.06	26.272		
9,120.0	9,019.3	9,024.3	9,010.3	27.6	10.9	72.58	139.2	-161.2	894.9	860.7	34.14	26.214		
9,200.0	9,099.3	9,104.3	9,090.3	27.8	11.0	72.58	139.2	-161.2	894.9	860.4	34.44	25.984		
9,215.0	9,114.3	9,119.3	9,105.3	27.9	11.0	72.58	139.2	-161.2	894.9	860.4	34.50	25.941		
9,300.0	9,199.3	9,204.3	9,190.3	28.2	11.1	72.58	139.2	-161.2	894.9	860.1	34.82	25.702		
9,310.0	9,209.3	9,214.3	9,200.3	28.2	11.1	72.58	139.2	-161.2	894.9	860.0	34.86	25.674		
9,400.0	9,299.3	9,304.3	9,290.3	28.5	11.2	72.58	139.2	-161.2	894.9	859.7	35.20	25.425		
9,405.0	9,304.3	9,309.3	9,295.3	28.5	11.2	72.58	139.2	-161.2	894.9	859.7	35.22	25.411		
9,500.0	9,399.3	9,404.3	9,390.3	28.8	11.3	72.58	139.2	-161.2	894.9	859.3	35.58	25.152		
9,595.0	9,494.3	9,499.3	9,485.3	29.1	11.4	72.58	139.2	-161.2	894.9	858.9	35.94	24.898		
9,600.0	9,499.3	9,504.3	9,490.3	29.1	11.4	72.58	139.2	-161.2	894.9	858.9	35.96	24.885		
9,690.0	9,589.3	9,594.3	9,580.3	29.4	11.5	72.58	139.2	-161.2	894.9	858.6	36.31	24.649		
9,700.0	9,599.3	9,604.3	9,590.3	29.4	11.6	72.58	139.2	-161.2	894.9	858.5	36.34	24.623		
9,785.0	9,684.3	9,689.3	9,675.3	29.7	11.7	72.58	139.2	-161.2	894.9	858.2	36.67	24.403		
9,800.0	9,699.3	9,704.3	9,690.3	29.7	11.7	72.58	139.2	-161.2	894.9	858.2	36.73	24.365		
9,880.0	9,779.3	9,784.3	9,770.3	30.0	11.8	72.58	139.2	-161.2	894.9	857.8	37.04	24.162		
9,900.0	9,799.3	9,804.3	9,790.3	30.0	11.8	72.58	139.2	-161.2	894.9	857.8	37.11	24.112		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 10092-MWD+IFR1+FDIR						Rule Assigned: Distance					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,975.0	9,874.3	9,879.3	9,865.3	30.3	11.9	72.58	139.2	-161.2	894.9	857.5	37.40	23.925		
10,000.0	9,899.3	9,904.3	9,890.3	30.4	11.9	72.58	139.2	-161.2	894.9	857.4	37.50	23.864		
10,070.0	9,969.3	9,974.3	9,960.3	30.6	12.0	72.58	139.2	-161.2	894.9	857.1	37.77	23.692		
10,100.0	9,999.3	10,004.3	9,990.3	30.7	12.0	72.58	139.2	-161.2	894.9	857.0	37.89	23.620		
10,153.2	10,052.5	10,057.5	10,043.5	30.8	12.1	72.58	139.2	-161.2	894.9	856.9	38.01	23.546		
10,165.0	10,064.3	10,069.3	10,055.3	30.8	12.1	-103.98	139.2	-161.2	894.9	856.9	38.01	23.543		
10,175.0	10,074.3	10,079.3	10,065.3	30.8	12.1	-103.99	139.2	-161.2	895.0	857.0	38.02	23.542		
10,200.0	10,099.2	10,120.8	10,106.8	30.8	12.2	-104.05	137.6	-161.2	895.1	857.0	38.08	23.506		
10,225.0	10,124.0	10,186.8	10,172.0	30.8	12.2	-103.99	127.8	-161.1	894.7	856.4	38.28	23.374		
10,250.0	10,148.6	10,241.8	10,224.9	30.8	12.2	-103.78	112.8	-161.0	893.7	855.3	38.47	23.234		
10,260.0	10,158.4	10,263.5	10,245.2	30.8	12.2	-103.65	105.3	-161.0	893.2	854.7	38.55	23.171		
10,275.0	10,173.0	10,295.6	10,274.6	30.8	12.2	-103.43	92.4	-160.9	892.3	853.6	38.68	23.068		
10,300.0	10,197.0	10,347.6	10,320.2	30.8	12.3	-102.96	67.4	-160.8	890.4	851.5	38.91	22.885		
10,325.0	10,220.6	10,397.6	10,361.2	30.8	12.3	-102.40	38.9	-160.6	888.0	848.9	39.14	22.691		
10,350.0	10,243.8	10,445.3	10,397.4	30.8	12.3	-101.78	7.9	-160.4	885.4	846.0	39.36	22.494		
10,355.0	10,248.3	10,454.5	10,404.0	30.9	12.3	-101.65	1.5	-160.3	884.8	845.4	39.40	22.455		
10,375.0	10,266.4	10,490.5	10,428.6	30.9	12.4	-101.10	-24.8	-160.2	882.5	842.9	39.57	22.299		
10,400.0	10,288.5	10,533.4	10,455.3	30.9	12.4	-100.40	-58.3	-160.0	879.4	839.6	39.77	22.110		
10,425.0	10,309.9	10,573.9	10,477.6	30.9	12.5	-99.69	-92.2	-159.7	876.1	836.1	39.95	21.929		
10,450.0	10,330.6	10,612.3	10,496.1	30.9	12.5	-98.97	-125.8	-159.5	872.7	832.6	40.11	21.758		
10,475.0	10,350.5	10,648.5	10,511.0	30.9	12.6	-98.25	-158.8	-159.3	869.3	829.1	40.25	21.597		
10,500.0	10,369.6	10,682.9	10,522.7	31.0	12.6	-97.55	-191.1	-159.1	866.0	825.6	40.38	21.446		
10,525.0	10,387.9	10,715.5	10,531.7	31.0	12.6	-96.85	-222.5	-158.9	862.6	822.1	40.49	21.306		
10,545.0	10,401.8	10,740.5	10,537.1	31.0	12.7	-96.30	-246.9	-158.8	860.0	819.4	40.56	21.202		
10,550.0	10,405.2	10,746.6	10,538.3	31.0	12.7	-96.17	-252.9	-158.7	859.4	818.8	40.58	21.177		
10,575.0	10,421.6	10,776.3	10,542.7	31.0	12.7	-95.50	-282.2	-158.5	856.2	815.5	40.66	21.057		
10,600.0	10,436.9	10,804.6	10,545.2	31.0	12.7	-94.84	-310.4	-158.4	853.2	812.4	40.73	20.946		
10,625.0	10,451.2	10,831.8	10,546.0	31.1	12.7	-94.19	-337.6	-158.2	850.3	809.5	40.79	20.844		
10,640.0	10,459.3	10,844.6	10,546.0	31.1	12.7	-93.92	-350.4	-158.1	848.7	807.9	40.80	20.799		
10,650.0	10,464.4	10,853.1	10,546.0	31.1	12.8	-93.75	-358.9	-158.1	847.7	806.8	40.81	20.770		
10,675.0	10,476.5	10,875.0	10,546.0	31.1	12.8	-93.33	-380.8	-157.9	845.3	804.4	40.84	20.695		
10,700.0	10,487.4	10,897.5	10,546.0	31.1	12.8	-92.92	-403.2	-157.8	843.1	802.2	40.89	20.619		
10,725.0	10,497.1	10,920.5	10,546.0	31.2	12.8	-92.55	-426.2	-157.6	841.2	800.2	40.96	20.537		
10,735.0	10,500.7	10,929.8	10,546.0	31.2	12.8	-92.42	-435.6	-157.6	840.4	799.4	40.99	20.503		
10,750.0	10,505.6	10,943.9	10,546.0	31.2	12.8	-92.23	-449.7	-157.5	839.4	798.3	41.04	20.452		
10,775.0	10,512.9	10,967.8	10,546.0	31.2	12.9	-91.96	-473.6	-157.3	837.7	796.5	41.13	20.365		
10,800.0	10,518.9	10,992.0	10,546.0	31.2	12.9	-91.76	-497.8	-157.2	836.1	794.9	41.24	20.276		
10,825.0	10,523.6	11,016.6	10,546.0	31.3	12.9	-91.62	-522.3	-157.0	834.6	793.2	41.36	20.180		
10,830.0	10,524.4	11,021.5	10,546.0	31.3	12.9	-91.61	-527.3	-157.0	834.3	792.9	41.38	20.160		
10,850.0	10,527.0	11,041.3	10,546.0	31.3	12.9	-91.57	-547.0	-156.9	833.1	791.6	41.49	20.081		
10,875.0	10,529.2	11,066.1	10,546.0	31.3	13.0	-91.59	-571.9	-156.7	831.7	790.1	41.63	19.979		
10,900.0	10,530.0	11,091.1	10,546.0	31.3	13.0	-91.71	-596.9	-156.5	830.3	788.6	41.78	19.876		
10,903.2	10,530.0	11,094.3	10,546.0	31.3	13.0	-91.73	-600.1	-156.5	830.2	788.4	41.80	19.862		
10,925.0	10,530.0	11,116.1	10,546.0	31.4	13.1	-91.73	-621.8	-156.4	829.1	787.1	41.94	19.767		
11,000.0	10,530.0	11,191.0	10,546.0	31.4	13.2	-91.73	-696.8	-155.9	826.6	784.1	42.46	19.469		
11,020.0	10,530.0	11,211.0	10,546.0	31.5	13.2	-91.73	-716.8	-155.8	826.3	783.7	42.60	19.395		
11,057.1	10,530.0	11,248.1	10,546.0	31.5	13.3	-91.73	-753.9	-155.6	826.0	783.1	42.88	19.265		
11,100.0	10,530.0	11,291.0	10,546.0	31.6	13.4	-91.73	-796.8	-155.3	826.0	782.8	43.19	19.126		
11,115.0	10,530.0	11,306.0	10,546.0	31.6	13.5	-91.73	-811.8	-155.2	826.0	782.7	43.30	19.077		
11,200.0	10,530.0	11,391.0	10,546.0	31.7	13.7	-91.73	-896.8	-154.6	826.0	782.0	43.95	18.792		
11,210.0	10,530.0	11,401.0	10,546.0	31.7	13.8	-91.73	-906.8	-154.6	826.0	782.0	44.03	18.758		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
11,300.0	10,530.0	11,491.0	10,546.0	31.9	14.1	-91.73	-996.8	-154.0	826.0	781.2	44.77	18.449	
11,305.0	10,530.0	11,496.0	10,546.0	31.9	14.1	-91.73	-1,001.8	-154.0	826.0	781.2	44.81	18.432	
11,400.0	10,530.0	11,591.0	10,546.0	32.1	14.6	-91.73	-1,096.8	-153.4	826.0	780.3	45.63	18.102	
11,495.0	10,530.0	11,686.0	10,546.0	32.2	15.1	-91.73	-1,191.8	-152.8	825.9	779.5	46.48	17.770	
11,500.0	10,530.0	11,691.0	10,546.0	32.3	15.1	-91.73	-1,196.8	-152.7	825.9	779.4	46.52	17.753	
11,590.0	10,530.0	11,781.0	10,546.0	32.4	15.7	-91.73	-1,286.8	-152.2	825.9	778.6	47.36	17.439	
11,600.0	10,530.0	11,791.0	10,546.0	32.5	15.7	-91.73	-1,296.8	-152.1	825.9	778.5	47.45	17.405	
11,685.0	10,530.0	11,876.0	10,546.0	32.7	16.3	-91.73	-1,381.8	-151.6	825.9	777.6	48.27	17.110	
11,700.0	10,530.0	11,891.0	10,546.0	32.7	16.4	-91.73	-1,396.8	-151.5	825.9	777.5	48.42	17.059	
11,780.0	10,530.0	11,971.0	10,546.0	32.9	16.9	-91.73	-1,476.8	-151.0	825.9	776.7	49.21	16.783	
11,800.0	10,530.0	11,991.0	10,546.0	32.9	17.0	-91.73	-1,496.8	-150.8	825.9	776.5	49.41	16.716	
11,875.0	10,530.0	12,066.0	10,546.0	33.1	17.6	-91.73	-1,571.8	-150.4	825.9	775.7	50.17	16.461	
11,900.0	10,530.0	12,091.0	10,546.0	33.2	17.7	-91.73	-1,596.8	-150.2	825.9	775.4	50.43	16.377	
11,970.0	10,530.0	12,161.0	10,546.0	33.4	18.2	-91.73	-1,666.8	-149.8	825.9	774.7	51.16	16.143	
12,000.0	10,530.0	12,191.0	10,546.0	33.5	18.5	-91.73	-1,696.8	-149.6	825.9	774.4	51.47	16.044	
12,065.0	10,530.0	12,256.0	10,546.0	33.7	18.9	-91.73	-1,761.8	-149.2	825.8	773.7	52.17	15.831	
12,100.0	10,530.0	12,291.0	10,546.0	33.8	19.2	-91.73	-1,796.8	-148.9	825.8	773.3	52.54	15.718	
12,160.0	10,530.0	12,351.0	10,546.0	34.0	19.6	-91.73	-1,856.8	-148.6	825.8	772.6	53.20	15.524	
12,200.0	10,530.0	12,391.0	10,546.0	34.1	19.9	-91.73	-1,896.8	-148.3	825.8	772.2	53.63	15.397	
12,255.0	10,530.0	12,446.0	10,546.0	34.3	20.4	-91.73	-1,951.8	-148.0	825.8	771.6	54.25	15.223	
12,300.0	10,530.0	12,491.0	10,546.0	34.4	20.7	-91.73	-1,996.8	-147.7	825.8	771.1	54.75	15.084	
12,350.0	10,530.0	12,541.0	10,546.0	34.6	21.1	-91.73	-2,046.8	-147.4	825.8	770.5	55.31	14.929	
12,400.0	10,530.0	12,591.0	10,546.0	34.8	21.5	-91.73	-2,096.8	-147.0	825.8	769.9	55.88	14.777	
12,445.0	10,530.0	12,636.0	10,546.0	34.9	21.8	-91.73	-2,141.8	-146.8	825.8	769.4	56.40	14.641	
12,500.0	10,530.0	12,691.0	10,546.0	35.1	22.3	-91.73	-2,196.8	-146.4	825.8	768.7	57.03	14.478	
12,540.0	10,530.0	12,731.0	10,546.0	35.3	22.6	-91.73	-2,236.8	-146.2	825.8	768.3	57.50	14.360	
12,600.0	10,530.0	12,791.0	10,546.0	35.5	23.0	-91.73	-2,296.8	-145.8	825.7	767.5	58.21	14.187	
12,635.0	10,530.0	12,826.0	10,546.0	35.6	23.3	-91.73	-2,331.7	-145.6	825.7	767.1	58.62	14.086	
12,700.0	10,530.0	12,891.0	10,546.0	35.9	23.8	-91.73	-2,396.7	-145.1	825.7	766.3	59.39	13.903	
12,730.0	10,530.0	12,921.0	10,546.0	36.0	24.1	-91.73	-2,426.7	-145.0	825.7	766.0	59.75	13.819	
12,800.0	10,530.0	12,991.0	10,546.0	36.3	24.6	-91.73	-2,496.7	-144.5	825.7	765.1	60.60	13.626	
12,825.0	10,530.0	13,016.0	10,546.0	36.4	24.8	-91.73	-2,521.7	-144.4	825.7	764.8	60.90	13.558	
12,900.0	10,530.0	13,091.0	10,546.0	36.7	25.4	-91.73	-2,596.7	-143.9	825.7	763.9	61.82	13.357	
12,920.0	10,530.0	13,111.0	10,546.0	36.7	25.6	-91.73	-2,616.7	-143.8	825.7	763.6	62.06	13.304	
13,000.0	10,530.0	13,191.0	10,546.0	37.1	26.2	-91.73	-2,696.7	-143.2	825.7	762.6	63.05	13.095	
13,015.0	10,530.0	13,206.0	10,546.0	37.1	26.4	-91.73	-2,711.7	-143.1	825.7	762.4	63.24	13.057	
13,100.0	10,530.0	13,291.0	10,546.0	37.5	27.0	-91.73	-2,796.7	-142.6	825.7	761.4	64.30	12.841	
13,110.0	10,530.0	13,301.0	10,546.0	37.6	27.1	-91.73	-2,806.7	-142.5	825.7	761.2	64.43	12.816	
13,200.0	10,530.0	13,391.0	10,546.0	38.0	27.9	-91.73	-2,896.7	-142.0	825.6	760.1	65.56	12.594	
13,205.0	10,530.0	13,396.0	10,546.0	38.0	27.9	-91.73	-2,901.7	-141.9	825.6	760.0	65.62	12.581	
13,300.0	10,530.0	13,491.0	10,546.0	38.4	28.7	-91.73	-2,996.7	-141.3	825.6	758.8	66.84	12.353	
13,395.0	10,530.0	13,586.0	10,546.0	38.8	29.5	-91.73	-3,091.7	-140.7	825.6	757.6	68.06	12.131	
13,400.0	10,530.0	13,591.0	10,546.0	38.9	29.5	-91.73	-3,096.7	-140.7	825.6	757.5	68.12	12.120	
13,490.0	10,530.0	13,681.0	10,546.0	39.3	30.2	-91.73	-3,186.7	-140.1	825.6	756.3	69.29	11.915	
13,500.0	10,530.0	13,691.0	10,546.0	39.3	30.3	-91.73	-3,196.7	-140.1	825.6	756.2	69.42	11.893	
13,585.0	10,530.0	13,776.0	10,546.0	39.7	31.0	-91.73	-3,281.7	-139.5	825.6	755.0	70.53	11.705	
13,600.0	10,530.0	13,791.0	10,546.0	39.8	31.1	-91.73	-3,296.7	-139.4	825.6	754.8	70.73	11.672	
13,680.0	10,530.0	13,871.0	10,546.0	40.2	31.8	-91.73	-3,376.7	-138.9	825.6	753.8	71.78	11.500	
13,700.0	10,530.0	13,891.0	10,546.0	40.3	32.0	-91.73	-3,396.7	-138.8	825.6	753.5	72.05	11.458	
13,775.0	10,530.0	13,966.0	10,546.0	40.7	32.6	-91.73	-3,471.7	-138.3	825.5	752.5	73.05	11.302	
13,800.0	10,530.0	13,991.0	10,546.0	40.8	32.8	-91.73	-3,496.7	-138.2	825.5	752.2	73.38	11.250	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,870.0	10,530.0	14,061.0	10,546.0	41.1	33.4	-91.73	-3,566.7	-137.7	825.5	751.2	74.32	11.108		
13,900.0	10,530.0	14,091.0	10,546.0	41.3	33.6	-91.73	-3,596.7	-137.5	825.5	750.8	74.72	11.048		
13,965.0	10,530.0	14,156.0	10,546.0	41.6	34.2	-91.73	-3,661.7	-137.1	825.5	749.9	75.60	10.920		
14,000.0	10,530.0	14,191.0	10,546.0	41.8	34.4	-91.73	-3,696.7	-136.9	825.5	749.4	76.07	10.852		
14,060.0	10,530.0	14,251.0	10,546.0	42.1	34.9	-91.73	-3,756.7	-136.5	825.5	748.6	76.88	10.737		
14,100.0	10,530.0	14,291.0	10,546.0	42.3	35.3	-91.73	-3,796.7	-136.3	825.5	748.1	77.43	10.662		
14,155.0	10,530.0	14,346.0	10,546.0	42.6	35.7	-91.73	-3,851.7	-135.9	825.5	747.3	78.18	10.559		
14,200.0	10,530.0	14,391.0	10,546.0	42.9	36.1	-91.73	-3,896.7	-135.6	825.5	746.7	78.79	10.477		
14,250.0	10,530.0	14,441.0	10,546.0	43.1	36.5	-91.73	-3,946.7	-135.3	825.5	746.0	79.48	10.386		
14,300.0	10,530.0	14,491.0	10,546.0	43.4	36.9	-91.73	-3,996.7	-135.0	825.5	745.3	80.17	10.297		
14,345.0	10,530.0	14,536.0	10,546.0	43.6	37.3	-91.73	-4,041.7	-134.7	825.4	744.7	80.79	10.217		
14,400.0	10,530.0	14,591.0	10,546.0	43.9	37.8	-91.73	-4,096.7	-134.4	825.4	743.9	81.55	10.122		
14,440.0	10,530.0	14,631.0	10,546.0	44.2	38.1	-91.73	-4,136.7	-134.1	825.4	743.3	82.11	10.053		
14,500.0	10,530.0	14,691.0	10,546.0	44.5	38.6	-91.73	-4,196.7	-133.7	825.4	742.5	82.94	9.952		
14,535.0	10,530.0	14,726.0	10,546.0	44.7	38.9	-91.73	-4,231.7	-133.5	825.4	742.0	83.43	9.894		
14,600.0	10,530.0	14,791.0	10,546.0	45.0	39.5	-91.73	-4,296.7	-133.1	825.4	741.1	84.34	9.787		
14,630.0	10,530.0	14,821.0	10,546.0	45.2	39.7	-91.73	-4,326.7	-132.9	825.4	740.6	84.76	9.738		
14,700.0	10,530.0	14,891.0	10,546.0	45.6	40.3	-91.73	-4,396.7	-132.5	825.4	739.6	85.74	9.626		
14,725.0	10,530.0	14,916.0	10,546.0	45.7	40.5	-91.73	-4,421.7	-132.3	825.4	739.3	86.09	9.587		
14,800.0	10,530.0	14,991.0	10,546.0	46.2	41.1	-91.73	-4,496.7	-131.8	825.4	738.2	87.15	9.470		
14,820.0	10,530.0	15,011.0	10,546.0	46.3	41.3	-91.73	-4,516.7	-131.7	825.4	737.9	87.44	9.440		
14,900.0	10,530.0	15,091.0	10,546.0	46.7	42.0	-91.73	-4,596.7	-131.2	825.3	736.8	88.57	9.319		
14,915.0	10,530.0	15,106.0	10,546.0	46.8	42.1	-91.73	-4,611.7	-131.1	825.3	736.6	88.78	9.296		
15,000.0	10,530.0	15,191.0	10,546.0	47.3	42.8	-91.73	-4,696.7	-130.6	825.3	735.3	89.99	9.171		
15,010.0	10,530.0	15,201.0	10,546.0	47.4	42.9	-91.73	-4,706.7	-130.5	825.3	735.2	90.14	9.157		
15,100.0	10,530.0	15,291.0	10,546.0	47.9	43.7	-91.73	-4,796.7	-129.9	825.3	733.9	91.42	9.028		
15,105.0	10,530.0	15,296.0	10,546.0	47.9	43.7	-91.73	-4,801.7	-129.9	825.3	733.8	91.49	9.020		
15,200.0	10,530.0	15,391.0	10,546.0	48.5	44.5	-91.73	-4,896.7	-129.3	825.3	732.4	92.86	8.888		
15,295.0	10,530.0	15,486.0	10,546.0	49.1	45.3	-91.73	-4,991.7	-128.7	825.3	731.1	94.23	8.759		
15,300.0	10,530.0	15,491.0	10,546.0	49.1	45.4	-91.73	-4,996.7	-128.7	825.3	731.0	94.30	8.752		
15,390.0	10,530.0	15,581.0	10,546.0	49.6	46.1	-91.73	-5,086.7	-128.1	825.3	729.7	95.60	8.633		
15,400.0	10,530.0	15,591.0	10,546.0	49.7	46.2	-91.73	-5,096.7	-128.0	825.3	729.5	95.74	8.620		
15,485.0	10,530.0	15,676.0	10,546.0	50.2	46.9	-91.73	-5,181.7	-127.5	825.2	728.3	96.98	8.510		
15,500.0	10,530.0	15,691.0	10,546.0	50.3	47.0	-91.73	-5,196.7	-127.4	825.2	728.1	97.19	8.491		
15,580.0	10,530.0	15,771.0	10,546.0	50.8	47.7	-91.73	-5,276.7	-126.9	825.2	726.9	98.36	8.390		
15,600.0	10,530.0	15,791.0	10,546.0	50.9	47.9	-91.73	-5,296.7	-126.8	825.2	726.6	98.65	8.365		
15,675.0	10,530.0	15,866.0	10,546.0	51.4	48.5	-91.73	-5,371.7	-126.3	825.2	725.5	99.74	8.273		
15,700.0	10,530.0	15,891.0	10,546.0	51.5	48.7	-91.73	-5,396.7	-126.1	825.2	725.1	100.11	8.243		
15,770.0	10,530.0	15,961.0	10,546.0	51.9	49.3	-91.73	-5,466.7	-125.7	825.2	724.1	101.13	8.159		
15,800.0	10,530.0	15,991.0	10,546.0	52.1	49.6	-91.73	-5,496.7	-125.5	825.2	723.6	101.57	8.124		
15,865.0	10,530.0	16,056.0	10,546.0	52.5	50.1	-91.73	-5,561.7	-125.1	825.2	722.7	102.53	8.048		
15,900.0	10,530.0	16,091.0	10,546.0	52.7	50.4	-91.73	-5,596.7	-124.9	825.2	722.1	103.04	8.008		
15,960.0	10,530.0	16,151.0	10,546.0	53.1	50.9	-91.74	-5,656.7	-124.5	825.2	721.2	103.93	7.940		
16,000.0	10,530.0	16,191.0	10,546.0	53.4	51.3	-91.74	-5,696.7	-124.2	825.2	720.6	104.52	7.895		
16,055.0	10,530.0	16,246.0	10,546.0	53.7	51.7	-91.74	-5,751.7	-123.9	825.1	719.8	105.33	7.834		
16,100.0	10,530.0	16,291.0	10,546.0	54.0	52.1	-91.74	-5,796.7	-123.6	825.1	719.1	105.99	7.785		
16,150.0	10,530.0	16,341.0	10,546.0	54.3	52.5	-91.74	-5,846.7	-123.3	825.1	718.4	106.73	7.731		
16,200.0	10,530.0	16,391.0	10,546.0	54.6	53.0	-91.74	-5,896.7	-123.0	825.1	717.6	107.47	7.677		
16,245.0	10,530.0	16,436.0	10,546.0	54.9	53.4	-91.74	-5,941.7	-122.7	825.1	717.0	108.14	7.630		
16,300.0	10,530.0	16,491.0	10,546.0	55.3	53.8	-91.74	-5,996.7	-122.3	825.1	716.1	108.96	7.573		
16,340.0	10,530.0	16,531.0	10,546.0	55.5	54.2	-91.74	-6,036.7	-122.1	825.1	715.5	109.55	7.531		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
16,400.0	10,530.0	16,591.0	10,546.0	55.9	54.7	-91.74	-6,096.7	-121.7	825.1	714.6	110.45	7.470
16,435.0	10,530.0	16,626.0	10,546.0	56.1	55.0	-91.74	-6,131.7	-121.5	825.1	714.1	110.97	7.435
16,500.0	10,530.0	16,691.0	10,546.0	56.5	55.5	-91.74	-6,196.7	-121.1	825.1	713.1	111.94	7.371
16,530.0	10,530.0	16,721.0	10,546.0	56.7	55.8	-91.74	-6,226.7	-120.9	825.1	712.7	112.39	7.341
16,600.0	10,530.0	16,791.0	10,546.0	57.2	56.4	-91.74	-6,296.7	-120.4	825.1	711.6	113.44	7.273
16,625.0	10,530.0	16,816.0	10,546.0	57.3	56.6	-91.74	-6,321.7	-120.3	825.0	711.2	113.81	7.249
16,700.0	10,530.0	16,891.0	10,546.0	57.8	57.2	-91.74	-6,396.7	-119.8	825.0	710.1	114.93	7.178
16,720.0	10,530.0	16,911.0	10,546.0	58.0	57.4	-91.74	-6,416.7	-119.7	825.0	709.8	115.23	7.160
16,800.0	10,530.0	16,991.0	10,546.0	58.5	58.1	-91.74	-6,496.7	-119.2	825.0	708.6	116.44	7.086
16,815.0	10,530.0	17,006.0	10,546.0	58.6	58.2	-91.74	-6,511.7	-119.1	825.0	708.4	116.66	7.072
16,900.0	10,530.0	17,091.0	10,546.0	59.1	58.9	-91.74	-6,596.7	-118.5	825.0	707.1	117.94	6.995
16,910.0	10,530.0	17,101.0	10,546.0	59.2	59.0	-91.74	-6,606.7	-118.5	825.0	706.9	118.09	6.986
17,000.0	10,530.0	17,191.0	10,546.0	59.8	59.8	-91.74	-6,696.7	-117.9	825.0	705.5	119.45	6.907
17,005.0	10,530.0	17,196.0	10,546.0	59.8	59.8	-91.74	-6,701.7	-117.9	825.0	705.5	119.52	6.902
17,100.0	10,530.0	17,291.0	10,546.0	60.4	60.6	-91.74	-6,796.7	-117.3	825.0	704.0	120.96	6.820
17,195.0	10,530.0	17,386.0	10,546.0	61.1	61.4	-91.74	-6,891.7	-116.7	824.9	702.6	122.40	6.740
17,200.0	10,530.0	17,391.0	10,546.0	61.1	61.5	-91.74	-6,896.7	-116.6	824.9	702.5	122.47	6.736
17,290.0	10,530.0	17,481.0	10,546.0	61.7	62.2	-91.74	-6,986.7	-116.1	824.9	701.1	123.84	6.662
17,300.0	10,530.0	17,491.0	10,546.0	61.8	62.3	-91.74	-6,996.7	-116.0	824.9	700.9	123.99	6.653
17,385.0	10,530.0	17,576.0	10,546.0	62.3	63.1	-91.74	-7,081.7	-115.5	824.9	699.6	125.28	6.585
17,400.0	10,530.0	17,591.0	10,546.0	62.4	63.2	-91.74	-7,096.7	-115.4	824.9	699.4	125.50	6.573
17,480.0	10,530.0	17,671.0	10,546.0	63.0	63.9	-91.74	-7,176.7	-114.9	824.9	698.2	126.72	6.510
17,500.0	10,530.0	17,691.0	10,546.0	63.1	64.0	-91.74	-7,196.7	-114.7	824.9	697.9	127.03	6.494
17,575.0	10,530.0	17,766.0	10,546.0	63.6	64.7	-91.74	-7,271.7	-114.3	824.9	696.7	128.17	6.436
17,600.0	10,530.0	17,791.0	10,546.0	63.8	64.9	-91.74	-7,296.6	-114.1	824.9	696.3	128.55	6.417
17,670.0	10,530.0	17,861.0	10,546.0	64.2	65.5	-91.74	-7,366.6	-113.7	824.9	695.2	129.62	6.364
17,700.0	10,530.0	17,891.0	10,546.0	64.4	65.7	-91.74	-7,396.6	-113.5	824.9	694.8	130.07	6.341
17,765.0	10,530.0	17,956.0	10,546.0	64.9	66.3	-91.74	-7,461.6	-113.1	824.8	693.8	131.07	6.293
17,800.0	10,530.0	17,991.0	10,546.0	65.1	66.6	-91.74	-7,496.6	-112.8	824.8	693.2	131.60	6.268
17,860.0	10,530.0	18,051.0	10,546.0	65.5	67.1	-91.74	-7,556.6	-112.5	824.8	692.3	132.52	6.224
17,900.0	10,530.0	18,091.0	10,546.0	65.8	67.4	-91.74	-7,596.6	-112.2	824.8	691.7	133.13	6.196
17,955.0	10,530.0	18,146.0	10,546.0	66.2	67.9	-91.74	-7,651.6	-111.9	824.8	690.8	133.97	6.157
18,000.0	10,530.0	18,191.0	10,546.0	66.5	68.3	-91.74	-7,696.6	-111.6	824.8	690.1	134.66	6.125
18,050.0	10,530.0	18,241.0	10,546.0	66.8	68.7	-91.74	-7,746.6	-111.3	824.8	689.4	135.43	6.090
18,100.0	10,530.0	18,291.0	10,546.0	67.1	69.2	-91.74	-7,796.6	-110.9	824.8	688.6	136.20	6.056
18,145.0	10,530.0	18,336.0	10,546.0	67.4	69.5	-91.74	-7,841.6	-110.7	824.8	687.9	136.89	6.025
18,200.0	10,530.0	18,391.0	10,546.0	67.8	70.0	-91.74	-7,896.6	-110.3	824.8	687.0	137.73	5.988
18,240.0	10,530.0	18,431.0	10,546.0	68.1	70.3	-91.74	-7,936.6	-110.1	824.8	686.4	138.35	5.962
18,300.0	10,530.0	18,491.0	10,546.0	68.5	70.9	-91.74	-7,996.6	-109.7	824.8	685.5	139.27	5.922
18,335.0	10,530.0	18,526.0	10,546.0	68.7	71.2	-91.74	-8,031.6	-109.4	824.8	684.9	139.81	5.899
18,400.0	10,530.0	18,591.0	10,546.0	69.2	71.7	-91.74	-8,096.6	-109.0	824.7	683.9	140.81	5.857
18,430.0	10,530.0	18,621.0	10,546.0	69.4	72.0	-91.74	-8,126.6	-108.8	824.7	683.5	141.27	5.838
18,500.0	10,530.0	18,691.0	10,546.0	69.9	72.6	-91.74	-8,196.6	-108.4	824.7	682.4	142.35	5.794
18,525.0	10,530.0	18,716.0	10,546.0	70.0	72.8	-91.74	-8,221.6	-108.2	824.7	682.0	142.74	5.778
18,600.0	10,530.0	18,791.0	10,546.0	70.6	73.4	-91.74	-8,296.6	-107.8	824.7	680.8	143.90	5.731
18,620.0	10,530.0	18,811.0	10,546.0	70.7	73.6	-91.74	-8,316.6	-107.6	824.7	680.5	144.21	5.719
18,700.0	10,530.0	18,891.0	10,546.0	71.3	74.3	-91.74	-8,396.6	-107.1	824.7	679.2	145.44	5.670
18,715.0	10,530.0	18,906.0	10,546.0	71.4	74.4	-91.74	-8,411.6	-107.0	824.7	679.0	145.67	5.661
18,800.0	10,530.0	18,991.0	10,546.0	71.9	75.1	-91.74	-8,496.6	-106.5	824.7	677.7	146.99	5.610
18,810.0	10,530.0	19,001.0	10,546.0	72.0	75.2	-91.74	-8,506.6	-106.4	824.7	677.5	147.14	5.605
18,900.0	10,530.0	19,091.0	10,546.0	72.6	76.0	-91.74	-8,596.6	-105.9	824.7	676.1	148.54	5.552

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #703H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10092-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
18,905.0	10,530.0	19,096.0	10,546.0	72.7	76.0	-91.74	-8,601.6	-105.8	824.7	676.0	148.61	5.549
19,000.0	10,530.0	19,191.0	10,546.0	73.3	76.8	-91.74	-8,696.6	-105.2	824.6	674.5	150.09	5.494
19,095.0	10,530.0	19,286.0	10,546.0	74.0	77.7	-91.74	-8,791.6	-104.6	824.6	673.1	151.56	5.441
19,100.0	10,530.0	19,291.0	10,546.0	74.0	77.7	-91.74	-8,796.6	-104.6	824.6	673.0	151.64	5.438
19,190.0	10,530.0	19,381.0	10,546.0	74.7	78.5	-91.74	-8,886.6	-104.0	824.6	671.6	153.03	5.388
19,200.0	10,530.0	19,391.0	10,546.0	74.7	78.6	-91.74	-8,896.6	-104.0	824.6	671.4	153.19	5.383
19,285.0	10,530.0	19,476.0	10,546.0	75.3	79.3	-91.74	-8,981.6	-103.4	824.6	670.1	154.51	5.337
19,300.0	10,530.0	19,491.0	10,546.0	75.4	79.4	-91.74	-8,996.6	-103.3	824.6	669.8	154.74	5.329
19,380.0	10,530.0	19,571.0	10,546.0	76.0	80.1	-91.74	-9,076.6	-102.8	824.6	668.6	155.99	5.286
19,400.0	10,530.0	19,591.0	10,546.0	76.1	80.3	-91.74	-9,096.6	-102.7	824.6	668.3	156.30	5.276
19,475.0	10,530.0	19,666.0	10,546.0	76.6	80.9	-91.74	-9,171.6	-102.2	824.6	667.1	157.47	5.236
19,500.0	10,530.0	19,691.0	10,546.0	76.8	81.1	-91.74	-9,196.6	-102.1	824.5	666.7	157.86	5.223
19,570.0	10,530.0	19,761.0	10,546.0	77.3	81.7	-91.74	-9,266.6	-101.6	824.5	665.6	158.95	5.187
19,600.0	10,530.0	19,791.0	10,546.0	77.5	82.0	-91.74	-9,296.6	-101.4	824.5	665.1	159.41	5.172
19,665.0	10,530.0	19,856.0	10,546.0	78.0	82.5	-91.74	-9,361.6	-101.0	824.5	664.1	160.43	5.139
19,700.0	10,530.0	19,891.0	10,546.0	78.2	82.8	-91.74	-9,396.6	-100.8	824.5	663.5	160.97	5.122
19,760.0	10,530.0	19,951.0	10,546.0	78.6	83.3	-91.74	-9,456.6	-100.4	824.5	662.6	161.91	5.092
19,800.0	10,530.0	19,991.0	10,546.0	78.9	83.7	-91.74	-9,496.6	-100.2	824.5	662.0	162.53	5.073
19,855.0	10,530.0	20,046.0	10,546.0	79.3	84.2	-91.74	-9,551.6	-99.8	824.5	661.1	163.39	5.046
19,900.0	10,530.0	20,091.0	10,546.0	79.6	84.5	-91.74	-9,596.6	-99.5	824.5	660.4	164.10	5.024
19,950.0	10,530.0	20,141.0	10,546.0	80.0	85.0	-91.74	-9,646.6	-99.2	824.5	659.6	164.88	5.000
20,000.0	10,530.0	20,191.0	10,546.0	80.3	85.4	-91.74	-9,696.6	-98.9	824.5	658.8	165.66	4.977
20,045.0	10,530.0	20,236.0	10,546.0	80.7	85.8	-91.74	-9,741.6	-98.6	824.5	658.1	166.36	4.956
20,100.0	10,530.0	20,291.0	10,546.0	81.0	86.3	-91.74	-9,796.6	-98.3	824.4	657.2	167.22	4.930
20,140.0	10,530.0	20,331.0	10,546.0	81.3	86.6	-91.74	-9,836.6	-98.0	824.4	656.6	167.85	4.912
20,200.0	10,530.0	20,391.0	10,546.0	81.8	87.1	-91.74	-9,896.6	-97.6	824.4	655.6	168.79	4.884
20,235.0	10,530.0	20,426.0	10,546.0	82.0	87.4	-91.74	-9,931.6	-97.4	824.4	655.1	169.34	4.869
20,300.0	10,530.0	20,491.0	10,546.0	82.5	88.0	-91.74	-9,996.6	-97.0	824.4	654.1	170.36	4.839
20,330.0	10,530.0	20,521.0	10,546.0	82.7	88.2	-91.74	-10,026.6	-96.8	824.4	653.6	170.83	4.826
20,392.7	10,530.0	20,583.8	10,546.0	83.1	88.8	-91.74	-10,089.3	-96.4	824.4	652.6	171.81	4.798
20,400.0	10,530.0	20,591.0	10,546.0	83.2	88.8	-91.74	-10,096.6	-96.4	824.4	652.5	171.92	4.795
20,425.0	10,530.0	20,616.0	10,546.0	83.4	89.0	-91.74	-10,121.6	-96.2	824.4	652.1	172.31	4.784
20,500.0	10,530.0	20,691.0	10,546.0	83.9	89.7	-91.74	-10,196.6	-95.7	824.4	650.9	173.49	4.752
20,520.0	10,530.0	20,711.0	10,546.0	84.0	89.8	-91.74	-10,216.6	-95.6	824.4	650.6	173.80	4.743
20,522.7	10,530.0	20,713.7	10,546.0	84.0	89.9	-91.74	-10,219.3	-95.6	824.4	650.5	173.84	4.742 SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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	Offset	Offset		Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
7,900.0	7,800.0	7,929.2	7,900.5	23.6	9.5	23.97	96.1	-1,966.7	999.1	968.2	30.85	32.389		
7,980.0	7,879.6	8,007.5	7,978.4	23.9	9.6	24.24	97.9	-1,958.7	984.3	953.0	31.29	31.455		
8,000.0	7,899.5	8,027.2	7,998.0	24.0	9.6	24.30	98.3	-1,956.7	981.0	949.6	31.41	31.235		
8,075.0	7,974.4	8,101.1	8,071.5	24.3	9.7	24.53	100.0	-1,949.1	969.5	937.7	31.82	30.469		
8,100.0	7,999.3	8,125.8	8,096.1	24.4	9.8	24.59	100.6	-1,946.6	966.1	934.1	31.96	30.230		
8,170.0	8,069.3	8,195.2	8,165.1	24.7	9.8	24.77	102.1	-1,939.5	957.5	925.2	32.34	29.611		
8,200.0	8,099.3	8,225.0	8,194.7	24.8	9.9	24.84	102.8	-1,936.5	954.4	921.9	32.50	29.365		
8,223.7	8,123.0	8,248.5	8,218.1	24.9	9.9	-75.83	103.3	-1,934.1	952.1	919.5	32.60	29.204		
8,265.0	8,164.3	8,289.6	8,259.0	25.0	10.0	-75.71	104.2	-1,929.9	948.2	915.4	32.77	28.937		
8,300.0	8,199.3	8,324.4	8,293.6	25.1	10.0	-75.61	105.0	-1,926.3	944.9	912.0	32.91	28.712		
8,360.0	8,259.3	8,384.1	8,352.9	25.3	10.1	-75.44	106.3	-1,920.2	939.3	906.2	33.16	28.330		
8,400.0	8,299.3	8,423.8	8,392.5	25.4	10.1	-75.33	107.2	-1,916.2	935.6	902.3	33.32	28.078		
8,455.0	8,354.3	8,478.5	8,446.9	25.6	10.2	-75.16	108.5	-1,910.6	930.5	896.9	33.55	27.735		
8,500.0	8,399.3	8,523.3	8,491.4	25.7	10.2	-75.03	109.5	-1,906.0	926.3	892.6	33.74	27.458		
8,550.0	8,449.3	8,573.0	8,540.9	25.9	10.3	-74.88	110.6	-1,901.0	921.6	887.7	33.94	27.153		
8,600.0	8,499.3	8,622.8	8,590.3	26.0	10.4	-74.73	111.7	-1,895.9	917.0	882.9	34.15	26.852		
8,645.0	8,544.3	8,667.5	8,634.8	26.1	10.4	-74.60	112.7	-1,891.3	912.8	878.5	34.34	26.584		
8,700.0	8,599.3	8,722.2	8,689.2	26.3	10.5	-74.43	113.9	-1,885.7	907.8	873.2	34.57	26.261		
8,740.0	8,639.3	8,762.0	8,728.8	26.4	10.5	-74.30	114.8	-1,881.7	904.1	869.3	34.73	26.028		
8,800.0	8,699.3	8,817.0	8,783.5	26.6	10.6	-74.13	116.0	-1,876.0	898.5	863.5	35.00	25.672		
8,835.0	8,734.3	8,851.7	8,818.0	26.7	10.6	-74.02	116.8	-1,872.6	895.4	860.3	35.15	25.476		
8,900.0	8,799.3	8,908.6	8,874.7	26.9	10.7	-73.86	117.9	-1,867.4	890.0	854.6	35.44	25.111		
8,930.0	8,829.3	8,934.9	8,900.9	27.0	10.7	-73.79	118.4	-1,865.2	887.8	852.2	35.58	24.950		
9,000.0	8,899.3	9,000.0	8,965.8	27.2	10.8	-73.63	119.5	-1,860.2	882.9	847.1	35.89	24.601		
9,025.0	8,924.3	9,018.3	8,984.0	27.3	10.8	-73.59	119.8	-1,858.9	881.4	845.4	36.02	24.470		
9,100.0	8,999.3	9,084.3	9,049.9	27.5	10.9	-73.46	120.7	-1,854.8	877.2	840.8	36.36	24.123		
9,120.0	9,019.3	9,100.0	9,065.6	27.6	10.9	-73.43	120.9	-1,853.9	876.2	839.7	36.46	24.031		
9,200.0	9,099.3	9,172.4	9,137.9	27.8	11.0	-73.31	121.7	-1,850.5	872.8	836.0	36.82	23.704		
9,215.0	9,114.3	9,185.6	9,151.1	27.9	11.0	-73.30	121.8	-1,849.9	872.2	835.3	36.89	23.645		
9,300.0	9,199.3	9,260.6	9,226.0	28.2	11.1	-73.22	122.3	-1,847.5	869.7	832.4	37.28	23.332		
9,310.0	9,209.3	9,269.4	9,234.9	28.2	11.1	-73.21	122.4	-1,847.2	869.5	832.2	37.32	23.297		
9,400.0	9,299.3	9,348.9	9,314.3	28.5	11.2	-73.16	122.7	-1,845.8	868.0	830.3	37.73	23.004		
9,405.0	9,304.3	9,353.3	9,318.7	28.5	11.2	-73.16	122.7	-1,845.7	868.0	830.2	37.76	22.989		
9,500.0	9,399.3	9,439.9	9,405.3	28.8	11.3	-73.15	122.8	-1,845.4	867.6	829.4	38.16	22.736		
9,595.0	9,494.3	9,534.9	9,500.3	29.1	11.4	-73.15	122.8	-1,845.4	867.6	829.1	38.49	22.543		
9,600.0	9,499.3	9,539.9	9,505.3	29.1	11.4	-73.15	122.8	-1,845.4	867.6	829.1	38.50	22.533		
9,690.0	9,589.3	9,629.9	9,595.3	29.4	11.5	-73.15	122.8	-1,845.4	867.6	828.8	38.82	22.352		
9,700.0	9,599.3	9,639.9	9,605.3	29.4	11.5	-73.15	122.8	-1,845.4	867.6	828.8	38.85	22.332		
9,785.0	9,684.3	9,724.9	9,690.3	29.7	11.6	-73.15	122.8	-1,845.4	867.6	828.5	39.15	22.164		
9,800.0	9,699.3	9,739.9	9,705.3	29.7	11.6	-73.15	122.8	-1,845.4	867.6	828.4	39.20	22.134		
9,880.0	9,779.3	9,819.9	9,785.3	30.0	11.7	-73.15	122.8	-1,845.4	867.6	828.1	39.48	21.978		
9,900.0	9,799.3	9,839.9	9,805.3	30.0	11.7	-73.15	122.8	-1,845.4	867.6	828.1	39.55	21.939		
9,975.0	9,874.3	9,914.9	9,880.3	30.3	11.8	-73.15	122.8	-1,845.4	867.6	827.8	39.81	21.794		
10,000.0	9,899.3	9,939.9	9,905.3	30.4	11.8	-73.15	122.8	-1,845.4	867.6	827.7	39.90	21.746		
10,070.0	9,969.3	10,009.9	9,975.3	30.6	11.9	-73.15	122.8	-1,845.4	867.6	827.5	40.14	21.613		
10,100.0	9,999.3	10,039.9	10,005.3	30.7	11.9	-73.15	122.8	-1,845.4	867.6	827.4	40.25	21.556		
10,153.2	10,052.5	10,093.2	10,058.6	30.8	11.9	-73.15	122.8	-1,845.4	867.6	827.2	40.35	21.501		
10,165.0	10,064.3	10,118.6	10,084.0	30.8	11.9	110.28	122.1	-1,845.4	867.6	827.3	40.30	21.529		
10,175.0	10,074.3	10,140.2	10,105.5	30.8	11.9	110.24	120.5	-1,845.4	867.5	827.2	40.25	21.549		
10,200.0	10,099.2	10,193.7	10,158.3	30.8	12.5	110.01	112.2	-1,845.3	866.9	826.8	40.17	21.584		
10,225.0	10,124.0	10,246.1	10,208.9	30.8	12.5	109.64	98.5	-1,845.2	866.1	826.0	40.11	21.591		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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: Reference		0-Standard Keeper 104, 10158-MWD+IFR1+FDIR				Rule Assigned:				Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,250.0	10,148.6	10,297.2	10,256.4	30.8	12.5	109.12	79.8	-1,845.1	864.9	824.8	40.10	21.570		
10,260.0	10,158.4	10,317.1	10,274.4	30.8	12.5	108.88	71.2	-1,845.1	864.3	824.2	40.10	21.555		
10,275.0	10,173.0	10,346.4	10,300.1	30.8	12.6	108.50	57.2	-1,845.0	863.4	823.3	40.12	21.524		
10,300.0	10,197.0	10,393.6	10,339.5	30.8	12.6	107.78	31.3	-1,844.8	861.8	821.6	40.17	21.454		
10,325.0	10,220.6	10,438.6	10,374.6	30.8	12.6	107.00	3.2	-1,844.6	860.0	819.7	40.25	21.367		
10,350.0	10,243.8	10,481.4	10,405.4	30.8	12.7	106.16	-26.6	-1,844.5	858.1	817.7	40.35	21.267		
10,355.0	10,248.3	10,489.7	10,411.0	30.9	12.7	105.99	-32.7	-1,844.4	857.7	817.3	40.37	21.246		
10,375.0	10,266.4	10,522.0	10,432.0	30.9	12.7	105.29	-57.3	-1,844.3	856.2	815.7	40.47	21.158		
10,400.0	10,288.5	10,560.6	10,454.8	30.9	12.8	104.40	-88.4	-1,844.1	854.3	813.7	40.59	21.045		
10,425.0	10,309.9	10,597.2	10,474.0	30.9	12.8	103.50	-119.5	-1,843.9	852.4	811.7	40.73	20.930		
10,450.0	10,330.6	10,631.9	10,490.0	30.9	12.9	102.59	-150.3	-1,843.7	850.7	809.9	40.87	20.816		
10,475.0	10,350.5	10,665.0	10,503.1	30.9	12.9	101.67	-180.7	-1,843.5	849.1	808.1	41.01	20.706		
10,500.0	10,369.6	10,696.5	10,513.6	31.0	13.0	100.76	-210.4	-1,843.3	847.7	806.6	41.15	20.601		
10,525.0	10,387.9	10,726.6	10,521.8	31.0	13.0	99.85	-239.3	-1,843.2	846.5	805.3	41.29	20.502		
10,545.0	10,401.8	10,749.8	10,526.9	31.0	13.1	99.12	-261.9	-1,843.0	845.7	804.3	41.40	20.428		
10,550.0	10,405.2	10,755.4	10,527.9	31.0	13.1	98.94	-267.5	-1,843.0	845.6	804.1	41.43	20.410		
10,575.0	10,421.6	10,783.1	10,532.2	31.0	13.1	98.03	-294.8	-1,842.8	844.8	803.3	41.57	20.325		
10,600.0	10,436.9	10,809.7	10,534.8	31.0	13.2	97.12	-321.3	-1,842.7	844.3	802.6	41.70	20.248		
10,625.0	10,451.2	10,835.4	10,535.9	31.1	13.2	96.22	-347.0	-1,842.5	844.1	802.2	41.83	20.179		
10,636.6	10,457.5	10,846.5	10,536.0	31.1	13.2	95.81	-358.1	-1,842.4	844.0	802.1	41.89	20.150 CC		
10,640.0	10,459.3	10,849.4	10,536.0	31.1	13.2	95.71	-361.0	-1,842.4	844.0	802.1	41.90	20.143		
10,650.0	10,464.4	10,858.0	10,535.9	31.1	13.2	95.40	-369.6	-1,842.4	844.1	802.1	41.95	20.123		
10,675.0	10,476.5	10,879.8	10,535.9	31.1	13.3	94.64	-391.4	-1,842.2	844.4	802.3	42.06	20.076		
10,700.0	10,487.4	10,902.3	10,535.8	31.1	13.3	93.90	-413.8	-1,842.1	845.0	802.8	42.18	20.034		
10,725.0	10,497.1	10,925.2	10,535.8	31.2	13.4	93.19	-436.8	-1,841.9	845.8	803.5	42.31	19.993		
10,735.0	10,500.7	10,934.6	10,535.8	31.2	13.4	92.92	-446.1	-1,841.9	846.2	803.8	42.36	19.977		
10,750.0	10,505.6	10,948.7	10,535.8	31.2	13.4	92.53	-460.3	-1,841.8	846.8	804.4	42.44	19.955		
10,775.0	10,512.9	10,972.6	10,535.7	31.2	13.4	91.92	-484.1	-1,841.7	847.9	805.3	42.57	19.920		
10,800.0	10,518.9	10,996.8	10,535.7	31.2	13.5	91.38	-508.3	-1,841.5	849.1	806.4	42.70	19.887		
10,825.0	10,523.6	11,021.3	10,535.6	31.3	13.5	90.91	-532.8	-1,841.4	850.4	807.6	42.84	19.853		
10,830.0	10,524.4	11,026.2	10,535.6	31.3	13.6	90.82	-537.8	-1,841.3	850.7	807.8	42.86	19.846		
10,850.0	10,527.0	11,046.0	10,535.6	31.3	13.6	90.51	-557.6	-1,841.2	851.7	808.7	42.97	19.819		
10,875.0	10,529.2	11,070.9	10,535.5	31.3	13.7	90.21	-582.4	-1,841.1	853.1	809.9	43.11	19.787		
10,900.0	10,530.0	11,095.8	10,535.5	31.3	13.7	89.99	-607.4	-1,840.9	854.4	811.2	43.25	19.756		
10,903.2	10,530.0	11,099.0	10,535.4	31.3	13.7	89.96	-610.6	-1,840.9	854.6	811.3	43.27	19.752		
10,925.0	10,530.0	11,120.8	10,535.4	31.4	13.8	89.96	-632.3	-1,840.7	855.7	812.3	43.40	19.717		
11,000.0	10,530.0	11,195.7	10,535.3	31.4	14.0	89.95	-707.3	-1,840.3	858.2	814.3	43.86	19.568		
11,020.0	10,530.0	11,215.7	10,535.2	31.5	14.1	89.95	-727.3	-1,840.2	858.5	814.5	43.99	19.517		
11,057.1	10,530.0	11,252.8	10,535.1	31.5	14.2	89.94	-764.4	-1,839.9	858.8	814.5	44.24	19.413		
11,100.0	10,530.0	11,295.7	10,535.1	31.6	14.3	89.94	-807.3	-1,839.7	858.8	814.3	44.52	19.290		
11,115.0	10,530.0	11,310.7	10,535.0	31.6	14.4	89.93	-822.3	-1,839.6	858.8	814.2	44.62	19.246		
11,200.0	10,530.0	11,395.7	10,534.8	31.7	14.7	89.92	-907.3	-1,839.1	858.8	813.6	45.22	18.992		
11,210.0	10,530.0	11,405.7	10,534.8	31.7	14.8	89.92	-917.3	-1,839.0	858.8	813.5	45.29	18.961		
11,300.0	10,530.0	11,495.7	10,534.6	31.9	15.2	89.91	-1,007.3	-1,838.4	858.9	812.9	45.97	18.682		
11,305.0	10,530.0	11,500.7	10,534.6	31.9	15.2	89.91	-1,012.3	-1,838.4	858.9	812.9	46.01	18.666		
11,400.0	10,530.0	11,595.7	10,534.4	32.1	15.7	89.90	-1,107.3	-1,837.8	858.9	812.1	46.77	18.364		
11,495.0	10,530.0	11,690.7	10,534.3	32.2	16.2	89.88	-1,202.3	-1,837.2	858.9	811.4	47.57	18.057		
11,500.0	10,530.0	11,695.7	10,534.2	32.3	16.2	89.88	-1,207.3	-1,837.2	858.9	811.3	47.61	18.041		
11,590.0	10,530.0	11,785.7	10,534.1	32.4	16.7	89.87	-1,297.3	-1,836.7	859.0	810.6	48.40	17.748		
11,600.0	10,530.0	11,795.7	10,534.0	32.5	16.8	89.87	-1,307.3	-1,836.6	859.0	810.5	48.49	17.716		
11,685.0	10,530.0	11,880.7	10,533.9	32.7	17.3	89.86	-1,392.3	-1,836.1	859.0	809.7	49.26	17.438		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Factor	
							+N/-S (usft)	+E/-W (usft)				
11,700.0	10,530.0	11,895.7	10,533.8	32.7	17.4	89.86	-1,407.3	-1,836.0	859.0	809.6	49.40	17.389
11,780.0	10,530.0	11,975.7	10,533.7	32.9	17.9	89.85	-1,487.3	-1,835.5	859.0	808.9	50.15	17.128
11,800.0	10,530.0	11,995.7	10,533.6	32.9	18.0	89.84	-1,507.3	-1,835.4	859.1	808.7	50.34	17.064
11,875.0	10,530.0	12,070.7	10,533.5	33.1	18.5	89.83	-1,582.3	-1,834.9	859.1	808.0	51.08	16.820
11,900.0	10,530.0	12,095.7	10,533.4	33.2	18.7	89.83	-1,607.3	-1,834.8	859.1	807.8	51.32	16.740
11,970.0	10,530.0	12,165.7	10,533.3	33.4	19.2	89.82	-1,677.3	-1,834.3	859.1	807.1	52.02	16.514
12,000.0	10,530.0	12,195.7	10,533.2	33.5	19.4	89.82	-1,707.3	-1,834.1	859.1	806.8	52.32	16.419
12,065.0	10,530.0	12,260.7	10,533.1	33.7	19.8	89.81	-1,772.3	-1,833.7	859.2	806.2	52.99	16.212
12,100.0	10,530.0	12,295.7	10,533.0	33.8	20.1	89.80	-1,807.3	-1,833.5	859.2	805.8	53.36	16.103
12,160.0	10,530.0	12,355.7	10,532.9	34.0	20.5	89.79	-1,867.3	-1,833.2	859.2	805.2	53.99	15.914
12,200.0	10,530.0	12,395.7	10,532.8	34.1	20.8	89.79	-1,907.3	-1,832.9	859.2	804.8	54.41	15.791
12,255.0	10,530.0	12,450.7	10,532.7	34.3	21.2	89.78	-1,962.3	-1,832.6	859.2	804.2	55.01	15.621
12,300.0	10,530.0	12,495.7	10,532.6	34.4	21.5	89.77	-2,007.3	-1,832.3	859.2	803.7	55.49	15.484
12,350.0	10,530.0	12,545.7	10,532.5	34.6	21.9	89.77	-2,057.3	-1,832.0	859.3	803.2	56.04	15.332
12,400.0	10,530.0	12,595.7	10,532.4	34.8	22.3	89.76	-2,107.3	-1,831.7	859.3	802.7	56.59	15.183
12,445.0	10,530.0	12,640.7	10,532.3	34.9	22.6	89.76	-2,152.3	-1,831.4	859.3	802.2	57.10	15.049
12,500.0	10,530.0	12,695.7	10,532.2	35.1	23.0	89.75	-2,207.2	-1,831.1	859.3	801.6	57.72	14.888
12,540.0	10,530.0	12,735.7	10,532.1	35.3	23.3	89.74	-2,247.2	-1,830.8	859.3	801.2	58.17	14.772
12,600.0	10,530.0	12,795.7	10,532.0	35.5	23.8	89.73	-2,307.2	-1,830.5	859.4	800.5	58.86	14.600
12,635.0	10,530.0	12,830.7	10,531.9	35.6	24.0	89.73	-2,342.2	-1,830.2	859.4	800.1	59.27	14.500
12,700.0	10,530.0	12,895.7	10,531.8	35.9	24.5	89.72	-2,407.2	-1,829.8	859.4	799.4	60.02	14.318
12,730.0	10,530.0	12,925.7	10,531.8	36.0	24.8	89.72	-2,437.2	-1,829.7	859.4	799.0	60.38	14.234
12,800.0	10,530.0	12,995.7	10,531.6	36.3	25.3	89.71	-2,507.2	-1,829.2	859.4	798.2	61.20	14.042
12,825.0	10,530.0	13,020.7	10,531.6	36.4	25.5	89.70	-2,532.2	-1,829.1	859.4	797.9	61.50	13.974
12,900.0	10,530.0	13,095.7	10,531.4	36.7	26.1	89.69	-2,607.2	-1,828.6	859.5	797.1	62.40	13.774
12,920.0	10,530.0	13,115.7	10,531.4	36.7	26.2	89.69	-2,627.2	-1,828.5	859.5	796.8	62.64	13.721
13,000.0	10,530.0	13,195.7	10,531.2	37.1	26.9	89.68	-2,707.2	-1,828.0	859.5	795.9	63.61	13.512
13,015.0	10,530.0	13,210.7	10,531.2	37.1	27.0	89.68	-2,722.2	-1,827.9	859.5	795.7	63.80	13.473
13,100.0	10,530.0	13,295.7	10,531.0	37.5	27.7	89.67	-2,807.2	-1,827.4	859.5	794.7	64.84	13.256
13,110.0	10,530.0	13,305.7	10,531.0	37.6	27.7	89.67	-2,817.2	-1,827.3	859.5	794.6	64.96	13.231
13,200.0	10,530.0	13,395.7	10,530.8	38.0	28.4	89.65	-2,907.2	-1,826.8	859.6	793.5	66.08	13.008
13,205.0	10,530.0	13,400.7	10,530.8	38.0	28.5	89.65	-2,912.2	-1,826.7	859.6	793.4	66.14	12.996
13,300.0	10,530.0	13,495.7	10,530.6	38.4	29.2	89.64	-3,007.2	-1,826.2	859.6	792.3	67.34	12.766
13,395.0	10,530.0	13,590.7	10,530.4	38.8	30.0	89.63	-3,102.2	-1,825.6	859.7	791.1	68.54	12.542
13,400.0	10,530.0	13,595.7	10,530.4	38.9	30.0	89.63	-3,107.2	-1,825.5	859.7	791.1	68.61	12.530
13,490.0	10,530.0	13,685.7	10,530.2	39.3	30.8	89.61	-3,197.2	-1,825.0	859.7	789.9	69.76	12.323
13,500.0	10,530.0	13,695.7	10,530.2	39.3	30.8	89.61	-3,207.2	-1,824.9	859.7	789.8	69.89	12.301
13,585.0	10,530.0	13,780.7	10,530.0	39.7	31.5	89.60	-3,292.2	-1,824.4	859.7	788.7	70.99	12.111
13,600.0	10,530.0	13,795.7	10,530.0	39.8	31.7	89.60	-3,307.2	-1,824.3	859.7	788.6	71.18	12.078
13,680.0	10,530.0	13,875.7	10,529.8	40.2	32.3	89.59	-3,387.2	-1,823.8	859.8	787.5	72.23	11.904
13,700.0	10,530.0	13,895.7	10,529.8	40.3	32.5	89.59	-3,407.2	-1,823.7	859.8	787.3	72.49	11.861
13,775.0	10,530.0	13,970.7	10,529.6	40.7	33.1	89.58	-3,482.2	-1,823.2	859.8	786.3	73.48	11.702
13,800.0	10,530.0	13,995.7	10,529.6	40.8	33.3	89.57	-3,507.2	-1,823.1	859.8	786.0	73.80	11.650
13,870.0	10,530.0	14,065.7	10,529.5	41.1	33.8	89.56	-3,577.2	-1,822.7	859.8	785.1	74.73	11.505
13,900.0	10,530.0	14,095.7	10,529.4	41.3	34.1	89.56	-3,607.2	-1,822.5	859.8	784.7	75.13	11.445
13,965.0	10,530.0	14,160.7	10,529.3	41.6	34.6	89.55	-3,672.2	-1,822.1	859.9	783.9	76.00	11.314
14,000.0	10,530.0	14,195.7	10,529.2	41.8	34.9	89.55	-3,707.2	-1,821.9	859.9	783.4	76.47	11.245
14,060.0	10,530.0	14,255.7	10,529.1	42.1	35.4	89.54	-3,767.2	-1,821.5	859.9	782.6	77.28	11.128
14,100.0	10,530.0	14,295.7	10,529.0	42.3	35.7	89.53	-3,807.2	-1,821.3	859.9	782.1	77.81	11.051
14,155.0	10,530.0	14,350.7	10,528.9	42.6	36.2	89.53	-3,862.2	-1,820.9	859.9	781.4	78.56	10.947
14,200.0	10,530.0	14,395.7	10,528.8	42.9	36.5	89.52	-3,907.2	-1,820.6	860.0	780.8	79.17	10.862

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
14,250.0	10,530.0	14,445.7	10,528.7	43.1	37.0	89.51	-3,957.2	-1,820.3	860.0	780.1	79.85	10.770	
14,300.0	10,530.0	14,495.7	10,528.6	43.4	37.4	89.51	-4,007.2	-1,820.0	860.0	779.5	80.53	10.679	
14,345.0	10,530.0	14,540.7	10,528.5	43.6	37.7	89.50	-4,052.2	-1,819.7	860.0	778.9	81.15	10.598	
14,400.0	10,530.0	14,595.7	10,528.4	43.9	38.2	89.49	-4,107.2	-1,819.4	860.0	778.1	81.90	10.501	
14,440.0	10,530.0	14,635.7	10,528.3	44.2	38.5	89.49	-4,147.2	-1,819.2	860.1	777.6	82.46	10.430	
14,500.0	10,530.0	14,695.7	10,528.2	44.5	39.0	89.48	-4,207.2	-1,818.8	860.1	776.8	83.28	10.327	
14,535.0	10,530.0	14,730.7	10,528.1	44.7	39.3	89.47	-4,242.2	-1,818.6	860.1	776.3	83.77	10.267	
14,600.0	10,530.0	14,795.7	10,528.0	45.0	39.8	89.47	-4,307.2	-1,818.2	860.1	775.4	84.67	10.158	
14,630.0	10,530.0	14,825.7	10,527.9	45.2	40.1	89.46	-4,337.2	-1,818.0	860.1	775.0	85.09	10.108	
14,700.0	10,530.0	14,895.7	10,527.8	45.6	40.7	89.45	-4,407.2	-1,817.6	860.2	774.1	86.07	9.994	
14,725.0	10,530.0	14,920.7	10,527.7	45.7	40.9	89.45	-4,432.2	-1,817.4	860.2	773.8	86.42	9.954	
14,800.0	10,530.0	14,995.7	10,527.6	46.2	41.5	89.44	-4,507.2	-1,817.0	860.2	772.7	87.47	9.834	
14,820.0	10,530.0	15,015.7	10,527.5	46.3	41.7	89.44	-4,527.2	-1,816.8	860.2	772.5	87.75	9.803	
14,900.0	10,530.0	15,095.7	10,527.4	46.7	42.3	89.43	-4,607.2	-1,816.3	860.2	771.4	88.88	9.679	
14,915.0	10,530.0	15,110.7	10,527.3	46.8	42.5	89.42	-4,622.2	-1,816.2	860.2	771.2	89.09	9.656	
15,000.0	10,530.0	15,195.7	10,527.2	47.3	43.2	89.41	-4,707.2	-1,815.7	860.3	770.0	90.29	9.528	
15,010.0	10,530.0	15,205.7	10,527.1	47.4	43.2	89.41	-4,717.2	-1,815.7	860.3	769.8	90.44	9.513	
15,100.0	10,530.0	15,295.7	10,527.0	47.9	44.0	89.40	-4,807.2	-1,815.1	860.3	768.6	91.71	9.380	
15,105.0	10,530.0	15,300.7	10,527.0	47.9	44.0	89.40	-4,812.2	-1,815.1	860.3	768.5	91.79	9.373	
15,200.0	10,530.0	15,395.7	10,526.8	48.5	44.8	89.38	-4,907.2	-1,814.5	860.4	767.2	93.14	9.237	
15,295.0	10,530.0	15,490.7	10,526.6	49.1	45.6	89.37	-5,002.2	-1,813.9	860.4	765.9	94.50	9.104	
15,300.0	10,530.0	15,495.7	10,526.6	49.1	45.7	89.37	-5,007.2	-1,813.9	860.4	765.8	94.58	9.097	
15,390.0	10,530.0	15,585.7	10,526.4	49.6	46.4	89.36	-5,097.2	-1,813.3	860.4	764.6	95.87	8.975	
15,400.0	10,530.0	15,595.7	10,526.4	49.7	46.5	89.36	-5,107.2	-1,813.3	860.4	764.4	96.01	8.962	
15,485.0	10,530.0	15,680.7	10,526.2	50.2	47.2	89.35	-5,192.2	-1,812.7	860.5	763.2	97.24	8.849	
15,500.0	10,530.0	15,695.7	10,526.2	50.3	47.3	89.34	-5,207.2	-1,812.7	860.5	763.0	97.46	8.829	
15,580.0	10,530.0	15,775.7	10,526.0	50.8	48.0	89.33	-5,287.2	-1,812.2	860.5	761.9	98.62	8.726	
15,600.0	10,530.0	15,795.7	10,526.0	50.9	48.2	89.33	-5,307.2	-1,812.0	860.5	761.6	98.91	8.700	
15,675.0	10,530.0	15,870.7	10,525.8	51.4	48.8	89.32	-5,382.2	-1,811.6	860.5	760.5	100.00	8.606	
15,700.0	10,530.0	15,895.7	10,525.8	51.5	49.0	89.32	-5,407.2	-1,811.4	860.6	760.2	100.36	8.575	
15,770.0	10,530.0	15,965.7	10,525.6	51.9	49.6	89.31	-5,477.2	-1,811.0	860.6	759.2	101.38	8.488	
15,800.0	10,530.0	15,995.7	10,525.5	52.1	49.9	89.30	-5,507.2	-1,810.8	860.6	758.8	101.82	8.452	
15,865.0	10,530.0	16,060.7	10,525.4	52.5	50.4	89.30	-5,572.2	-1,810.4	860.6	757.8	102.77	8.374	
15,900.0	10,530.0	16,095.7	10,525.3	52.7	50.7	89.29	-5,607.2	-1,810.2	860.6	757.3	103.28	8.333	
15,960.0	10,530.0	16,155.7	10,525.2	53.1	51.2	89.28	-5,667.2	-1,809.8	860.7	756.5	104.16	8.263	
16,000.0	10,530.0	16,195.7	10,525.1	53.4	51.5	89.28	-5,707.2	-1,809.6	860.7	755.9	104.75	8.216	
16,055.0	10,530.0	16,250.7	10,525.0	53.7	52.0	89.27	-5,762.2	-1,809.2	860.7	755.1	105.56	8.154	
16,100.0	10,530.0	16,295.7	10,524.9	54.0	52.4	89.26	-5,807.2	-1,809.0	860.7	754.5	106.22	8.103	
16,150.0	10,530.0	16,345.7	10,524.8	54.3	52.8	89.26	-5,857.2	-1,808.7	860.7	753.8	106.96	8.047	
16,200.0	10,530.0	16,395.7	10,524.7	54.6	53.2	89.25	-5,907.2	-1,808.4	860.7	753.1	107.70	7.992	
16,245.0	10,530.0	16,440.7	10,524.6	54.9	53.6	89.24	-5,952.2	-1,808.1	860.8	752.4	108.36	7.943	
16,300.0	10,530.0	16,495.7	10,524.5	55.3	54.1	89.24	-6,007.2	-1,807.7	860.8	751.6	109.18	7.884	
16,340.0	10,530.0	16,535.7	10,524.5	55.5	54.4	89.23	-6,047.2	-1,807.5	860.8	751.0	109.77	7.842	
16,400.0	10,530.0	16,595.7	10,524.3	55.9	54.9	89.22	-6,107.2	-1,807.1	860.8	750.2	110.66	7.779	
16,435.0	10,530.0	16,630.7	10,524.3	56.1	55.2	89.22	-6,142.2	-1,806.9	860.8	749.7	111.18	7.743	
16,500.0	10,530.0	16,695.7	10,524.1	56.5	55.8	89.21	-6,207.2	-1,806.5	860.9	748.7	112.15	7.676	
16,530.0	10,530.0	16,725.7	10,524.1	56.7	56.0	89.21	-6,237.2	-1,806.3	860.9	748.3	112.60	7.646	
16,600.0	10,530.0	16,795.7	10,523.9	57.2	56.6	89.20	-6,307.2	-1,805.9	860.9	747.3	113.64	7.576	
16,625.0	10,530.0	16,820.7	10,523.9	57.3	56.8	89.19	-6,332.2	-1,805.8	860.9	746.9	114.01	7.551	
16,700.0	10,530.0	16,895.7	10,523.7	57.8	57.4	89.18	-6,407.2	-1,805.3	860.9	745.8	115.13	7.478	
16,720.0	10,530.0	16,915.7	10,523.7	58.0	57.6	89.18	-6,427.2	-1,805.2	861.0	745.5	115.43	7.459	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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: Reference		0-Standard Keeper 104, 10158-MWD+IFR1+FDIR				Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
16,800.0	10,530.0	16,995.7	10,523.5	58.5	58.3	89.17	-6,507.1	-1,804.7	861.0	744.4	116.63	7.382			
16,815.0	10,530.0	17,010.7	10,523.5	58.6	58.4	89.17	-6,522.1	-1,804.6	861.0	744.1	116.85	7.368			
16,900.0	10,530.0	17,095.7	10,523.3	59.1	59.1	89.16	-6,607.1	-1,804.1	861.0	742.9	118.13	7.289			
16,910.0	10,530.0	17,105.7	10,523.3	59.2	59.2	89.16	-6,617.1	-1,804.0	861.0	742.8	118.28	7.280			
17,000.0	10,530.0	17,195.7	10,523.1	59.8	60.0	89.14	-6,707.1	-1,803.4	861.1	741.4	119.63	7.198			
17,005.0	10,530.0	17,200.7	10,523.1	59.8	60.0	89.14	-6,712.1	-1,803.4	861.1	741.4	119.71	7.193			
17,100.0	10,530.0	17,295.7	10,522.9	60.4	60.8	89.13	-6,807.1	-1,802.8	861.1	740.0	121.14	7.108			
17,195.0	10,530.0	17,390.7	10,522.7	61.1	61.6	89.12	-6,902.1	-1,802.3	861.1	738.6	122.57	7.026			
17,200.0	10,530.0	17,395.7	10,522.7	61.1	61.7	89.12	-6,907.1	-1,802.2	861.1	738.5	122.65	7.021			
17,290.0	10,530.0	17,485.7	10,522.5	61.7	62.4	89.10	-6,997.1	-1,801.7	861.2	737.2	124.01	6.944			
17,300.0	10,530.0	17,495.7	10,522.5	61.8	62.5	89.10	-7,007.1	-1,801.6	861.2	737.0	124.16	6.936			
17,385.0	10,530.0	17,580.7	10,522.3	62.3	63.2	89.09	-7,092.1	-1,801.1	861.2	735.8	125.45	6.865			
17,400.0	10,530.0	17,595.7	10,522.3	62.4	63.4	89.09	-7,107.1	-1,801.0	861.2	735.6	125.68	6.853			
17,480.0	10,530.0	17,675.7	10,522.2	63.0	64.0	89.08	-7,187.1	-1,800.5	861.3	734.4	126.89	6.788			
17,500.0	10,530.0	17,695.7	10,522.1	63.1	64.2	89.08	-7,207.1	-1,800.4	861.3	734.1	127.19	6.771			
17,575.0	10,530.0	17,770.7	10,522.0	63.6	64.9	89.07	-7,282.1	-1,799.9	861.3	733.0	128.33	6.711			
17,600.0	10,530.0	17,795.7	10,521.9	63.8	65.1	89.06	-7,307.1	-1,799.8	861.3	732.6	128.71	6.692			
17,670.0	10,530.0	17,865.7	10,521.8	64.2	65.7	89.05	-7,377.1	-1,799.3	861.3	731.6	129.78	6.637			
17,700.0	10,530.0	17,895.7	10,521.7	64.4	65.9	89.05	-7,407.1	-1,799.2	861.3	731.1	130.23	6.614			
17,765.0	10,530.0	17,960.7	10,521.6	64.9	66.5	89.04	-7,472.1	-1,798.8	861.4	730.1	131.22	6.564			
17,800.0	10,530.0	17,995.7	10,521.5	65.1	66.8	89.04	-7,507.1	-1,798.5	861.4	729.6	131.76	6.538			
17,860.0	10,530.0	18,055.7	10,521.4	65.5	67.3	89.03	-7,567.1	-1,798.2	861.4	728.7	132.67	6.493			
17,900.0	10,530.0	18,095.7	10,521.3	65.8	67.6	89.02	-7,607.1	-1,797.9	861.4	728.1	133.28	6.463			
17,955.0	10,530.0	18,150.7	10,521.2	66.2	68.1	89.02	-7,662.1	-1,797.6	861.5	727.3	134.13	6.423			
18,000.0	10,530.0	18,195.7	10,521.1	66.5	68.5	89.01	-7,707.1	-1,797.3	861.5	726.7	134.81	6.390			
18,050.0	10,530.0	18,245.7	10,521.0	66.8	68.9	89.00	-7,757.1	-1,797.0	861.5	725.9	135.58	6.354			
18,100.0	10,530.0	18,295.7	10,520.9	67.1	69.3	89.00	-7,807.1	-1,796.7	861.5	725.2	136.34	6.319			
18,145.0	10,530.0	18,340.7	10,520.8	67.4	69.7	88.99	-7,852.1	-1,796.4	861.5	724.5	137.03	6.287			
18,200.0	10,530.0	18,395.7	10,520.7	67.8	70.2	88.98	-7,907.1	-1,796.1	861.6	723.7	137.88	6.249			
18,240.0	10,530.0	18,435.7	10,520.6	68.1	70.5	88.98	-7,947.1	-1,795.8	861.6	723.1	138.49	6.221			
18,300.0	10,530.0	18,495.7	10,520.5	68.5	71.0	88.97	-8,007.1	-1,795.5	861.6	722.2	139.41	6.180			
18,335.0	10,530.0	18,530.7	10,520.4	68.7	71.3	88.96	-8,042.1	-1,795.3	861.6	721.7	139.95	6.157			
18,400.0	10,530.0	18,595.7	10,520.3	69.2	71.9	88.96	-8,107.1	-1,794.9	861.6	720.7	140.95	6.113			
18,430.0	10,530.0	18,625.7	10,520.2	69.4	72.1	88.95	-8,137.1	-1,794.7	861.6	720.2	141.41	6.093			
18,500.0	10,530.0	18,695.7	10,520.1	69.9	72.7	88.94	-8,207.1	-1,794.2	861.7	719.2	142.49	6.047			
18,525.0	10,530.0	18,720.7	10,520.0	70.0	72.9	88.94	-8,232.1	-1,794.1	861.7	718.8	142.87	6.031			
18,600.0	10,530.0	18,795.7	10,519.9	70.6	73.6	88.93	-8,307.1	-1,793.6	861.7	717.7	144.03	5.983			
18,620.0	10,530.0	18,815.7	10,519.8	70.7	73.7	88.93	-8,327.1	-1,793.5	861.7	717.4	144.34	5.970			
18,700.0	10,530.0	18,895.7	10,519.7	71.3	74.4	88.92	-8,407.1	-1,793.0	861.8	716.2	145.57	5.920			
18,715.0	10,530.0	18,910.7	10,519.7	71.4	74.5	88.91	-8,422.1	-1,792.9	861.8	716.0	145.80	5.911			
18,800.0	10,530.0	18,995.7	10,519.5	71.9	75.3	88.90	-8,507.1	-1,792.4	861.8	714.7	147.11	5.858			
18,810.0	10,530.0	19,005.7	10,519.5	72.0	75.4	88.90	-8,517.1	-1,792.3	861.8	714.5	147.27	5.852			
18,900.0	10,530.0	19,095.7	10,519.3	72.6	76.1	88.89	-8,607.1	-1,791.8	861.8	713.2	148.66	5.797			
18,905.0	10,530.0	19,100.7	10,519.3	72.7	76.2	88.89	-8,612.1	-1,791.8	861.8	713.1	148.74	5.794			
19,000.0	10,530.0	19,195.7	10,519.1	73.3	77.0	88.88	-8,707.1	-1,791.2	861.9	711.7	150.21	5.738			
19,095.0	10,530.0	19,290.7	10,518.9	74.0	77.8	88.86	-8,802.1	-1,790.6	861.9	710.2	151.68	5.683			
19,100.0	10,530.0	19,295.7	10,518.9	74.0	77.8	88.86	-8,807.1	-1,790.6	861.9	710.2	151.75	5.680			
19,190.0	10,530.0	19,385.7	10,518.7	74.7	78.6	88.85	-8,897.1	-1,790.0	862.0	708.8	153.15	5.628			
19,200.0	10,530.0	19,395.7	10,518.7	74.7	78.7	88.85	-8,907.1	-1,789.9	862.0	708.7	153.31	5.622			
19,285.0	10,530.0	19,480.7	10,518.5	75.3	79.4	88.84	-8,992.1	-1,789.4	862.0	707.4	154.62	5.575			
19,300.0	10,530.0	19,495.7	10,518.5	75.4	79.5	88.83	-9,007.1	-1,789.3	862.0	707.1	154.86	5.566			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #704H - OWB - PWP4											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
19,380.0	10,530.0	19,575.7	10,518.3	76.0	80.2	88.82	-9,087.1	-1,788.8	862.0	705.9	156.10	5.522
19,400.0	10,530.0	19,595.7	10,518.3	76.1	80.4	88.82	-9,107.1	-1,788.7	862.0	705.6	156.41	5.511
19,475.0	10,530.0	19,670.7	10,518.1	76.6	81.0	88.81	-9,182.1	-1,788.3	862.1	704.5	157.58	5.471
19,500.0	10,530.0	19,695.7	10,518.1	76.8	81.2	88.81	-9,207.1	-1,788.1	862.1	704.1	157.96	5.457
19,570.0	10,530.0	19,765.7	10,517.9	77.3	81.8	88.80	-9,277.1	-1,787.7	862.1	703.1	159.05	5.420
19,600.0	10,530.0	19,795.7	10,517.9	77.5	82.1	88.79	-9,307.1	-1,787.5	862.1	702.6	159.52	5.404
19,665.0	10,530.0	19,860.7	10,517.7	78.0	82.6	88.79	-9,372.1	-1,787.1	862.1	701.6	160.53	5.371
19,700.0	10,530.0	19,895.7	10,517.7	78.2	82.9	88.78	-9,407.1	-1,786.9	862.2	701.1	161.08	5.352
19,760.0	10,530.0	19,955.7	10,517.5	78.6	83.5	88.77	-9,467.1	-1,786.5	862.2	700.2	162.01	5.322
19,800.0	10,530.0	19,995.7	10,517.5	78.9	83.8	88.77	-9,507.1	-1,786.3	862.2	699.6	162.64	5.301
19,855.0	10,530.0	20,050.7	10,517.4	79.3	84.3	88.76	-9,562.1	-1,785.9	862.2	698.7	163.49	5.274
19,900.0	10,530.0	20,095.7	10,517.3	79.6	84.6	88.75	-9,607.1	-1,785.6	862.2	698.1	164.20	5.251
19,950.0	10,530.0	20,145.7	10,517.2	80.0	85.1	88.75	-9,657.1	-1,785.3	862.3	697.3	164.98	5.227
20,000.0	10,530.0	20,195.7	10,517.1	80.3	85.5	88.74	-9,707.1	-1,785.0	862.3	696.5	165.76	5.202
20,045.0	10,530.0	20,240.7	10,517.0	80.7	85.9	88.74	-9,752.1	-1,784.8	862.3	695.8	166.46	5.180
20,100.0	10,530.0	20,295.7	10,516.9	81.0	86.4	88.73	-9,807.1	-1,784.4	862.3	695.0	167.32	5.154
20,140.0	10,530.0	20,335.7	10,516.8	81.3	86.7	88.72	-9,847.1	-1,784.2	862.3	694.4	167.94	5.135
20,200.0	10,530.0	20,395.7	10,516.7	81.8	87.2	88.71	-9,907.1	-1,783.8	862.4	693.5	168.88	5.106
20,235.0	10,530.0	20,430.7	10,516.6	82.0	87.5	88.71	-9,942.1	-1,783.6	862.4	693.0	169.43	5.090
20,300.0	10,530.0	20,495.7	10,516.5	82.5	88.1	88.70	-10,007.1	-1,783.2	862.4	692.0	170.45	5.060
20,330.0	10,530.0	20,525.7	10,516.4	82.7	88.3	88.70	-10,037.1	-1,783.0	862.4	691.5	170.92	5.046
20,392.7	10,530.0	20,588.4	10,516.3	83.1	88.9	88.69	-10,099.8	-1,782.6	862.5	690.6	171.90	5.017
20,400.0	10,530.0	20,595.7	10,516.2	83.2	88.9	88.69	-10,107.1	-1,782.6	862.5	690.4	172.01	5.014
20,425.0	10,530.0	20,620.7	10,516.2	83.4	89.1	88.68	-10,132.1	-1,782.4	862.5	690.1	172.40	5.003
20,500.0	10,530.0	20,695.7	10,516.0	83.9	89.8	88.67	-10,207.1	-1,782.0	862.5	688.9	173.58	4.969
20,520.0	10,530.0	20,715.7	10,516.0	84.0	89.9	88.67	-10,227.1	-1,781.8	862.5	688.6	173.89	4.960
20,522.7	10,530.0	20,718.4	10,516.0	84.0	90.0	88.67	-10,229.8	-1,781.8	862.5	688.6	173.93	4.959 ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.47	-0.5	-60.1	60.1				
95.0	95.0	92.2	92.2	3.0	3.0	-91.10	-1.2	-59.9	59.9	53.9	6.00	9.985	
100.0	100.0	97.2	97.2	3.0	3.0	-91.17	-1.2	-59.9	59.9	53.9	6.00	9.982	
186.3	186.3	183.3	183.3	3.0	3.0	-92.63	-2.7	-59.6	59.6	53.6	6.00	9.934	
190.0	190.0	187.0	187.0	3.0	3.0	-92.68	-2.8	-59.6	59.6	53.6	6.00	9.934	
200.0	200.0	196.8	196.8	3.0	3.0	-92.79	-2.9	-59.6	59.6	53.6	6.00	9.937	
285.0	285.0	281.9	281.9	3.0	3.0	-92.98	-3.1	-59.7	59.8	53.8	6.01	9.953	
300.0	300.0	296.8	296.8	3.0	3.0	-92.97	-3.1	-59.8	59.8	53.8	6.01	9.958	
380.0	380.0	377.2	377.2	3.0	3.0	-92.91	-3.0	-59.9	60.0	53.9	6.02	9.966	
400.0	400.0	397.3	397.2	3.0	3.0	-92.90	-3.0	-59.8	59.9	53.9	6.02	9.951	
475.0	475.0	472.6	472.6	3.0	3.0	-92.97	-3.1	-59.3	59.4	53.4	6.03	9.858	
500.0	500.0	497.6	497.6	3.1	3.0	-93.02	-3.1	-59.1	59.2	53.1	6.03	9.813	
570.0	570.0	567.4	567.4	3.1	3.0	-93.49	-3.6	-58.5	58.6	52.5	6.04	9.696	
600.0	600.0	597.3	597.3	3.1	3.0	-93.70	-3.8	-58.3	58.4	52.4	6.05	9.657	
665.0	665.0	662.2	662.1	3.1	3.0	-94.35	-4.4	-58.0	58.2	52.1	6.07	9.594	
700.0	700.0	697.2	697.2	3.1	3.1	-94.65	-4.7	-57.9	58.1	52.0	6.10	9.525	
760.0	760.0	757.2	757.2	3.1	3.1	-94.83	-4.9	-57.7	57.9	51.7	6.18	9.371	
800.0	800.0	797.2	797.2	3.2	3.2	-94.72	-4.8	-57.6	57.8	51.5	6.25	9.243	
855.0	855.0	852.3	852.3	3.2	3.3	-94.29	-4.3	-57.4	57.6	51.2	6.34	9.082	
900.0	900.0	897.4	897.3	3.2	3.4	-93.81	-3.8	-57.2	57.3	50.9	6.39	8.969	
950.0	950.0	947.3	947.2	3.2	3.4	-93.27	-3.3	-57.0	57.0	50.6	6.44	8.852	
1,000.0	1,000.0	997.2	997.2	3.2	3.5	-92.72	-2.7	-56.8	56.9	50.4	6.52	8.729	
1,045.0	1,045.0	1,042.2	1,042.1	3.3	3.6	-92.13	-2.1	-56.7	56.8	50.2	6.59	8.612	
1,100.0	1,100.0	1,097.2	1,097.1	3.3	3.7	-91.31	-1.3	-56.6	56.6	50.0	6.69	8.467	
1,140.0	1,140.0	1,137.2	1,137.1	3.3	3.8	-90.70	-0.7	-56.6	56.6	49.8	6.76	8.361	
1,200.0	1,200.0	1,197.1	1,197.0	3.4	3.9	-89.74	0.3	-56.5	56.5	49.6	6.88	8.204	
1,235.0	1,235.0	1,232.1	1,232.0	3.4	4.0	-89.16	0.8	-56.4	56.5	49.5	6.95	8.118	
1,237.8	1,237.8	1,234.9	1,234.8	3.4	4.0	-89.11	0.9	-56.4	56.5	49.5	6.96	8.111	
1,300.0	1,300.0	1,297.1	1,297.0	3.4	4.1	-87.94	2.0	-56.4	56.5	49.4	7.09	7.961	
1,330.0	1,330.0	1,327.0	1,327.0	3.4	4.2	-87.30	2.7	-56.4	56.5	49.3	7.16	7.891	
1,400.0	1,400.0	1,396.6	1,396.5	3.5	4.3	-85.68	4.3	-56.7	56.9	49.5	7.31	7.781	
1,425.0	1,425.0	1,421.4	1,421.3	3.5	4.4	-85.08	4.9	-56.9	57.1	49.8	7.36	7.761	
1,500.0	1,500.0	1,496.2	1,496.0	3.5	4.6	-83.64	6.5	-57.9	58.2	50.7	7.53	7.736	
1,520.0	1,520.0	1,516.1	1,516.0	3.6	4.6	-83.35	6.8	-58.2	58.6	51.0	7.57	7.733	
1,600.0	1,600.0	1,595.9	1,595.7	3.6	4.8	-82.33	8.0	-59.5	60.1	52.3	7.77	7.735	
1,615.0	1,615.0	1,611.1	1,610.9	3.6	4.9	-82.15	8.2	-59.8	60.4	52.6	7.81	7.732	
1,700.0	1,700.0	1,697.3	1,697.1	3.7	5.1	-81.51	9.0	-60.3	61.0	52.9	8.05	7.570	
1,710.0	1,710.0	1,707.3	1,707.2	3.7	5.2	-81.47	9.0	-60.3	60.9	52.9	8.09	7.537	
1,800.0	1,800.0	1,797.6	1,797.4	3.8	5.4	-81.24	9.2	-59.8	60.5	52.1	8.38	7.221	
1,805.0	1,805.0	1,802.6	1,802.4	3.8	5.4	-81.23	9.2	-59.8	60.5	52.1	8.40	7.203	
1,900.0	1,900.0	1,897.7	1,897.6	3.9	5.6	-81.12	9.2	-59.0	59.7	51.0	8.70	6.862	
1,995.0	1,995.0	1,992.7	1,992.5	3.9	5.9	-81.15	9.0	-58.1	58.8	49.8	9.00	6.534	
2,000.0	2,000.0	1,997.7	1,997.5	3.9	5.9	-81.16	9.0	-58.1	58.8	49.7	9.02	6.518	
2,090.0	2,090.0	2,087.7	2,087.5	4.1	6.1	-67.67	8.7	-57.4	57.5	48.2	9.29	6.187	
2,100.0	2,100.0	2,097.7	2,097.5	4.2	6.2	-68.02	8.7	-57.3	57.3	48.0	9.32	6.144	
2,185.0	2,184.9	2,182.6	2,182.4	4.7	6.4	-72.42	8.3	-56.6	55.1	45.5	9.61	5.732	
2,200.0	2,199.8	2,197.5	2,197.3	4.8	6.5	-73.49	8.2	-56.4	54.6	45.0	9.66	5.657	
2,250.0	2,249.7	2,247.3	2,247.1	4.9	6.6	-77.71	8.1	-56.0	53.3	43.4	9.85	5.405	
2,280.0	2,279.6	2,277.1	2,276.9	5.0	6.7	-80.57	8.0	-55.8	52.6	42.6	9.99	5.262	
2,300.0	2,299.5	2,297.0	2,296.8	5.0	6.7	-82.50	8.0	-55.7	52.2	42.1	10.09	5.176	
2,375.0	2,374.2	2,371.6	2,371.4	5.1	7.0	-89.95	7.8	-55.4	51.5	41.0	10.52	4.894	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,393.0	2,392.2	2,389.5	2,389.3	5.1	7.0	-91.80	7.7	-55.3	51.5	40.8	10.64	4.838	
2,400.0	2,399.1	2,396.4	2,396.2	5.1	7.0	-92.53	7.7	-55.3	51.5	40.8	10.68	4.817	
2,470.0	2,468.8	2,466.1	2,465.9	5.2	7.3	-99.77	7.2	-55.0	52.0	40.8	11.20	4.642	
2,500.0	2,498.7	2,495.9	2,495.7	5.3	7.4	-102.79	7.1	-54.9	52.5	41.1	11.44	4.590	
2,535.0	2,533.6	2,530.8	2,530.6	5.3	7.5	-106.23	6.9	-54.8	53.3	41.6	11.70	4.553	
2,565.0	2,563.5	2,560.7	2,560.5	5.3	7.6	-102.38	6.7	-54.7	53.9	42.0	11.94	4.516	
2,600.0	2,598.4	2,595.6	2,595.3	5.4	7.7	-97.36	6.5	-54.5	54.4	42.2	12.22	4.455	
2,660.0	2,658.2	2,655.3	2,655.1	5.6	7.9	-88.55	6.1	-54.3	54.7	41.8	12.86	4.253	
2,700.0	2,698.0	2,695.2	2,695.0	5.8	8.0	-83.39	5.9	-54.0	54.5	41.2	13.31	4.092	
2,755.0	2,752.8	2,749.8	2,749.6	6.1	8.2	-78.35	5.3	-53.5	53.8	39.8	13.95	3.855	
2,800.0	2,797.6	2,794.5	2,794.2	6.4	8.3	-76.34	4.7	-53.0	53.0	38.5	14.49	3.658	
2,850.0	2,847.3	2,844.0	2,843.7	6.6	8.5	-76.31	3.8	-52.2	52.1	37.1	14.97	3.481	
2,900.0	2,896.9	2,893.4	2,893.1	6.9	8.7	-78.46	2.8	-51.4	51.4	35.9	15.46	3.324	
2,941.6	2,938.2	2,934.4	2,934.1	7.0	8.8	-81.77	1.9	-50.6	51.2	35.4	15.77	3.245 CC	
2,945.0	2,941.5	2,937.7	2,937.5	7.0	8.8	-82.09	1.8	-50.5	51.2	35.4	15.80	3.240 ES	
3,000.0	2,995.9	2,991.7	2,991.4	7.2	9.0	-88.35	0.4	-49.2	51.8	35.6	16.19	3.202 SF	
3,040.0	3,035.4	3,030.7	3,030.3	7.4	9.1	-93.89	-0.8	-48.0	53.3	36.9	16.38	3.256	
3,100.0	3,094.4	3,089.2	3,088.7	7.5	9.3	-102.91	-2.8	-45.8	57.5	40.9	16.61	3.461	
3,135.0	3,128.8	3,123.1	3,122.7	7.6	9.4	-108.12	-3.9	-44.4	61.1	44.4	16.66	3.665	
3,144.0	3,137.6	3,131.8	3,131.4	7.6	9.5	-109.43	-4.2	-44.0	62.1	45.4	16.67	3.726	
3,200.0	3,192.5	3,187.1	3,186.5	7.7	9.7	-118.94	-5.9	-41.8	69.5	52.8	16.75	4.150	
3,230.0	3,221.9	3,216.8	3,216.2	7.8	9.8	-123.18	-6.6	-40.9	73.8	57.0	16.81	4.392	
3,300.0	3,290.5	3,286.7	3,286.1	8.0	10.0	-131.08	-8.1	-39.7	84.3	67.3	16.98	4.963	
3,325.0	3,315.0	3,311.9	3,311.3	8.0	10.1	-133.30	-8.7	-39.7	88.0	70.9	17.07	5.154	
3,400.0	3,388.5	3,387.8	3,387.2	8.2	10.3	-138.73	-10.0	-41.0	98.5	81.0	17.47	5.637	
3,420.0	3,408.1	3,408.1	3,407.4	8.2	10.4	-139.94	-10.2	-41.6	101.1	83.5	17.59	5.750	
3,500.0	3,486.5	3,486.9	3,486.2	8.4	10.7	-144.09	-11.2	-44.3	111.9	93.9	18.01	6.211	
3,515.0	3,501.2	3,501.7	3,501.0	8.5	10.7	-144.78	-11.4	-44.7	114.0	95.9	18.10	6.297	
3,600.0	3,584.4	3,585.4	3,584.6	8.7	11.0	-148.27	-12.4	-47.4	126.1	107.5	18.55	6.797	
3,610.0	3,594.2	3,595.3	3,594.5	8.7	11.0	-148.64	-12.6	-47.8	127.5	108.9	18.60	6.855	
3,700.0	3,682.4	3,684.4	3,683.5	9.0	11.3	-151.60	-13.7	-50.7	140.7	121.6	19.11	7.360	
3,705.0	3,687.3	3,689.3	3,688.4	9.0	11.3	-151.74	-13.7	-50.9	141.4	122.3	19.14	7.388	
3,800.0	3,780.4	3,782.6	3,781.7	9.2	11.6	-154.25	-14.9	-54.0	155.7	136.0	19.71	7.902	
3,895.0	3,873.5	3,876.2	3,875.3	9.5	11.9	-156.35	-16.2	-57.0	170.4	150.1	20.29	8.397	
3,900.0	3,878.4	3,881.1	3,880.2	9.5	11.9	-156.45	-16.2	-57.1	171.1	150.8	20.32	8.422	
3,990.0	3,966.6	3,969.7	3,968.7	9.8	12.2	-158.14	-17.4	-59.9	185.3	164.4	20.89	8.872	
4,000.0	3,976.4	3,979.6	3,978.6	9.8	12.3	-158.31	-17.5	-60.2	186.9	165.9	20.95	8.920	
4,085.0	4,059.7	4,063.6	4,062.5	10.1	12.5	-159.68	-18.5	-62.8	200.3	178.8	21.50	9.319	
4,100.0	4,074.4	4,078.3	4,077.3	10.1	12.6	-159.91	-18.6	-63.2	202.7	181.1	21.59	9.388	
4,180.0	4,152.8	4,156.8	4,155.8	10.4	12.9	-161.04	-19.4	-65.6	215.5	193.4	22.11	9.748	
4,200.0	4,172.4	4,176.5	4,175.4	10.4	12.9	-161.31	-19.6	-66.2	218.8	196.5	22.24	9.837	
4,275.0	4,245.9	4,250.1	4,249.0	10.7	13.2	-162.27	-20.2	-68.2	231.0	208.3	22.73	10.164	
4,300.0	4,270.4	4,274.8	4,273.6	10.7	13.3	-162.58	-20.4	-68.9	235.2	212.3	22.90	10.271	
4,370.0	4,339.0	4,342.8	4,341.6	11.0	13.5	-163.46	-20.5	-70.7	246.8	223.4	23.35	10.569	
4,400.0	4,368.4	4,371.4	4,370.2	11.1	13.6	-163.88	-20.3	-71.3	251.9	228.3	23.53	10.703	
4,465.0	4,432.1	4,434.4	4,433.2	11.3	13.8	-164.89	-19.1	-72.2	263.3	239.4	23.95	10.996	
4,500.0	4,466.4	4,468.9	4,467.7	11.4	13.9	-165.43	-18.4	-72.7	269.5	245.4	24.18	11.149	
4,560.0	4,525.2	4,527.7	4,526.5	11.6	14.1	-166.31	-17.0	-73.6	280.2	255.7	24.57	11.407	
4,600.0	4,564.4	4,566.8	4,565.6	11.7	14.3	-166.85	-16.2	-74.1	287.4	262.6	24.83	11.577	
4,655.0	4,618.3	4,620.7	4,619.5	11.9	14.4	-167.54	-15.1	-74.8	297.3	272.1	25.18	11.806	
4,700.0	4,662.4	4,664.9	4,663.6	12.0	14.6	-168.07	-14.2	-75.4	305.5	280.0	25.48	11.989	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,750.0	4,711.4	4,714.4	4,713.1	12.2	14.8	-168.62	-13.2	-76.2	314.6	288.7	25.81	12.186		
4,800.0	4,760.4	4,764.0	4,762.7	12.4	14.9	-169.15	-12.2	-76.9	323.6	297.4	26.15	12.375		
4,845.0	4,804.4	4,808.1	4,806.8	12.5	15.1	-169.60	-11.3	-77.7	331.7	305.2	26.44	12.542		
4,900.0	4,858.3	4,861.5	4,860.2	12.7	15.3	-170.12	-10.2	-78.5	341.6	314.8	26.81	12.744		
4,940.0	4,897.5	4,898.9	4,897.6	12.8	15.4	-170.45	-9.5	-78.9	349.0	322.0	27.06	12.897		
5,000.0	4,956.3	4,955.2	4,953.8	13.1	15.6	-170.86	-8.9	-79.2	360.6	333.1	27.45	13.134		
5,035.0	4,990.6	4,988.6	4,987.3	13.2	15.7	-171.07	-8.6	-79.2	367.5	339.8	27.69	13.273		
5,100.0	5,054.3	5,051.2	5,049.8	13.4	15.9	-171.40	-8.4	-79.1	380.5	352.3	28.12	13.528		
5,130.0	5,083.7	5,080.8	5,079.5	13.5	16.0	-171.55	-8.3	-79.0	386.5	358.2	28.33	13.640		
5,200.0	5,152.3	5,150.1	5,148.7	13.7	16.2	-171.87	-8.1	-78.8	400.5	371.6	28.82	13.893		
5,225.0	5,176.8	5,174.8	5,173.4	13.8	16.3	-171.98	-8.0	-78.8	405.4	376.4	29.00	13.981		
5,300.0	5,250.3	5,248.8	5,247.5	14.1	16.6	-172.28	-7.9	-78.8	420.3	390.7	29.52	14.237		
5,320.0	5,269.9	5,268.5	5,267.2	14.2	16.6	-172.36	-7.9	-78.8	424.2	394.5	29.66	14.304		
5,400.0	5,348.3	5,347.5	5,346.2	14.4	16.9	-172.65	-7.8	-78.9	439.9	409.7	30.21	14.563		
5,415.0	5,363.0	5,362.4	5,361.0	14.5	17.0	-172.70	-7.8	-78.9	442.9	412.5	30.31	14.610		
5,500.0	5,446.3	5,446.5	5,445.1	14.8	17.3	-173.01	-7.5	-79.2	459.4	428.5	30.90	14.867		
5,510.0	5,456.1	5,456.4	5,455.1	14.8	17.3	-173.04	-7.5	-79.2	461.4	430.4	30.97	14.897		
5,600.0	5,544.3	5,545.2	5,543.8	15.1	17.6	-173.34	-7.2	-79.7	478.8	447.2	31.59	15.153		
5,605.0	5,549.2	5,550.1	5,548.7	15.2	17.6	-173.36	-7.2	-79.7	479.7	448.1	31.63	15.167		
5,700.0	5,642.3	5,661.3	5,659.9	15.5	18.0	-173.62	-7.6	-81.8	496.8	464.4	32.45	15.310		
5,795.0	5,735.4	5,758.4	5,756.9	15.8	18.4	-173.78	-8.8	-86.2	511.4	478.2	33.21	15.396		
5,800.0	5,740.3	5,763.5	5,762.0	15.9	18.4	-173.79	-8.8	-86.5	512.1	478.9	33.25	15.402		
5,890.0	5,828.5	5,855.9	5,854.3	16.2	18.8	-174.05	-8.8	-91.3	525.4	491.5	33.90	15.499		
5,900.0	5,838.3	5,866.1	5,864.5	16.2	18.8	-174.08	-8.7	-91.8	526.8	492.9	33.97	15.509		
5,985.0	5,921.6	5,952.8	5,951.0	16.5	19.1	-174.32	-8.8	-96.8	538.8	504.3	34.58	15.584		
6,000.0	5,936.3	5,968.1	5,966.3	16.6	19.2	-174.35	-8.9	-97.8	540.9	506.2	34.68	15.595		
6,080.0	6,014.7	6,050.5	6,048.6	16.9	19.4	-174.47	-9.8	-102.9	551.8	516.5	35.26	15.647		
6,100.0	6,034.2	6,071.8	6,069.7	16.9	19.5	-174.50	-10.1	-104.4	554.4	519.0	35.41	15.656		
6,175.0	6,107.7	6,152.0	6,149.7	17.2	19.8	-174.59	-11.2	-110.3	563.8	527.8	35.97	15.676		
6,200.0	6,132.2	6,179.0	6,176.7	17.3	19.9	-174.62	-11.6	-112.4	566.7	530.6	36.15	15.677		
6,270.0	6,200.8	6,250.3	6,247.7	17.6	20.1	-174.70	-12.8	-118.5	574.6	538.0	36.66	15.676		
6,300.0	6,230.2	6,279.4	6,276.7	17.7	20.2	-174.73	-13.2	-121.0	578.0	541.2	36.87	15.678		
6,365.0	6,293.9	6,343.1	6,340.1	17.9	20.5	-174.80	-14.3	-126.3	585.5	548.2	37.33	15.684		
6,400.0	6,328.2	6,377.5	6,374.5	18.0	20.6	-174.84	-14.8	-129.2	589.6	552.0	37.58	15.688		
6,460.0	6,387.0	6,436.6	6,433.3	18.3	20.8	-174.91	-15.5	-134.0	596.5	558.5	38.01	15.696		
6,500.0	6,426.2	6,476.0	6,472.5	18.4	20.9	-174.97	-15.9	-137.3	601.2	562.9	38.29	15.701		
6,555.0	6,480.1	6,531.2	6,527.6	18.6	21.1	-175.06	-16.4	-141.8	607.7	569.0	38.69	15.708		
6,600.0	6,524.2	6,577.0	6,573.2	18.8	21.3	-175.13	-16.8	-145.6	612.9	573.9	39.01	15.710		
6,650.0	6,573.2	6,632.6	6,628.6	19.0	21.5	-175.24	-17.1	-150.6	618.4	579.0	39.39	15.700		
6,700.0	6,622.2	6,685.3	6,681.1	19.1	21.7	-175.36	-17.2	-155.8	623.5	583.7	39.75	15.683		
6,745.0	6,666.3	6,729.6	6,725.2	19.3	21.8	-175.46	-17.3	-160.2	628.0	587.9	40.07	15.671		
6,800.0	6,720.2	6,783.8	6,779.1	19.5	22.0	-175.57	-17.5	-165.5	633.6	593.1	40.47	15.658		
6,840.0	6,759.4	6,823.3	6,818.4	19.7	22.2	-175.66	-17.6	-169.3	637.7	596.9	40.75	15.648		
6,900.0	6,818.2	6,882.1	6,876.9	19.9	22.4	-175.78	-17.8	-175.0	643.9	602.7	41.18	15.636		
6,935.0	6,852.5	6,916.3	6,911.0	20.0	22.5	-175.85	-17.9	-178.3	647.5	606.1	41.43	15.631		
7,000.0	6,916.2	6,981.4	6,975.7	20.2	22.7	-175.97	-18.1	-184.5	654.4	612.5	41.90	15.619		
7,030.0	6,945.6	7,011.7	7,005.9	20.4	22.8	-176.02	-18.3	-187.4	657.5	615.4	42.11	15.613		
7,100.0	7,014.2	7,078.0	7,072.0	20.6	23.0	-176.13	-18.8	-193.7	664.9	622.3	42.61	15.605		
7,125.0	7,038.7	7,101.4	7,095.2	20.7	23.1	-176.16	-18.9	-195.8	667.6	624.8	42.78	15.606		
7,200.0	7,112.2	7,171.0	7,164.6	21.0	23.4	-176.27	-19.3	-201.7	676.2	632.9	43.30	15.616		
7,220.0	7,131.8	7,189.5	7,183.0	21.1	23.4	-176.30	-19.4	-203.2	678.6	635.1	43.44	15.621		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
7,300.0	7,210.2	7,261.5	7,254.8	21.4	23.7	-176.41	-19.7	-208.6	688.6	644.6	43.98	15.655	
7,315.0	7,224.9	7,274.9	7,268.1	21.4	23.7	-176.43	-19.8	-209.5	690.5	646.5	44.08	15.664	
7,400.0	7,308.1	7,383.6	7,376.5	21.7	24.2	-176.55	-20.7	-218.2	700.9	656.1	44.83	15.635	
7,410.0	7,317.9	7,397.9	7,390.7	21.8	24.2	-176.56	-20.9	-219.6	701.8	656.9	44.92	15.625	
7,500.0	7,406.1	7,501.9	7,493.9	22.1	24.7	-176.79	-20.9	-232.6	708.6	662.9	45.70	15.508	
7,505.0	7,411.0	7,506.1	7,498.0	22.1	24.7	-176.80	-20.9	-233.1	709.0	663.3	45.73	15.503	
7,600.0	7,504.1	7,588.7	7,580.1	22.5	25.0	-177.00	-20.7	-242.9	716.9	670.5	46.42	15.443	
7,648.7	7,551.8	7,636.4	7,627.5	22.7	25.2	-177.12	-20.4	-248.2	721.3	674.5	46.77	15.421	
7,695.0	7,597.3	7,686.5	7,677.3	22.8	25.4	-177.26	-19.9	-253.9	725.1	678.0	47.12	15.388	
7,700.0	7,602.2	7,692.3	7,683.1	22.8	25.4	-177.28	-19.8	-254.5	725.4	678.3	47.16	15.383	
7,790.0	7,691.0	7,790.3	7,780.3	23.2	25.8	-177.65	-17.7	-267.0	729.3	681.4	47.88	15.233	
7,800.0	7,700.8	7,800.4	7,790.3	23.2	25.8	-177.68	-17.5	-268.4	729.5	681.6	47.96	15.213	
7,885.0	7,785.1	7,882.2	7,871.4	23.6	26.1	-177.91	-16.5	-278.9	730.1	681.5	48.65	15.009	
7,900.0	7,800.0	7,896.1	7,885.2	23.6	26.2	-177.94	-16.4	-280.6	730.0	681.3	48.77	14.970	
7,980.0	7,879.6	7,969.9	7,958.4	23.9	26.4	-178.08	-16.2	-289.4	728.6	679.2	49.39	14.751	
8,000.0	7,899.5	7,988.3	7,976.7	24.0	26.5	-178.12	-16.2	-291.4	728.0	678.5	49.55	14.692	
8,075.0	7,974.4	8,056.0	8,044.0	24.3	26.7	-178.23	-16.0	-298.7	725.0	674.8	50.13	14.462	
8,100.0	7,999.3	8,078.2	8,066.1	24.4	26.8	-178.25	-16.0	-300.9	723.7	673.4	50.32	14.382	
8,170.0	8,069.3	8,145.8	8,133.4	24.7	27.0	-178.30	-16.5	-307.2	719.3	668.5	50.86	14.142	
8,200.0	8,099.3	8,176.9	8,164.4	24.8	27.2	-178.31	-16.8	-310.1	716.9	665.8	51.11	14.028	
8,223.7	8,123.0	8,201.7	8,189.0	24.9	27.2	80.98	-17.2	-312.4	714.7	663.5	51.27	13.941	
8,265.0	8,164.3	8,251.6	8,238.7	25.0	27.4	80.98	-18.1	-317.5	710.5	658.9	51.57	13.776	
8,300.0	8,199.3	8,293.8	8,280.6	25.1	27.6	80.98	-18.8	-322.3	706.5	654.7	51.83	13.632	
8,360.0	8,259.3	8,351.8	8,338.3	25.3	27.8	81.00	-20.0	-329.0	699.4	647.2	52.23	13.393	
8,400.0	8,299.3	8,395.2	8,381.3	25.4	28.0	81.02	-21.1	-334.0	694.7	642.2	52.51	13.231	
8,455.0	8,354.3	8,470.9	8,456.3	25.6	28.2	81.04	-23.0	-344.2	687.2	634.2	52.92	12.984	
8,500.0	8,399.3	8,510.1	8,495.0	25.7	28.4	81.04	-23.9	-350.0	680.5	627.2	53.24	12.782	
8,550.0	8,449.3	8,553.7	8,538.2	25.9	28.6	81.05	-24.9	-356.0	673.4	619.8	53.58	12.568	
8,600.0	8,499.3	8,601.2	8,585.3	26.0	28.7	81.04	-25.9	-362.4	666.7	612.8	53.92	12.366	
8,645.0	8,544.3	8,644.8	8,628.5	26.1	28.9	81.02	-26.6	-368.1	660.7	606.5	54.22	12.187	
8,700.0	8,599.3	8,702.8	8,686.0	26.3	29.1	80.96	-27.1	-375.9	653.4	598.8	54.58	11.970	
8,740.0	8,639.3	8,745.5	8,728.3	26.4	29.3	80.87	-27.0	-382.0	647.8	592.9	54.85	11.810	
8,800.0	8,699.3	8,796.3	8,778.6	26.6	29.4	80.73	-26.6	-389.0	639.7	584.4	55.23	11.581	
8,835.0	8,734.3	8,826.3	8,808.3	26.7	29.6	80.64	-26.2	-392.8	635.3	579.8	55.46	11.456	
8,900.0	8,799.3	8,887.3	8,868.9	26.9	29.8	80.45	-25.3	-400.3	627.6	571.8	55.88	11.232	
8,930.0	8,829.3	8,915.8	8,897.1	27.0	29.9	80.35	-24.8	-403.6	624.2	568.1	56.08	11.131	
9,000.0	8,899.3	8,974.2	8,955.2	27.2	30.1	80.18	-24.0	-410.0	616.8	560.3	56.51	10.915	
9,025.0	8,924.3	8,994.8	8,975.6	27.3	30.2	80.12	-23.7	-412.0	614.5	557.9	56.67	10.845	
9,100.0	8,999.3	9,071.5	9,052.0	27.5	30.5	79.93	-22.9	-418.9	608.1	550.9	57.18	10.634	
9,120.0	9,019.3	9,093.7	9,074.2	27.6	30.6	79.87	-22.7	-421.0	606.2	548.9	57.33	10.574	
9,200.0	9,099.3	9,174.1	9,154.1	27.8	30.8	79.67	-22.0	-429.1	598.4	540.6	57.86	10.343	
9,215.0	9,114.3	9,188.9	9,168.9	27.9	30.9	79.64	-21.9	-430.5	597.0	539.0	57.96	10.300	
9,300.0	9,199.3	9,270.6	9,250.2	28.2	31.2	79.45	-21.4	-438.4	589.0	530.5	58.52	10.065	
9,310.0	9,209.3	9,280.2	9,259.7	28.2	31.2	79.43	-21.3	-439.3	588.1	529.5	58.58	10.039	
9,400.0	9,299.3	9,363.8	9,343.0	28.5	31.5	79.27	-21.1	-446.7	580.4	521.2	59.16	9.810	
9,405.0	9,304.3	9,368.4	9,347.6	28.5	31.5	79.27	-21.1	-447.1	580.0	520.8	59.19	9.798	
9,500.0	9,399.3	9,485.1	9,463.6	28.8	32.0	78.91	-19.8	-459.2	570.4	510.5	59.91	9.521	
9,595.0	9,494.3	9,578.9	9,556.6	29.1	32.4	78.36	-16.7	-471.2	559.1	498.5	60.55	9.233	
9,600.0	9,499.3	9,583.3	9,561.0	29.1	32.4	78.33	-16.6	-471.8	558.5	497.9	60.58	9.218	
9,690.0	9,589.3	9,663.6	9,640.7	29.4	32.7	77.84	-13.8	-481.2	548.8	487.7	61.16	8.974	
9,700.0	9,599.3	9,672.5	9,649.6	29.4	32.7	77.79	-13.4	-482.1	547.8	486.6	61.22	8.948	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,785.0	9,684.3	9,749.2	9,725.8	29.7	33.0	77.35	-10.9	-489.7	540.2	478.5	61.76	8.747		
9,800.0	9,699.3	9,762.9	9,739.5	29.7	33.0	77.28	-10.4	-491.0	539.0	477.1	61.85	8.714		
9,880.0	9,779.3	9,837.3	9,813.5	30.0	33.3	76.88	-8.1	-497.2	533.1	470.7	62.36	8.548		
9,900.0	9,799.3	9,857.7	9,833.9	30.0	33.4	76.78	-7.5	-498.8	531.6	469.2	62.49	8.507		
9,975.0	9,874.3	9,933.6	9,909.5	30.3	33.6	76.39	-5.3	-504.9	526.2	463.2	63.00	8.353		
10,000.0	9,899.3	9,958.0	9,933.8	30.4	33.7	76.27	-4.6	-506.9	524.4	461.3	63.16	8.303		
10,070.0	9,969.3	10,025.7	10,001.3	30.6	34.0	75.95	-2.9	-512.2	519.5	455.9	63.61	8.167		
10,100.0	9,999.3	10,054.1	10,029.6	30.7	34.1	75.83	-2.3	-514.3	517.6	453.8	63.81	8.112		
10,153.2	10,052.5	10,104.7	10,080.1	30.8	34.3	75.62	-1.2	-517.8	514.3	450.2	64.08	8.025		
10,165.0	10,064.3	10,116.5	10,091.8	30.8	34.3	-101.08	-1.0	-518.5	513.6	449.5	64.12	8.010		
10,175.0	10,074.3	10,126.4	10,101.7	30.8	34.3	-101.22	-0.8	-519.2	513.1	448.9	64.16	7.997		
10,200.0	10,099.2	10,151.2	10,126.5	30.8	34.4	-101.65	-0.3	-520.9	512.0	447.7	64.24	7.970		
10,225.0	10,124.0	10,169.0	10,144.2	30.8	34.5	-102.04	0.1	-522.0	511.2	446.9	64.26	7.954		
10,231.0	10,129.9	10,169.0	10,144.2	30.8	34.5	-102.05	0.1	-522.0	511.1	446.9	64.23	7.957		
10,250.0	10,148.6	10,169.0	10,144.2	30.8	34.5	-101.99	0.1	-522.0	511.6	447.5	64.10	7.981		
10,260.0	10,158.4	10,169.0	10,144.2	30.8	34.5	-101.93	0.1	-522.0	512.1	448.1	64.01	8.001		
10,275.0	10,173.0	10,169.0	10,144.2	30.8	34.5	-101.77	0.1	-522.0	513.4	449.6	63.85	8.042		
10,300.0	10,197.0	10,169.0	10,144.2	30.8	34.5	-101.38	0.1	-522.0	516.8	453.3	63.51	8.137		
10,325.0	10,220.6	10,169.0	10,144.2	30.8	34.5	-100.80	0.1	-522.0	521.6	458.5	63.11	8.264		
10,350.0	10,243.8	10,169.0	10,144.2	30.8	34.5	-100.05	0.1	-522.0	527.7	465.1	62.66	8.422		
10,355.0	10,248.3	10,169.0	10,144.2	30.9	34.5	-99.88	0.1	-522.0	529.1	466.5	62.57	8.457		
10,375.0	10,266.4	10,169.0	10,144.2	30.9	34.5	-99.12	0.1	-522.0	535.2	473.0	62.18	8.608		
10,400.0	10,288.5	10,169.0	10,144.2	30.9	34.5	-98.02	0.1	-522.0	543.9	482.2	61.67	8.819		
10,425.0	10,309.9	10,169.0	10,144.2	30.9	34.5	-96.74	0.1	-522.0	553.8	492.6	61.16	9.054		
10,450.0	10,330.6	10,169.0	10,144.2	30.9	34.5	-95.29	0.1	-522.0	564.7	504.1	60.67	9.309		
10,475.0	10,350.5	10,169.0	10,144.2	30.9	34.5	-93.66	0.1	-522.0	576.7	516.5	60.19	9.580		
10,500.0	10,369.6	10,169.0	10,144.2	31.0	34.5	-91.88	0.1	-522.0	589.5	529.7	59.75	9.865		
10,525.0	10,387.9	10,169.0	10,144.2	31.0	34.5	-89.93	0.1	-522.0	603.1	543.7	59.35	10.161		
10,545.0	10,401.8	10,169.0	10,144.2	31.0	34.5	-88.26	0.1	-522.0	614.5	555.4	59.07	10.403		
10,550.0	10,405.2	10,169.0	10,144.2	31.0	34.5	-87.83	0.1	-522.0	617.4	558.4	59.00	10.465		
10,575.0	10,421.6	10,169.0	10,144.2	31.0	34.5	-85.59	0.1	-522.0	632.4	573.7	58.70	10.773		
10,600.0	10,436.9	10,169.0	10,144.2	31.0	34.5	-83.24	0.1	-522.0	647.9	589.4	58.45	11.084		
10,625.0	10,451.2	10,169.0	10,144.2	31.1	34.5	-80.77	0.1	-522.0	663.8	605.6	58.26	11.395		
10,640.0	10,459.3	10,169.0	10,144.2	31.1	34.5	-79.25	0.1	-522.0	673.6	615.4	58.17	11.581		
10,650.0	10,464.4	10,169.0	10,144.2	31.1	34.5	-78.22	0.1	-522.0	680.2	622.1	58.11	11.704		
10,675.0	10,476.5	10,169.0	10,144.2	31.1	34.5	-75.61	0.1	-522.0	696.8	638.8	58.02	12.010		
10,700.0	10,487.4	10,169.0	10,144.2	31.1	34.5	-72.96	0.1	-522.0	713.7	655.8	57.98	12.310		
10,725.0	10,497.1	10,169.0	10,144.2	31.2	34.5	-70.29	0.1	-522.0	730.8	672.9	57.98	12.605		
10,735.0	10,500.7	10,169.0	10,144.2	31.2	34.5	-69.22	0.1	-522.0	737.7	679.7	57.99	12.721		
10,750.0	10,505.6	10,169.0	10,144.2	31.2	34.5	-67.62	0.1	-522.0	748.1	690.1	58.02	12.892		
10,775.0	10,512.9	10,169.0	10,144.2	31.2	34.5	-64.99	0.1	-522.0	765.4	707.3	58.11	13.172		
10,800.0	10,518.9	10,169.0	10,144.2	31.2	34.5	-62.40	0.1	-522.0	782.7	724.5	58.22	13.444		
10,825.0	10,523.6	10,169.0	10,144.2	31.3	34.5	-59.88	0.1	-522.0	800.0	741.7	58.37	13.707		
10,830.0	10,524.4	10,169.0	10,144.2	31.3	34.5	-59.38	0.1	-522.0	803.5	745.1	58.40	13.759		
10,850.0	10,527.0	10,169.0	10,144.2	31.3	34.5	-57.44	0.1	-522.0	817.3	758.8	58.54	13.962		
10,875.0	10,529.2	10,169.0	10,144.2	31.3	34.5	-55.09	0.1	-522.0	834.4	775.7	58.73	14.207		
10,900.0	10,530.0	10,169.0	10,144.2	31.3	34.5	-52.84	0.1	-522.0	851.4	792.5	58.95	14.444		
10,903.2	10,530.0	10,169.0	10,144.2	31.3	34.5	-52.56	0.1	-522.0	853.6	794.6	58.97	14.474		
10,925.0	10,530.0	10,169.0	10,144.2	31.4	34.5	-52.31	0.1	-522.0	868.5	809.3	59.17	14.678		
11,000.0	10,530.0	10,169.0	10,144.2	31.4	34.5	-51.34	0.1	-522.0	922.6	862.8	59.80	15.428		
11,020.0	10,530.0	10,169.0	10,144.2	31.5	34.5	-51.05	0.1	-522.0	937.7	877.7	59.96	15.640		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program:	100-Standard Keeper 104, 827-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset		Semi Major Axis		Offset Wellbore Centre				Distance				Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,057.1	10,530.0	10,169.0	10,144.2	31.5	34.5	-50.48	0.1	-522.0	966.3	906.1	60.23	16.043		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.47	-0.5	-60.1	60.1				
95.0	95.0	92.2	92.2	3.0	3.0	-91.19	-1.2	-59.9	59.9	53.9	6.00	9.991	
100.0	100.0	97.2	97.2	3.0	3.0	-91.27	-1.3	-59.9	59.9	53.9	6.00	9.989	
190.0	190.0	187.1	187.1	3.0	3.0	-92.82	-2.9	-59.6	59.7	53.7	6.00	9.946	
200.0	200.0	197.1	197.1	3.0	3.0	-92.99	-3.1	-59.6	59.7	53.7	6.00	9.943	
220.6	220.6	217.6	217.6	3.0	3.0	-93.33	-3.5	-59.6	59.7	53.7	6.00	9.938	
285.0	285.0	281.9	281.9	3.0	3.0	-93.77	-3.9	-59.6	59.8	53.8	6.01	9.948	
300.0	300.0	296.9	296.9	3.0	3.0	-93.79	-4.0	-59.7	59.8	53.8	6.01	9.951	
380.0	380.0	377.0	376.9	3.0	3.0	-93.80	-4.0	-59.8	59.9	53.9	6.02	9.952	
400.0	400.0	397.1	397.1	3.0	3.0	-93.80	-4.0	-59.7	59.9	53.9	6.02	9.947	
475.0	475.0	472.4	472.4	3.0	3.0	-93.82	-4.0	-59.4	59.5	53.5	6.03	9.872	
500.0	500.0	497.5	497.4	3.1	3.0	-93.84	-4.0	-59.2	59.3	53.3	6.03	9.840	
570.0	570.0	567.5	567.4	3.1	3.0	-94.06	-4.2	-58.7	58.8	52.8	6.04	9.736	
600.0	600.0	597.5	597.4	3.1	3.0	-94.26	-4.4	-58.4	58.6	52.6	6.05	9.690	
665.0	665.0	662.2	662.2	3.1	3.1	-94.72	-4.8	-58.1	58.3	52.2	6.06	9.615	
700.0	700.0	697.2	697.1	3.1	3.1	-95.02	-5.1	-58.0	58.2	52.1	6.07	9.589	
744.1	744.1	741.1	741.1	3.1	3.1	-95.41	-5.5	-57.9	58.1	52.0	6.08	9.563	
760.0	760.0	757.0	756.9	3.1	3.1	-95.56	-5.6	-57.9	58.1	52.1	6.08	9.559	
800.0	800.0	797.0	797.0	3.2	3.1	-95.78	-5.9	-57.9	58.2	52.1	6.09	9.553	
855.0	855.0	852.3	852.3	3.2	3.1	-95.54	-5.6	-57.8	58.1	52.0	6.10	9.515	
900.0	900.0	897.3	897.3	3.2	3.1	-95.28	-5.3	-57.6	57.8	51.7	6.12	9.454	
950.0	950.0	947.3	947.2	3.2	3.1	-94.89	-4.9	-57.4	57.6	51.5	6.13	9.392	
1,000.0	1,000.0	997.2	997.2	3.2	3.1	-94.46	-4.5	-57.3	57.4	51.3	6.15	9.340	
1,045.0	1,045.0	1,042.2	1,042.1	3.3	3.1	-94.08	-4.1	-57.2	57.3	51.2	6.16	9.299	
1,100.0	1,100.0	1,097.2	1,097.2	3.3	3.1	-93.45	-3.4	-57.1	57.2	51.0	6.18	9.246	
1,140.0	1,140.0	1,137.2	1,137.1	3.3	3.1	-92.89	-2.9	-57.0	57.1	50.9	6.20	9.206	
1,200.0	1,200.0	1,197.1	1,197.1	3.4	3.1	-91.93	-1.9	-56.9	56.9	50.7	6.22	9.154	
1,235.0	1,235.0	1,232.1	1,232.1	3.4	3.1	-91.34	-1.3	-56.9	56.9	50.6	6.23	9.127	
1,271.1	1,271.1	1,268.2	1,268.1	3.4	3.1	-90.70	-0.7	-56.8	56.9	50.6	6.25	9.103	
1,300.0	1,300.0	1,297.0	1,296.9	3.4	3.1	-90.16	-0.2	-56.9	56.9	50.6	6.26	9.090	
1,330.0	1,330.0	1,327.0	1,326.9	3.4	3.1	-89.62	0.4	-56.9	56.9	50.6	6.27	9.081	
1,400.0	1,400.0	1,396.8	1,396.7	3.5	3.2	-88.25	1.7	-57.1	57.1	50.8	6.29	9.070	
1,425.0	1,425.0	1,421.6	1,421.5	3.5	3.2	-87.73	2.3	-57.2	57.2	50.9	6.30	9.080	
1,500.0	1,500.0	1,496.3	1,496.1	3.5	3.2	-86.32	3.7	-58.0	58.1	51.8	6.33	9.176	
1,520.0	1,520.0	1,516.2	1,516.1	3.6	3.2	-85.99	4.1	-58.3	58.4	52.1	6.34	9.211	
1,600.0	1,600.0	1,596.1	1,596.0	3.6	3.2	-84.74	5.5	-59.5	59.7	53.3	6.38	9.367	
1,615.0	1,615.0	1,611.1	1,611.0	3.6	3.2	-84.52	5.7	-59.7	60.0	53.6	6.38	9.397	
1,700.0	1,700.0	1,696.4	1,696.2	3.7	3.2	-83.36	7.1	-60.9	61.4	54.9	6.43	9.549	
1,710.0	1,710.0	1,706.6	1,706.4	3.7	3.2	-83.26	7.2	-61.0	61.5	55.0	6.43	9.559	
1,800.0	1,800.0	1,797.5	1,797.4	3.8	3.3	-82.87	7.6	-60.8	61.2	54.8	6.48	9.452	
1,805.0	1,805.0	1,802.5	1,802.4	3.8	3.3	-82.85	7.6	-60.7	61.2	54.7	6.48	9.444	
1,900.0	1,900.0	1,897.7	1,897.5	3.9	3.3	-82.78	7.6	-60.0	60.5	54.0	6.54	9.257	
1,995.0	1,995.0	1,992.7	1,992.5	3.9	3.3	-82.74	7.5	-59.2	59.7	53.1	6.60	9.046	
2,000.0	2,000.0	1,997.7	1,997.5	3.9	3.3	-82.75	7.5	-59.2	59.7	53.1	6.60	9.034	
2,090.0	2,090.0	2,087.6	2,087.4	4.1	3.4	-69.18	7.3	-58.5	58.4	51.8	6.66	8.774	
2,100.0	2,100.0	2,097.6	2,097.4	4.2	3.4	-69.51	7.3	-58.4	58.2	51.6	6.66	8.737	
2,185.0	2,184.9	2,182.5	2,182.4	4.7	3.4	-73.83	7.0	-57.7	56.2	49.5	6.73	8.349	
2,200.0	2,199.8	2,197.5	2,197.3	4.8	3.4	-74.88	6.9	-57.6	55.8	49.1	6.75	8.272	
2,250.0	2,249.7	2,247.3	2,247.1	4.9	3.4	-79.01	6.8	-57.2	54.5	47.7	6.82	7.994	
2,280.0	2,279.6	2,277.1	2,276.9	5.0	3.5	-81.82	6.7	-57.0	53.8	47.0	6.88	7.830	
2,300.0	2,299.5	2,297.0	2,296.8	5.0	3.5	-83.73	6.7	-56.8	53.5	46.6	6.92	7.728	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,375.0	2,374.2	2,371.6	2,371.4	5.1	3.5	-91.04	6.5	-56.5	52.9	45.7	7.16	7.385		
2,386.4	2,385.6	2,382.9	2,382.8	5.1	3.5	-92.17	6.4	-56.4	52.9	45.7	7.20	7.340		
2,400.0	2,399.1	2,396.5	2,396.3	5.1	3.5	-93.51	6.4	-56.4	52.9	45.6	7.26	7.289		
2,470.0	2,468.8	2,466.1	2,465.9	5.2	3.5	-100.45	6.0	-56.1	53.5	45.9	7.57	7.072		
2,500.0	2,498.7	2,496.0	2,495.8	5.3	3.6	-103.41	5.8	-55.9	54.0	46.3	7.71	7.006		
2,535.0	2,533.6	2,530.9	2,530.7	5.3	3.6	-106.77	5.7	-55.8	54.7	46.9	7.86	6.964		
2,565.0	2,563.5	2,560.7	2,560.5	5.3	3.6	-102.85	5.5	-55.6	55.4	47.4	8.00	6.918		
2,600.0	2,598.4	2,595.6	2,595.4	5.4	3.6	-97.76	5.3	-55.4	55.9	47.7	8.16	6.841		
2,660.0	2,658.2	2,655.4	2,655.2	5.6	3.6	-88.75	5.0	-55.1	56.1	47.5	8.61	6.515		
2,700.0	2,698.0	2,695.2	2,695.0	5.8	3.7	-83.43	4.8	-55.0	55.9	47.0	8.93	6.262		
2,755.0	2,752.8	2,749.8	2,749.6	6.1	3.7	-78.18	4.3	-54.5	55.1	45.8	9.37	5.886		
2,800.0	2,797.6	2,794.5	2,794.3	6.4	3.7	-75.90	3.8	-54.0	54.3	44.6	9.75	5.571		
2,850.0	2,847.3	2,844.1	2,843.8	6.6	3.7	-75.50	3.0	-53.4	53.3	43.3	10.06	5.302		
2,900.0	2,896.9	2,893.5	2,893.2	6.9	3.8	-77.26	2.2	-52.8	52.4	42.0	10.39	5.044		
2,945.0	2,941.5	2,937.8	2,937.6	7.0	3.8	-80.63	1.3	-52.0	51.9	41.3	10.59	4.902		
2,959.5	2,955.8	2,952.1	2,951.8	7.1	3.8	-82.03	1.0	-51.7	51.9	41.2	10.67	4.862 CC, ES		
3,000.0	2,995.9	2,991.8	2,991.5	7.2	3.8	-86.85	0.0	-50.6	52.2	41.4	10.87	4.806		
3,040.0	3,035.4	3,031.0	3,030.7	7.4	3.9	-92.43	-1.1	-49.4	53.4	42.4	11.00	4.853		
3,100.0	3,094.4	3,089.7	3,089.3	7.5	3.9	-101.44	-2.7	-47.5	56.8	45.6	11.18	5.079		
3,135.0	3,128.8	3,123.8	3,123.4	7.6	3.9	-106.71	-3.6	-46.4	59.8	48.6	11.21	5.339		
3,144.0	3,137.6	3,132.6	3,132.2	7.6	3.9	-108.03	-3.9	-46.1	60.7	49.5	11.21	5.417		
3,200.0	3,192.5	3,187.1	3,186.6	7.7	4.0	-117.58	-5.4	-44.4	67.5	56.3	11.21	6.024		
3,230.0	3,221.9	3,216.2	3,215.8	7.8	4.0	-121.94	-6.2	-43.4	71.8	60.6	11.21	6.407		
3,300.0	3,290.5	3,284.8	3,284.3	8.0	4.0	-130.29	-8.1	-41.2	83.2	71.9	11.25	7.392		
3,325.0	3,315.0	3,309.6	3,309.0	8.0	4.1	-132.76	-8.7	-40.5	87.4	76.2	11.29	7.747		
3,400.0	3,388.5	3,387.1	3,386.5	8.2	4.1	-138.74	-10.3	-40.2	99.3	87.9	11.43	8.689		
3,420.0	3,408.1	3,407.4	3,406.8	8.2	4.1	-139.97	-10.6	-40.7	102.1	90.6	11.47	8.902		
3,500.0	3,486.5	3,486.8	3,486.2	8.4	4.1	-144.18	-11.5	-43.1	113.0	101.4	11.62	9.731		
3,515.0	3,501.2	3,501.7	3,501.1	8.5	4.1	-144.89	-11.7	-43.6	115.1	103.5	11.65	9.884		
3,600.0	3,584.4	3,585.6	3,584.9	8.7	4.1	-148.38	-12.6	-46.3	127.2	115.3	11.84	10.744		
3,610.0	3,594.2	3,595.4	3,594.7	8.7	4.1	-148.74	-12.7	-46.6	128.6	116.8	11.86	10.844		
3,700.0	3,682.4	3,684.0	3,683.2	9.0	4.1	-151.66	-13.9	-49.5	141.9	129.8	12.09	11.738		
3,705.0	3,687.3	3,688.9	3,688.1	9.0	4.1	-151.80	-13.9	-49.6	142.7	130.6	12.10	11.787		
3,800.0	3,780.4	3,789.0	3,788.2	9.2	4.2	-154.58	-14.7	-53.5	156.4	144.0	12.38	12.628		
3,895.0	3,873.5	3,897.5	3,895.5	9.5	4.2	-159.63	-6.3	-66.2	161.2	148.6	12.63	12.762		
3,900.0	3,878.4	3,902.4	3,900.4	9.5	4.2	-159.89	-5.8	-66.9	161.4	148.7	12.65	12.762		
3,990.0	3,966.6	3,991.8	3,988.4	9.8	4.2	-164.53	3.6	-79.4	164.8	152.0	12.88	12.798		
4,000.0	3,976.4	4,001.8	3,998.2	9.8	4.2	-165.04	4.6	-80.8	165.3	152.4	12.91	12.805		
4,085.0	4,059.7	4,084.8	4,080.0	10.1	4.2	-169.11	13.3	-92.3	169.7	156.5	13.15	12.903		
4,100.0	4,074.4	4,099.5	4,094.5	10.1	4.2	-169.79	14.8	-94.3	170.6	157.4	13.19	12.928		
4,180.0	4,152.8	4,178.6	4,172.4	10.4	4.2	-173.31	22.7	-105.0	175.9	162.4	13.44	13.083		
4,200.0	4,172.4	4,198.0	4,191.6	10.4	4.2	-174.14	24.6	-107.6	177.3	163.8	13.51	13.128		
4,275.0	4,245.9	4,272.2	4,264.7	10.7	4.3	-177.17	31.9	-117.5	183.1	169.4	13.76	13.309		
4,300.0	4,270.4	4,296.6	4,288.8	10.7	4.3	-178.11	34.3	-120.7	185.2	171.3	13.84	13.376		
4,370.0	4,339.0	4,364.9	4,356.2	11.0	4.3	179.46	40.6	-129.4	191.5	177.4	14.09	13.591		
4,400.0	4,368.4	4,394.3	4,385.3	11.1	4.3	178.50	43.3	-133.1	194.4	180.2	14.20	13.691		
4,465.0	4,432.1	4,458.1	4,448.3	11.3	4.3	176.62	48.7	-140.8	201.0	186.6	14.44	13.922		
4,500.0	4,466.4	4,493.0	4,482.9	11.4	4.3	175.66	51.6	-144.9	204.7	190.1	14.57	14.046		
4,560.0	4,525.2	4,552.5	4,541.7	11.6	4.4	174.10	56.5	-152.1	211.0	196.2	14.80	14.256		
4,600.0	4,564.4	4,591.9	4,580.8	11.7	4.4	173.13	59.7	-156.9	215.3	200.3	14.95	14.397		
4,655.0	4,618.3	4,646.3	4,634.6	11.9	4.4	171.89	64.0	-163.3	221.3	206.2	15.17	14.591		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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: Reference		100-Standard Keeper 104, 10226-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,700.0	4,662.4	4,693.0	4,680.8	12.0	4.5	170.89	67.6	-169.0	226.2	210.9	15.35	14.736		
4,750.0	4,711.4	4,751.2	4,738.3	12.2	4.5	169.79	71.2	-177.4	230.3	214.8	15.57	14.789		
4,800.0	4,760.4	4,801.6	4,788.0	12.4	4.5	168.94	73.7	-185.5	233.6	217.8	15.78	14.807		
4,845.0	4,804.4	4,846.0	4,831.8	12.5	4.6	168.22	75.9	-192.6	236.6	220.6	15.96	14.826		
4,900.0	4,858.3	4,900.3	4,885.3	12.7	4.6	167.36	78.7	-201.1	240.4	224.2	16.18	14.857		
4,940.0	4,897.5	4,939.4	4,923.8	12.8	4.6	166.78	80.6	-207.2	243.3	227.0	16.34	14.887		
5,000.0	4,956.3	5,002.0	4,985.7	13.1	4.7	165.99	83.2	-216.8	247.7	231.1	16.60	14.918		
5,035.0	4,990.6	5,039.6	5,022.8	13.2	4.7	165.71	83.8	-222.7	249.7	232.9	16.75	14.902		
5,100.0	5,054.3	5,103.5	5,085.9	13.4	4.7	165.43	84.0	-232.7	253.2	236.2	17.02	14.875		
5,130.0	5,083.7	5,133.1	5,115.2	13.5	4.8	165.33	84.0	-237.1	254.9	237.8	17.14	14.868		
5,200.0	5,152.3	5,201.7	5,183.0	13.7	4.8	165.15	84.0	-247.2	259.2	241.8	17.43	14.868		
5,225.0	5,176.8	5,226.2	5,207.3	13.8	4.8	165.10	84.0	-250.7	260.8	243.3	17.54	14.872		
5,300.0	5,250.3	5,300.7	5,281.1	14.1	4.9	164.95	84.0	-261.2	265.8	247.9	17.85	14.886		
5,320.0	5,269.9	5,320.5	5,300.6	14.2	4.9	164.91	84.0	-264.0	267.1	249.2	17.94	14.890		
5,400.0	5,348.3	5,400.0	5,379.4	14.4	5.0	164.73	84.1	-275.2	272.5	254.2	18.28	14.909		
5,415.0	5,363.0	5,415.1	5,394.3	14.5	5.0	164.70	84.1	-277.3	273.5	255.2	18.34	14.912		
5,500.0	5,446.3	5,500.4	5,478.8	14.8	5.0	164.57	84.0	-289.2	279.2	260.5	18.71	14.924		
5,510.0	5,456.1	5,510.2	5,488.5	14.8	5.0	164.56	84.0	-290.6	279.9	261.1	18.75	14.925		
5,600.0	5,544.3	5,598.7	5,576.2	15.1	5.1	164.51	83.6	-302.6	286.1	266.9	19.14	14.949		
5,605.0	5,549.2	5,603.7	5,581.1	15.2	5.1	164.50	83.6	-303.3	286.4	267.3	19.16	14.951		
5,700.0	5,642.3	5,698.4	5,674.9	15.5	5.2	164.52	83.0	-315.8	293.2	273.7	19.57	14.983		
5,795.0	5,735.4	5,792.0	5,767.8	15.8	5.3	164.56	82.3	-328.0	300.1	280.1	19.98	15.020		
5,800.0	5,740.3	5,796.9	5,772.7	15.9	5.3	164.57	82.3	-328.6	300.5	280.5	20.00	15.022		
5,890.0	5,828.5	5,884.7	5,859.8	16.2	5.3	164.72	81.3	-339.4	307.6	287.2	20.39	15.082		
5,900.0	5,838.3	5,894.8	5,869.8	16.2	5.4	164.74	81.2	-340.6	308.4	288.0	20.44	15.090		
5,985.0	5,921.6	5,978.9	5,953.3	16.5	5.4	164.95	80.1	-350.4	315.4	294.6	20.81	15.154		
6,000.0	5,936.3	5,993.5	5,967.8	16.6	5.4	164.99	79.9	-352.1	316.6	295.8	20.88	15.168		
6,080.0	6,014.7	6,070.3	6,044.1	16.9	5.5	165.22	78.8	-360.5	323.7	302.5	21.22	15.256		
6,100.0	6,034.2	6,089.7	6,063.5	16.9	5.5	165.28	78.5	-362.5	325.6	304.3	21.31	15.282		
6,175.0	6,107.7	6,163.9	6,137.3	17.2	5.6	165.56	77.4	-370.0	332.9	311.2	21.64	15.380		
6,200.0	6,132.2	6,188.6	6,161.8	17.3	5.6	165.66	77.0	-372.4	335.3	313.5	21.75	15.413		
6,270.0	6,200.8	6,257.5	6,230.3	17.6	5.6	165.92	75.8	-379.3	342.1	320.0	22.06	15.505		
6,300.0	6,230.2	6,286.3	6,259.1	17.7	5.7	166.03	75.4	-382.0	345.1	322.9	22.19	15.551		
6,365.0	6,293.9	6,350.0	6,322.4	17.9	5.7	166.14	75.2	-388.3	351.9	329.4	22.48	15.649		
6,400.0	6,328.2	6,383.5	6,355.8	18.0	5.7	166.13	75.4	-391.6	355.6	333.0	22.64	15.710		
6,460.0	6,387.0	6,441.8	6,413.8	18.3	5.8	166.13	76.0	-397.3	362.2	339.3	22.90	15.816		
6,500.0	6,426.2	6,481.0	6,452.8	18.4	5.8	166.14	76.3	-400.9	366.8	343.7	23.08	15.889		
6,555.0	6,480.1	6,534.6	6,506.2	18.6	5.9	166.17	76.7	-405.8	373.1	349.8	23.33	15.994		
6,600.0	6,524.2	6,578.7	6,550.1	18.8	5.9	166.20	77.1	-409.6	378.4	354.9	23.53	16.082		
6,650.0	6,573.2	6,628.8	6,600.1	19.0	6.0	166.24	77.4	-414.0	384.3	360.5	23.76	16.173		
6,700.0	6,622.2	6,678.4	6,649.4	19.1	6.0	166.31	77.5	-418.3	390.1	366.1	23.99	16.262		
6,745.0	6,666.3	6,722.6	6,693.5	19.3	6.0	166.39	77.5	-422.1	395.4	371.2	24.19	16.343		
6,800.0	6,720.2	6,776.5	6,747.2	19.5	6.1	166.48	77.5	-426.5	402.0	377.6	24.44	16.446		
6,840.0	6,759.4	6,815.6	6,786.1	19.7	6.1	166.55	77.6	-429.7	406.8	382.2	24.62	16.521		
6,900.0	6,818.2	6,874.4	6,844.8	19.9	6.2	166.69	77.5	-434.3	414.2	389.3	24.90	16.636		
6,935.0	6,852.5	6,908.5	6,878.8	20.0	6.2	166.77	77.4	-436.9	418.6	393.5	25.06	16.704		
7,000.0	6,916.2	6,972.2	6,942.3	20.2	6.2	166.93	77.2	-441.6	426.7	401.4	25.35	16.831		
7,030.0	6,945.6	7,001.2	6,971.2	20.4	6.3	167.01	77.1	-443.7	430.6	405.1	25.49	16.892		
7,100.0	7,014.2	7,070.5	7,040.4	20.6	6.3	167.19	76.8	-448.6	439.6	413.8	25.81	17.029		
7,125.0	7,038.7	7,095.2	7,065.0	20.7	6.3	167.27	76.6	-450.3	442.8	416.9	25.93	17.077		
7,200.0	7,112.2	7,167.9	7,137.6	21.0	6.4	167.49	76.1	-455.2	452.7	426.4	26.27	17.230		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
7,220.0	7,131.8	7,187.9	7,157.5	21.1	6.4	167.55	75.9	-456.5	455.3	428.9	26.37	17.269
7,300.0	7,210.2	7,266.5	7,235.9	21.4	6.5	167.80	75.3	-461.6	466.0	439.2	26.74	17.428
7,315.0	7,224.9	7,281.1	7,250.5	21.4	6.5	167.84	75.2	-462.5	468.0	441.2	26.81	17.458
7,400.0	7,308.1	7,366.5	7,335.7	21.7	6.6	168.09	74.6	-467.9	479.4	452.2	27.21	17.620
7,410.0	7,317.9	7,376.8	7,346.0	21.8	6.6	168.12	74.5	-468.6	480.8	453.5	27.26	17.637
7,500.0	7,406.1	7,468.6	7,437.6	22.1	6.7	168.28	74.4	-475.3	492.3	464.6	27.69	17.778
7,505.0	7,411.0	7,473.6	7,442.6	22.1	6.7	168.29	74.3	-475.6	492.9	465.2	27.72	17.786
7,600.0	7,504.1	7,565.6	7,534.3	22.5	6.8	168.45	74.1	-482.3	505.1	476.9	28.15	17.940
7,648.7	7,551.8	7,612.0	7,580.6	22.7	6.8	168.54	73.9	-485.5	511.5	483.1	28.37	18.027
7,695.0	7,597.3	7,656.6	7,625.1	22.8	6.9	168.65	73.8	-488.3	517.4	488.8	28.59	18.101
7,700.0	7,602.2	7,661.4	7,629.9	22.8	6.9	168.66	73.8	-488.7	518.0	489.4	28.61	18.107
7,790.0	7,691.0	7,750.2	7,718.6	23.2	6.9	168.77	73.9	-494.3	527.4	498.4	29.08	18.141
7,800.0	7,700.8	7,760.2	7,728.4	23.2	7.0	168.78	73.9	-495.0	528.3	499.2	29.13	18.139
7,885.0	7,785.1	7,840.6	7,808.8	23.6	7.0	168.77	74.4	-500.0	534.7	505.1	29.58	18.077
7,900.0	7,800.0	7,854.4	7,822.5	23.6	7.0	168.76	74.6	-500.8	535.7	506.0	29.66	18.062
7,980.0	7,879.6	7,931.9	7,899.8	23.9	7.1	168.64	75.9	-505.0	539.9	509.8	30.08	17.948
8,000.0	7,899.5	7,952.0	7,920.0	24.0	7.1	168.60	76.3	-506.1	540.6	510.4	30.19	17.908
8,075.0	7,974.4	8,028.2	7,996.0	24.3	7.2	168.42	77.4	-510.3	542.0	511.4	30.59	17.719
8,100.0	7,999.3	8,054.9	8,022.7	24.4	7.2	168.36	77.8	-511.8	542.0	511.3	30.73	17.638
8,170.0	8,069.3	8,132.7	8,100.4	24.7	7.3	168.12	78.6	-516.8	540.2	509.1	31.13	17.356
8,200.0	8,099.3	8,163.2	8,130.7	24.8	7.3	167.99	79.0	-519.1	538.7	507.4	31.28	17.220
8,223.7	8,123.0	8,186.6	8,154.0	24.9	7.4	67.16	79.4	-520.9	537.3	505.9	31.38	17.122
8,265.0	8,164.3	8,226.8	8,194.1	25.0	7.4	66.95	80.2	-523.9	534.7	503.2	31.54	16.954
8,300.0	8,199.3	8,261.3	8,228.6	25.1	7.4	66.76	81.0	-526.6	532.6	500.9	31.68	16.812
8,360.0	8,259.3	8,322.1	8,289.2	25.3	7.5	66.44	82.2	-531.1	528.9	497.0	31.93	16.567
8,400.0	8,299.3	8,366.7	8,333.6	25.4	7.6	66.27	82.5	-534.5	526.3	494.2	32.11	16.389
8,455.0	8,354.3	8,425.9	8,392.6	25.6	7.6	66.13	81.8	-539.1	522.1	489.7	32.36	16.133
8,500.0	8,399.3	8,470.1	8,436.7	25.7	7.7	66.04	81.2	-542.6	518.5	486.0	32.55	15.932
8,550.0	8,449.3	8,520.3	8,486.7	25.9	7.7	65.95	80.4	-546.5	514.7	481.9	32.76	15.711
8,600.0	8,499.3	8,568.0	8,534.3	26.0	7.8	65.86	79.6	-550.1	510.8	477.9	32.96	15.498
8,645.0	8,544.3	8,611.0	8,577.2	26.1	7.8	65.80	78.8	-553.2	507.6	474.4	33.14	15.314
8,700.0	8,599.3	8,662.2	8,628.3	26.3	7.9	65.75	77.8	-556.5	503.9	470.5	33.36	15.104
8,740.0	8,639.3	8,700.0	8,666.0	26.4	7.9	65.74	76.9	-558.7	501.4	467.9	33.52	14.959
8,800.0	8,699.3	8,761.0	8,726.9	26.6	8.0	65.77	75.2	-561.9	497.8	464.0	33.78	14.736
8,835.0	8,734.3	8,796.7	8,762.5	26.7	8.0	65.79	74.1	-563.9	495.7	461.7	33.94	14.606
8,900.0	8,799.3	8,857.0	8,822.6	26.9	8.1	65.85	72.1	-567.0	491.7	457.5	34.19	14.381
8,930.0	8,829.3	8,880.7	8,846.3	27.0	8.1	65.87	71.5	-567.9	490.3	456.0	34.29	14.297
9,000.0	8,899.3	8,942.0	8,907.6	27.2	8.2	65.93	70.3	-569.4	488.2	453.6	34.56	14.126
9,025.0	8,924.3	8,965.3	8,930.9	27.3	8.2	65.95	69.9	-569.8	487.6	453.0	34.66	14.069
9,100.0	8,999.3	9,039.8	9,005.4	27.5	8.3	66.03	68.8	-570.8	486.3	451.3	34.98	13.903
9,120.0	9,019.3	9,060.2	9,025.8	27.6	8.3	66.04	68.5	-571.1	485.9	450.8	35.07	13.857
9,200.0	9,099.3	9,140.8	9,106.4	27.8	8.4	66.10	67.4	-572.4	484.3	448.9	35.41	13.675
9,215.0	9,114.3	9,155.7	9,121.2	27.9	8.4	66.10	67.3	-572.6	484.0	448.5	35.48	13.641
9,300.0	9,199.3	9,237.8	9,203.4	28.2	8.5	66.15	66.3	-573.8	482.5	446.6	35.84	13.463
9,310.0	9,209.3	9,247.5	9,213.0	28.2	8.5	66.16	66.2	-573.9	482.3	446.4	35.88	13.443
9,400.0	9,299.3	9,336.9	9,302.5	28.5	8.6	66.25	65.0	-574.7	481.2	444.9	36.26	13.269
9,405.0	9,304.3	9,342.0	9,307.5	28.5	8.6	66.25	65.0	-574.7	481.1	444.8	36.28	13.260
9,500.0	9,399.3	9,435.0	9,400.6	28.8	8.6	66.37	63.7	-575.2	480.1	443.4	36.68	13.090
9,595.0	9,494.3	9,527.2	9,492.7	29.1	8.7	66.44	62.9	-575.4	479.6	442.5	37.06	12.940
9,600.0	9,499.3	9,532.3	9,497.8	29.1	8.7	66.45	62.9	-575.4	479.6	442.5	37.08	12.932
9,690.0	9,589.3	9,622.6	9,588.1	29.4	8.8	66.44	62.8	-575.7	479.3	441.8	37.47	12.792

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
9,700.0	9,599.3	9,632.7	9,598.2	29.4	8.8	66.43	62.9	-575.8	479.2	441.7	37.51	12.777		
9,785.0	9,684.3	9,719.5	9,685.0	29.7	8.9	66.31	63.6	-576.6	478.8	440.9	37.86	12.646		
9,800.0	9,699.3	9,734.5	9,700.1	29.7	8.9	66.29	63.7	-576.8	478.7	440.7	37.92	12.622		
9,880.0	9,779.3	9,813.8	9,779.3	30.0	9.0	66.18	64.3	-577.7	478.1	439.8	38.25	12.499		
9,900.0	9,799.3	9,833.8	9,799.3	30.0	9.0	66.16	64.4	-577.9	478.0	439.6	38.33	12.468		
9,975.0	9,874.3	9,908.4	9,873.9	30.3	9.1	66.09	64.8	-578.5	477.5	438.9	38.64	12.358		
10,000.0	9,899.3	9,933.0	9,898.5	30.4	9.1	66.06	64.9	-578.7	477.4	438.7	38.75	12.322		
10,070.0	9,969.3	10,002.4	9,967.9	30.6	9.1	66.00	65.3	-579.2	477.1	438.1	39.03	12.223		
10,100.0	9,999.3	10,032.8	9,998.3	30.7	9.2	65.97	65.5	-579.4	477.0	437.8	39.16	12.181		
10,153.2	10,052.5	10,086.0	10,051.5	30.8	9.2	65.92	65.8	-579.8	476.8	437.5	39.29	12.135		
10,159.2	10,058.5	10,092.0	10,057.5	30.8	9.2	-110.64	65.8	-579.8	476.8	437.5	39.29	12.133		
10,165.0	10,064.3	10,098.0	10,063.5	30.8	9.2	-110.66	65.9	-579.9	476.8	437.5	39.30	12.132		
10,175.0	10,074.3	10,108.1	10,073.6	30.8	9.2	-110.71	66.0	-580.0	476.8	437.5	39.31	12.131		
10,200.0	10,099.2	10,133.2	10,098.7	30.8	9.3	-110.90	66.3	-580.2	477.4	438.0	39.32	12.140		
10,225.0	10,124.0	10,158.0	10,123.5	30.8	9.3	-111.17	66.5	-580.5	478.3	439.0	39.33	12.162		
10,250.0	10,148.6	10,182.7	10,148.2	30.8	9.3	-111.50	66.5	-580.7	479.8	440.5	39.34	12.197		
10,260.0	10,158.4	10,192.5	10,158.0	30.8	9.3	-111.65	66.5	-580.7	480.6	441.2	39.34	12.215		
10,275.0	10,173.0	10,207.1	10,172.6	30.8	9.3	-111.89	66.5	-580.8	481.8	442.5	39.34	12.247		
10,300.0	10,197.0	10,234.4	10,199.9	30.8	9.3	-112.43	66.3	-580.9	484.4	445.0	39.38	12.300		
10,325.0	10,220.6	10,272.9	10,238.3	30.8	9.3	-113.33	64.4	-581.1	487.0	447.5	39.54	12.317		
10,350.0	10,243.8	10,318.6	10,283.6	30.8	9.5	-114.35	58.4	-581.2	489.4	449.5	39.90	12.265		
10,355.0	10,248.3	10,330.7	10,295.5	30.9	9.6	-114.58	55.9	-581.2	489.8	449.7	40.04	12.233		
10,375.0	10,266.4	10,368.2	10,331.4	30.9	10.0	-115.05	45.2	-580.7	490.9	450.5	40.43	12.143		
10,400.0	10,288.5	10,389.3	10,351.2	30.9	10.2	-115.15	37.9	-580.0	492.7	452.2	40.52	12.161		
10,425.0	10,309.9	10,411.6	10,371.9	30.9	10.4	-115.22	29.8	-578.7	495.3	454.6	40.63	12.191		
10,450.0	10,330.6	10,440.3	10,398.0	30.9	10.6	-115.32	18.1	-576.4	498.3	457.5	40.78	12.219		
10,475.0	10,350.5	10,471.1	10,425.0	30.9	10.8	-115.32	3.7	-573.2	501.7	460.8	40.96	12.250		
10,500.0	10,369.6	10,509.8	10,457.2	31.0	11.1	-115.24	-17.1	-568.1	505.3	464.1	41.22	12.260		
10,525.0	10,387.9	10,565.5	10,499.9	31.0	11.5	-115.01	-52.0	-560.6	508.0	466.4	41.65	12.199		
10,545.0	10,401.8	10,657.0	10,564.8	31.0	11.8	-114.99	-116.1	-554.2	508.5	465.9	42.65	11.922		
10,550.0	10,405.2	10,663.7	10,569.4	31.0	11.8	-115.01	-121.0	-554.1	508.4	465.7	42.70	11.906		
10,575.0	10,421.6	10,836.5	10,666.2	31.0	12.4	-114.53	-262.1	-566.9	504.5	459.9	44.59	11.314		
10,600.0	10,436.9	10,864.7	10,676.8	31.0	12.5	-114.81	-287.9	-570.6	497.5	452.7	44.74	11.119		
10,625.0	10,451.2	10,899.9	10,687.8	31.1	12.6	-114.82	-321.1	-574.6	490.6	445.7	44.89	10.927		
10,640.0	10,459.3	10,916.6	10,692.0	31.1	12.6	-114.86	-337.1	-576.2	486.5	441.6	44.94	10.826		
10,650.0	10,464.4	10,926.6	10,694.4	31.1	12.6	-114.91	-346.8	-577.1	483.9	438.9	44.96	10.762		
10,675.0	10,476.5	10,951.7	10,700.4	31.1	12.6	-115.09	-371.1	-579.5	477.7	432.7	45.02	10.610		
10,700.0	10,487.4	10,980.2	10,706.6	31.1	12.7	-115.23	-398.8	-582.0	471.9	426.8	45.07	10.472		
10,725.0	10,497.1	11,007.2	10,711.6	31.2	12.7	-115.40	-425.3	-584.1	466.5	421.4	45.11	10.342		
10,735.0	10,500.7	11,017.2	10,713.4	31.2	12.7	-115.49	-435.1	-584.9	464.5	419.3	45.13	10.292		
10,750.0	10,505.6	11,032.3	10,715.9	31.2	12.7	-115.64	-449.9	-586.0	461.6	416.4	45.16	10.221		
10,775.0	10,512.9	11,056.8	10,719.9	31.2	12.7	-115.93	-474.1	-587.8	457.2	412.0	45.22	10.111		
10,800.0	10,518.9	11,081.1	10,723.3	31.2	12.8	-116.24	-498.1	-589.3	453.4	408.1	45.29	10.011		
10,825.0	10,523.6	11,105.5	10,726.4	31.3	12.8	-116.57	-522.2	-590.6	450.2	404.9	45.38	9.921		
10,830.0	10,524.4	11,110.4	10,727.0	31.3	12.8	-116.64	-527.0	-590.8	449.7	404.3	45.40	9.904		
10,850.0	10,527.0	11,129.9	10,729.2	31.3	12.8	-116.93	-546.4	-591.7	447.7	402.2	45.49	9.841		
10,875.0	10,529.2	11,151.0	10,731.4	31.3	12.9	-117.29	-567.3	-592.4	445.8	400.1	45.69	9.757		
10,900.0	10,530.0	11,171.6	10,733.1	31.3	12.9	-117.61	-587.9	-592.7	444.7	398.8	45.91	9.687		
10,903.2	10,530.0	11,174.3	10,733.3	31.3	12.9	-117.65	-590.5	-592.7	444.7	398.7	45.94	9.679		
10,925.0	10,530.0	11,192.3	10,734.5	31.4	13.0	-117.83	-608.5	-592.5	444.4	398.3	46.14	9.631		
10,931.9	10,530.0	11,198.0	10,734.8	31.4	13.0	-117.88	-614.2	-592.4	444.4	398.2	46.21	9.617		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
11,000.0	10,530.0	11,266.0	10,736.7	31.4	13.2	-118.09	-682.1	-589.6	445.5	398.6	46.92	9.495
11,020.0	10,530.0	11,288.6	10,736.7	31.5	13.3	-118.05	-704.7	-588.5	445.9	398.8	47.15	9.458
11,057.1	10,530.0	11,326.4	10,736.0	31.5	13.5	-117.90	-742.5	-586.6	446.8	399.3	47.47	9.412
11,100.0	10,530.0	11,363.6	10,735.5	31.6	13.6	-117.73	-779.6	-584.5	448.4	400.8	47.66	9.408
11,115.0	10,530.0	11,376.6	10,735.4	31.6	13.6	-117.68	-792.6	-583.7	449.1	401.4	47.73	9.409
11,200.0	10,530.0	11,459.8	10,736.5	31.7	13.9	-117.54	-875.6	-578.6	453.8	405.6	48.21	9.411
11,210.0	10,530.0	11,470.3	10,736.9	31.7	14.0	-117.55	-886.1	-578.1	454.3	406.0	48.28	9.409
11,300.0	10,530.0	11,578.5	10,740.3	31.9	14.5	-117.80	-994.2	-575.0	457.5	408.4	49.03	9.330
11,305.0	10,530.0	11,584.8	10,740.4	31.9	14.5	-117.81	-1,000.5	-574.9	457.5	408.4	49.07	9.323
11,400.0	10,530.0	11,678.7	10,742.6	32.1	14.9	-118.06	-1,094.3	-574.5	458.4	408.8	49.69	9.227
11,495.0	10,530.0	11,778.9	10,745.2	32.2	15.4	-118.37	-1,194.5	-574.2	459.3	409.0	50.34	9.125
11,500.0	10,530.0	11,786.2	10,745.4	32.3	15.4	-118.39	-1,201.8	-574.2	459.3	408.9	50.39	9.115
11,590.0	10,530.0	11,886.2	10,743.8	32.4	16.0	-118.39	-1,301.8	-576.5	456.2	404.9	51.28	8.896
11,600.0	10,530.0	11,893.2	10,743.7	32.5	16.1	-118.38	-1,308.8	-576.6	455.9	404.6	51.37	8.876
11,631.2	10,530.0	11,915.0	10,743.5	32.5	16.3	-118.38	-1,330.6	-576.6	455.6	404.0	51.64	8.823
11,685.0	10,530.0	11,954.0	10,744.0	32.7	16.6	-118.39	-1,369.6	-575.8	456.5	404.4	52.09	8.764
11,700.0	10,530.0	11,967.6	10,744.3	32.7	16.7	-118.40	-1,383.2	-575.3	457.0	404.8	52.22	8.752
11,780.0	10,530.0	12,040.6	10,747.1	32.9	17.2	-118.59	-1,456.0	-572.8	460.5	407.6	52.92	8.702
11,800.0	10,530.0	12,062.5	10,748.1	32.9	17.3	-118.66	-1,477.9	-572.0	461.5	408.4	53.09	8.693
11,875.0	10,530.0	12,142.9	10,751.3	33.1	17.7	-118.89	-1,558.2	-569.6	464.4	410.7	53.71	8.646
11,900.0	10,530.0	12,166.7	10,752.1	33.2	17.9	-118.95	-1,582.0	-568.9	465.3	411.4	53.89	8.634
11,970.0	10,530.0	12,233.8	10,754.4	33.4	18.2	-119.09	-1,649.0	-566.7	468.2	413.8	54.41	8.605
12,000.0	10,530.0	12,263.1	10,755.4	33.5	18.4	-119.15	-1,678.3	-565.6	469.5	414.8	54.64	8.593
12,065.0	10,530.0	12,331.5	10,757.8	33.7	18.8	-119.26	-1,746.5	-562.9	472.4	417.2	55.20	8.558
12,100.0	10,530.0	12,375.9	10,758.2	33.8	19.1	-119.24	-1,791.0	-561.5	473.4	417.8	55.59	8.515
12,160.0	10,530.0	12,443.9	10,756.9	34.0	19.5	-119.04	-1,858.9	-559.8	473.8	417.6	56.19	8.432
12,200.0	10,530.0	12,486.5	10,755.4	34.1	19.7	-118.83	-1,901.5	-558.8	473.7	417.1	56.56	8.375
12,223.4	10,530.0	12,507.7	10,754.6	34.2	19.9	-118.72	-1,922.7	-558.2	473.6	416.9	56.74	8.346
12,255.0	10,530.0	12,535.3	10,754.0	34.3	20.0	-118.63	-1,950.3	-557.6	473.7	416.8	56.99	8.313
12,300.0	10,530.0	12,574.7	10,754.2	34.4	20.3	-118.62	-1,989.6	-556.8	474.4	417.0	57.34	8.273
12,350.0	10,530.0	12,621.9	10,755.7	34.6	20.6	-118.75	-2,036.8	-556.0	475.6	417.8	57.80	8.229
12,400.0	10,530.0	12,669.9	10,758.0	34.8	20.8	-118.98	-2,084.7	-555.4	477.0	418.7	58.27	8.187
12,445.0	10,530.0	12,724.5	10,760.2	34.9	21.2	-119.21	-2,139.3	-555.0	478.0	419.1	58.83	8.125
12,500.0	10,530.0	12,790.0	10,760.4	35.1	21.6	-119.24	-2,204.8	-554.8	477.9	418.4	59.47	8.035
12,540.0	10,530.0	12,835.7	10,759.4	35.3	21.9	-119.16	-2,250.5	-554.9	477.2	417.2	59.92	7.963
12,600.0	10,530.0	12,901.4	10,756.9	35.5	22.3	-118.94	-2,316.1	-555.3	475.3	414.8	60.53	7.853
12,635.0	10,530.0	12,939.1	10,754.9	35.6	22.5	-118.77	-2,353.8	-555.6	474.0	413.1	60.89	7.785
12,700.0	10,530.0	13,005.3	10,751.4	35.9	23.0	-118.46	-2,419.8	-556.5	471.2	409.7	61.50	7.662
12,730.0	10,530.0	13,034.0	10,750.0	36.0	23.1	-118.36	-2,448.5	-557.0	469.9	408.1	61.78	7.607
12,800.0	10,530.0	13,098.5	10,747.4	36.3	23.6	-118.15	-2,513.0	-557.8	467.3	404.9	62.40	7.489
12,825.0	10,530.0	13,125.0	10,746.3	36.4	23.7	-118.05	-2,539.4	-557.9	466.7	404.0	62.66	7.448
12,900.0	10,530.0	13,186.1	10,744.9	36.7	24.2	-117.90	-2,600.6	-557.6	465.7	402.4	63.28	7.359
12,909.6	10,530.0	13,194.5	10,744.8	36.7	24.2	-117.89	-2,608.9	-557.6	465.7	402.3	63.37	7.349
12,920.0	10,530.0	13,203.5	10,744.8	36.7	24.3	-117.89	-2,617.9	-557.5	465.7	402.2	63.46	7.338
13,000.0	10,530.0	13,301.6	10,743.1	37.1	24.9	-117.73	-2,716.0	-557.3	464.8	400.3	64.54	7.202
13,015.0	10,530.0	13,315.6	10,742.5	37.1	25.0	-117.68	-2,730.0	-557.4	464.3	399.6	64.69	7.176
13,100.0	10,530.0	13,386.0	10,740.4	37.5	25.5	-117.47	-2,800.4	-557.3	462.7	397.2	65.48	7.066
13,102.7	10,530.0	13,388.2	10,740.4	37.5	25.6	-117.46	-2,802.6	-557.3	462.7	397.2	65.51	7.063
13,110.0	10,530.0	13,396.0	10,740.3	37.6	25.6	-117.44	-2,810.3	-557.2	462.7	397.1	65.60	7.054
13,114.5	10,530.0	13,398.3	10,740.2	37.6	25.6	-117.44	-2,812.7	-557.1	462.7	397.1	65.62	7.051
13,200.0	10,530.0	13,479.5	10,740.4	38.0	26.2	-117.43	-2,893.8	-556.1	463.3	396.8	66.51	6.966

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,205.0	10,530.0	13,484.2	10,740.5	38.0	26.2	-117.44	-2,898.6	-556.0	463.4	396.8	66.57	6.961	
13,300.0	10,530.0	13,572.4	10,743.1	38.4	26.8	-117.68	-2,986.7	-554.8	465.3	397.7	67.52	6.891	
13,395.0	10,530.0	13,680.0	10,746.6	38.8	27.6	-118.07	-3,094.2	-554.1	466.8	398.0	68.77	6.787	
13,400.0	10,530.0	13,686.3	10,746.7	38.9	27.6	-118.08	-3,100.5	-554.1	466.8	397.9	68.85	6.779	
13,490.0	10,530.0	13,784.2	10,747.3	39.3	28.3	-118.29	-3,198.4	-556.1	464.8	394.8	70.02	6.638	
13,500.0	10,530.0	13,792.1	10,747.4	39.3	28.4	-118.33	-3,206.3	-556.3	464.6	394.5	70.12	6.626	
13,532.0	10,530.0	13,817.2	10,748.4	39.5	28.5	-118.48	-3,231.4	-556.9	464.4	393.9	70.43	6.594	
13,585.0	10,530.0	13,862.3	10,751.7	39.7	28.8	-118.91	-3,276.4	-557.8	465.0	394.0	70.98	6.550	
13,600.0	10,530.0	13,878.1	10,752.9	39.8	29.0	-119.06	-3,292.1	-558.1	465.2	394.0	71.19	6.535	
13,680.0	10,530.0	13,965.9	10,757.3	40.2	29.6	-119.62	-3,379.8	-559.0	466.0	393.7	72.30	6.445	
13,700.0	10,530.0	13,990.2	10,757.9	40.3	29.7	-119.71	-3,404.1	-559.3	465.9	393.3	72.60	6.417	
13,775.0	10,530.0	14,074.4	10,758.2	40.7	30.3	-119.89	-3,488.3	-561.2	464.2	390.6	73.60	6.306	
13,800.0	10,530.0	14,100.7	10,758.1	40.8	30.5	-119.94	-3,514.6	-561.9	463.4	389.5	73.91	6.269	
13,870.0	10,530.0	14,167.8	10,758.0	41.1	31.0	-120.07	-3,581.6	-563.8	461.2	386.5	74.69	6.174	
13,900.0	10,530.0	14,195.5	10,758.1	41.3	31.2	-120.14	-3,609.3	-564.5	460.4	385.4	75.01	6.138	
13,965.0	10,530.0	14,253.1	10,758.6	41.6	31.6	-120.26	-3,666.8	-565.4	459.5	383.8	75.69	6.071	
13,984.2	10,530.0	14,269.8	10,758.6	41.7	31.7	-120.28	-3,683.6	-565.3	459.5	383.6	75.89	6.055	
14,000.0	10,530.0	14,283.6	10,758.7	41.8	31.8	-120.28	-3,697.3	-565.2	459.5	383.4	76.04	6.043	
14,060.0	10,530.0	14,344.3	10,758.3	42.1	32.2	-120.19	-3,758.1	-564.1	459.9	383.1	76.78	5.990	
14,100.0	10,530.0	14,387.6	10,757.3	42.3	32.6	-120.06	-3,801.3	-563.3	459.9	382.5	77.31	5.948	
14,155.0	10,530.0	14,442.9	10,755.7	42.6	33.0	-119.84	-3,856.6	-562.4	459.6	381.6	77.96	5.895	
14,200.0	10,530.0	14,488.9	10,754.3	42.9	33.3	-119.66	-3,902.6	-561.5	459.4	380.9	78.51	5.851	
14,250.0	10,530.0	14,547.0	10,752.4	43.1	33.7	-119.44	-3,960.6	-561.1	458.6	379.4	79.21	5.789	
14,300.0	10,530.0	14,596.4	10,750.5	43.4	34.1	-119.28	-4,010.0	-561.4	457.2	377.4	79.81	5.728	
14,345.0	10,530.0	14,634.5	10,749.5	43.6	34.3	-119.18	-4,048.1	-561.2	456.5	376.2	80.27	5.686	
14,369.8	10,530.0	14,655.5	10,749.2	43.8	34.5	-119.14	-4,069.1	-561.0	456.4	375.8	80.52	5.667	
14,400.0	10,530.0	14,686.5	10,748.8	43.9	34.7	-119.08	-4,100.0	-560.6	456.4	375.5	80.91	5.641	
14,440.0	10,530.0	14,730.2	10,748.1	44.2	35.0	-118.99	-4,143.8	-560.2	456.2	374.7	81.46	5.600	
14,500.0	10,530.0	14,793.8	10,746.5	44.5	35.5	-118.83	-4,207.4	-560.0	455.3	373.0	82.24	5.536	
14,535.0	10,530.0	14,830.1	10,745.5	44.7	35.8	-118.73	-4,243.7	-559.9	454.6	371.9	82.68	5.499	
14,600.0	10,530.0	14,896.6	10,743.2	45.0	36.2	-118.50	-4,310.1	-559.9	453.2	369.7	83.49	5.428	
14,630.0	10,530.0	14,927.1	10,742.0	45.2	36.4	-118.38	-4,340.6	-559.9	452.4	368.6	83.86	5.395	
14,700.0	10,530.0	14,988.7	10,739.8	45.6	36.9	-118.14	-4,402.1	-559.5	451.3	366.7	84.61	5.334	
14,720.5	10,530.0	15,006.4	10,739.4	45.7	37.0	-118.08	-4,419.8	-559.3	451.2	366.4	84.82	5.320	
14,725.0	10,530.0	15,010.3	10,739.3	45.7	37.0	-118.07	-4,423.7	-559.2	451.2	366.3	84.86	5.317	
14,800.0	10,530.0	15,086.9	10,738.1	46.2	37.6	-117.88	-4,500.3	-557.8	451.4	365.6	85.83	5.259	
14,820.0	10,530.0	15,108.3	10,737.7	46.3	37.8	-117.83	-4,521.7	-557.6	451.3	365.2	86.11	5.241	
14,891.6	10,530.0	15,177.6	10,736.6	46.7	38.3	-117.68	-4,590.9	-556.8	451.1	364.1	86.96	5.187	
14,900.0	10,530.0	15,185.6	10,736.4	46.7	38.3	-117.67	-4,599.0	-556.7	451.1	364.0	87.06	5.181	
14,915.0	10,530.0	15,199.9	10,736.2	46.8	38.4	-117.63	-4,613.3	-556.4	451.1	363.9	87.24	5.171	
15,000.0	10,530.0	15,286.1	10,734.9	47.3	39.0	-117.43	-4,699.5	-555.0	451.2	362.9	88.33	5.108	
15,010.0	10,530.0	15,296.3	10,734.7	47.4	39.1	-117.41	-4,709.7	-554.9	451.2	362.8	88.46	5.101	
15,019.9	10,530.0	15,305.8	10,734.5	47.4	39.2	-117.38	-4,719.2	-554.7	451.2	362.6	88.58	5.094	
15,100.0	10,530.0	15,382.8	10,733.1	47.9	39.7	-117.16	-4,796.2	-553.2	451.5	361.9	89.54	5.042	
15,105.0	10,530.0	15,387.0	10,733.0	47.9	39.8	-117.14	-4,800.3	-553.1	451.5	361.9	89.58	5.040	
15,200.0	10,530.0	15,464.9	10,732.9	48.5	40.3	-117.00	-4,878.2	-550.2	454.1	363.6	90.48	5.019	
15,295.0	10,530.0	15,550.6	10,735.3	49.1	41.0	-117.02	-4,963.7	-545.3	459.6	368.1	91.51	5.023	
15,300.0	10,530.0	15,555.2	10,735.5	49.1	41.0	-117.02	-4,968.3	-545.0	459.9	368.4	91.56	5.023	
15,390.0	10,530.0	15,639.0	10,738.5	49.6	41.6	-117.05	-5,051.8	-539.0	466.6	374.0	92.58	5.040	
15,400.0	10,530.0	15,648.3	10,738.9	49.7	41.7	-117.06	-5,061.1	-538.3	467.4	374.7	92.69	5.043	
15,485.0	10,530.0	15,756.4	10,741.5	50.2	42.5	-117.00	-5,168.9	-531.6	472.6	378.2	94.40	5.006	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
15,500.0	10,530.0	15,769.9	10,741.5	50.3	42.6	-116.98	-5,182.4	-531.0	473.1	378.6	94.57	5.003
15,580.0	10,530.0	15,852.0	10,741.8	50.8	43.2	-116.85	-5,264.5	-527.5	475.8	380.2	95.68	4.973
15,600.0	10,530.0	15,873.7	10,741.8	50.9	43.4	-116.80	-5,286.1	-526.6	476.4	380.4	95.97	4.964
15,675.0	10,530.0	15,954.4	10,741.0	51.4	44.0	-116.59	-5,366.8	-523.8	478.0	380.9	97.07	4.925
15,700.0	10,530.0	15,981.1	10,740.5	51.5	44.2	-116.51	-5,393.4	-523.0	478.4	380.9	97.42	4.910
15,770.0	10,530.0	16,052.3	10,738.9	51.9	44.7	-116.27	-5,464.6	-521.0	479.0	380.6	98.36	4.870
15,800.0	10,530.0	16,081.0	10,738.4	52.1	44.9	-116.17	-5,493.3	-520.2	479.3	380.6	98.73	4.855
15,865.0	10,530.0	16,144.2	10,737.4	52.5	45.4	-115.99	-5,556.5	-518.3	480.2	380.7	99.55	4.824
15,900.0	10,530.0	16,178.8	10,737.4	52.7	45.6	-115.96	-5,591.0	-517.5	480.8	380.8	100.01	4.807
15,960.0	10,530.0	16,242.5	10,738.3	53.1	46.1	-116.02	-5,654.7	-516.5	481.7	380.8	100.89	4.774
16,000.0	10,530.0	16,287.1	10,738.8	53.4	46.4	-116.08	-5,699.3	-516.2	481.9	380.3	101.52	4.747
16,027.8	10,530.0	16,314.7	10,739.1	53.5	46.6	-116.12	-5,726.9	-516.2	481.8	379.9	101.89	4.729
16,055.0	10,530.0	16,340.7	10,739.5	53.7	46.8	-116.17	-5,752.9	-516.2	481.9	379.6	102.24	4.713
16,100.0	10,530.0	16,384.0	10,740.4	54.0	47.1	-116.28	-5,796.2	-516.1	482.1	379.3	102.82	4.688
16,150.0	10,530.0	16,433.5	10,741.7	54.3	47.5	-116.42	-5,845.7	-516.0	482.4	378.9	103.50	4.661
16,200.0	10,530.0	16,482.8	10,742.8	54.6	47.9	-116.55	-5,895.0	-515.9	482.8	378.6	104.17	4.635
16,245.0	10,530.0	16,524.6	10,743.9	54.9	48.2	-116.66	-5,936.7	-515.6	483.3	378.6	104.72	4.615
16,300.0	10,530.0	16,580.0	10,745.8	55.3	48.6	-116.85	-5,992.1	-515.1	484.3	378.8	105.49	4.591
16,340.0	10,530.0	16,632.3	10,747.1	55.5	49.0	-117.02	-6,044.4	-515.3	484.4	378.1	106.26	4.559
16,400.0	10,530.0	16,694.9	10,747.7	55.9	49.5	-117.18	-6,107.0	-516.5	483.3	376.2	107.13	4.511
16,435.0	10,530.0	16,727.4	10,748.1	56.1	49.7	-117.26	-6,139.5	-517.0	482.8	375.2	107.59	4.488
16,500.0	10,530.0	16,789.2	10,748.9	56.5	50.2	-117.40	-6,201.3	-517.5	482.3	373.9	108.43	4.448
16,530.0	10,530.0	16,818.1	10,749.5	56.7	50.4	-117.48	-6,230.2	-517.7	482.2	373.4	108.83	4.431
16,600.0	10,530.0	16,891.4	10,751.0	57.2	50.9	-117.69	-6,303.5	-518.3	482.0	372.1	109.85	4.388
16,625.0	10,530.0	16,918.5	10,751.3	57.3	51.1	-117.76	-6,330.6	-518.7	481.7	371.5	110.22	4.370
16,700.0	10,530.0	16,998.9	10,751.3	57.8	51.7	-117.86	-6,410.9	-519.9	480.2	368.9	111.33	4.314
16,720.0	10,530.0	17,020.4	10,751.1	58.0	51.9	-117.85	-6,432.4	-520.3	479.7	368.1	111.62	4.298
16,800.0	10,530.0	17,111.2	10,749.0	58.5	52.5	-117.80	-6,523.2	-522.6	476.6	363.8	112.84	4.224
16,815.0	10,530.0	17,126.9	10,748.5	58.6	52.6	-117.79	-6,538.9	-523.2	475.8	362.8	113.05	4.209
16,900.0	10,530.0	17,213.9	10,745.8	59.1	53.3	-117.73	-6,625.7	-526.7	471.0	356.8	114.23	4.123
16,910.0	10,530.0	17,222.7	10,745.6	59.2	53.4	-117.73	-6,634.5	-527.1	470.5	356.1	114.36	4.114
17,000.0	10,530.0	17,303.0	10,744.3	59.8	53.9	-117.76	-6,714.8	-529.7	466.6	351.1	115.52	4.040
17,005.0	10,530.0	17,307.8	10,744.2	59.8	54.0	-117.77	-6,719.6	-529.8	466.5	350.9	115.59	4.036
17,100.0	10,530.0	17,402.0	10,743.1	60.4	54.7	-117.80	-6,813.8	-531.8	463.6	346.7	116.90	3.966
17,195.0	10,530.0	17,500.2	10,740.5	61.1	55.4	-117.69	-6,911.8	-534.2	459.9	341.6	118.25	3.889
17,200.0	10,530.0	17,504.7	10,740.4	61.1	55.4	-117.68	-6,916.3	-534.3	459.7	341.4	118.31	3.886
17,290.0	10,530.0	17,590.2	10,739.0	61.7	56.1	-117.64	-7,001.8	-535.8	457.1	337.6	119.51	3.825
17,300.0	10,530.0	17,600.8	10,738.8	61.8	56.1	-117.64	-7,012.4	-536.0	456.8	337.1	119.66	3.818
17,385.0	10,530.0	17,685.4	10,737.1	62.3	56.8	-117.58	-7,097.0	-537.6	454.1	333.3	120.84	3.758
17,400.0	10,530.0	17,699.0	10,736.8	62.4	56.9	-117.56	-7,110.7	-537.7	453.7	332.7	121.03	3.749
17,480.0	10,530.0	17,770.0	10,735.6	63.0	57.4	-117.46	-7,181.6	-538.0	452.4	330.4	122.01	3.708
17,496.2	10,530.0	17,783.8	10,735.5	63.1	57.5	-117.44	-7,195.4	-537.8	452.3	330.1	122.20	3.702
17,500.0	10,530.0	17,787.1	10,735.4	63.1	57.5	-117.44	-7,198.7	-537.8	452.3	330.1	122.24	3.700
17,575.0	10,530.0	17,850.7	10,735.4	63.6	58.0	-117.37	-7,262.3	-536.4	453.4	330.3	123.06	3.684
17,600.0	10,530.0	17,871.6	10,735.6	63.8	58.2	-117.36	-7,283.2	-535.6	454.1	330.8	123.32	3.683
17,670.0	10,530.0	17,930.7	10,737.1	64.2	58.6	-117.39	-7,342.2	-532.9	457.5	333.5	124.01	3.689
17,700.0	10,530.0	17,958.0	10,738.1	64.4	58.9	-117.43	-7,369.5	-531.3	459.3	335.0	124.35	3.694
17,765.0	10,530.0	18,017.9	10,740.8	64.9	59.3	-117.53	-7,429.1	-527.5	463.9	338.8	125.12	3.708
17,800.0	10,530.0	18,054.4	10,742.7	65.1	59.6	-117.62	-7,465.5	-525.2	466.5	340.9	125.67	3.712
17,860.0	10,530.0	18,121.3	10,746.3	65.5	60.1	-117.82	-7,532.2	-521.5	470.6	343.9	126.76	3.713
17,900.0	10,530.0	18,176.2	10,748.5	65.8	60.5	-117.98	-7,587.1	-519.8	472.3	344.5	127.75	3.697

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 10226-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
17,955.0	10,530.0	18,231.2	10,750.1	66.2	60.9	-118.13	-7,642.0	-519.0	473.4	344.8	128.56	3.682
18,000.0	10,530.0	18,271.0	10,751.5	66.5	61.2	-118.23	-7,681.8	-518.1	474.8	345.7	129.09	3.678
18,050.0	10,530.0	18,319.5	10,753.1	66.8	61.6	-118.34	-7,730.3	-516.5	476.8	347.0	129.77	3.674
18,100.0	10,530.0	18,370.1	10,754.4	67.1	62.0	-118.38	-7,780.8	-514.6	478.7	348.2	130.50	3.668
18,145.0	10,530.0	18,419.4	10,754.8	67.4	62.4	-118.33	-7,830.1	-512.6	480.3	349.0	131.26	3.659
18,200.0	10,530.0	18,479.0	10,753.6	67.8	62.8	-118.07	-7,889.6	-509.9	481.6	349.4	132.14	3.644
18,240.0	10,530.0	18,519.4	10,752.2	68.1	63.1	-117.84	-7,929.9	-508.1	482.3	349.6	132.71	3.635
18,300.0	10,530.0	18,581.8	10,750.0	68.5	63.6	-117.48	-7,992.2	-505.3	483.4	349.8	133.60	3.618
18,335.0	10,530.0	18,619.7	10,748.6	68.7	63.9	-117.27	-8,030.1	-503.8	483.8	349.6	134.15	3.606
18,400.0	10,530.0	18,687.1	10,746.1	69.2	64.4	-116.91	-8,097.4	-501.7	484.1	349.0	135.10	3.583
18,430.0	10,530.0	18,717.4	10,745.0	69.4	64.6	-116.75	-8,127.6	-500.8	484.2	348.7	135.52	3.573
18,500.0	10,530.0	18,786.2	10,742.5	69.9	65.1	-116.42	-8,196.4	-498.9	484.5	348.0	136.48	3.550
18,525.0	10,530.0	18,810.6	10,741.7	70.0	65.3	-116.29	-8,220.7	-498.1	484.6	347.8	136.82	3.542
18,600.0	10,530.0	18,890.4	10,738.7	70.6	65.9	-115.89	-8,300.5	-495.9	484.9	346.9	137.96	3.515
18,620.0	10,530.0	18,912.3	10,737.8	70.7	66.1	-115.77	-8,322.3	-495.4	484.8	346.5	138.27	3.506
18,670.8	10,530.0	18,959.9	10,735.9	71.1	66.4	-115.53	-8,369.8	-494.4	484.6	345.6	138.93	3.488
18,700.0	10,530.0	18,986.7	10,735.0	71.3	66.6	-115.42	-8,396.6	-493.7	484.6	345.3	139.30	3.479
18,715.0	10,530.0	19,000.4	10,734.7	71.4	66.7	-115.37	-8,410.4	-493.4	484.7	345.2	139.49	3.475
18,800.0	10,530.0	19,065.8	10,734.5	71.9	67.2	-115.26	-8,475.6	-491.0	487.0	346.7	140.24	3.472
18,810.0	10,530.0	19,073.3	10,734.7	72.0	67.3	-115.26	-8,483.1	-490.7	487.5	347.2	140.32	3.474
18,900.0	10,530.0	19,189.0	10,737.4	72.6	68.2	-115.34	-8,598.7	-485.9	491.6	349.2	142.35	3.453
18,905.0	10,530.0	19,197.1	10,737.2	72.7	68.3	-115.32	-8,606.8	-485.7	491.6	349.1	142.49	3.450
19,000.0	10,530.0	19,299.1	10,735.4	73.3	69.0	-115.13	-8,708.8	-485.1	490.8	346.9	143.97	3.409
19,095.0	10,530.0	19,407.7	10,732.6	74.0	69.8	-115.00	-8,817.3	-487.8	487.1	341.6	145.46	3.348
19,100.0	10,530.0	19,412.6	10,732.5	74.0	69.9	-115.00	-8,822.2	-488.0	486.8	341.3	145.53	3.345
19,190.0	10,530.0	19,507.0	10,729.9	74.7	70.6	-114.91	-8,916.6	-491.3	482.4	335.5	146.84	3.285
19,200.0	10,530.0	19,518.2	10,729.5	74.7	70.7	-114.90	-8,927.7	-491.8	481.8	334.8	146.98	3.278
19,285.0	10,530.0	19,607.7	10,725.9	75.3	71.3	-114.75	-9,017.0	-496.1	476.1	327.9	148.20	3.213
19,300.0	10,530.0	19,623.0	10,725.1	75.4	71.5	-114.71	-9,032.2	-496.8	475.1	326.7	148.41	3.201
19,380.0	10,530.0	19,705.0	10,720.9	76.0	72.1	-114.47	-9,114.0	-500.8	469.3	319.8	149.54	3.138
19,400.0	10,530.0	19,725.5	10,719.7	76.1	72.2	-114.41	-9,134.5	-501.9	467.8	318.0	149.82	3.123
19,475.0	10,530.0	19,796.4	10,716.3	76.6	72.7	-114.22	-9,205.3	-505.4	462.4	311.5	150.89	3.065
19,500.0	10,530.0	19,819.9	10,715.4	76.8	72.9	-114.19	-9,228.7	-506.6	460.8	309.5	151.24	3.046
19,570.0	10,530.0	19,893.2	10,713.2	77.3	73.5	-114.17	-9,301.8	-510.6	456.0	303.8	152.25	2.995
19,600.0	10,530.0	19,923.8	10,712.5	77.5	73.7	-114.19	-9,332.4	-512.5	453.8	301.2	152.68	2.973
19,665.0	10,530.0	19,986.6	10,711.4	78.0	74.1	-114.30	-9,395.1	-516.5	449.2	295.6	153.62	2.924
19,700.0	10,530.0	20,019.9	10,711.3	78.2	74.4	-114.41	-9,428.3	-518.7	446.9	292.7	154.13	2.899
19,760.0	10,530.0	20,076.3	10,711.1	78.6	74.8	-114.59	-9,484.5	-522.0	443.2	288.2	155.00	2.859
19,800.0	10,530.0	20,114.7	10,711.1	78.9	75.1	-114.71	-9,522.9	-524.1	441.0	285.4	155.58	2.834
19,855.0	10,530.0	20,168.8	10,710.9	79.3	75.5	-114.86	-9,576.9	-526.8	438.1	281.7	156.38	2.801
19,900.0	10,530.0	20,211.9	10,710.7	79.6	75.8	-114.96	-9,620.0	-528.8	435.8	278.8	157.03	2.775
19,950.0	10,530.0	20,259.1	10,710.9	80.0	76.2	-115.12	-9,667.1	-530.9	433.6	275.9	157.75	2.749
20,000.0	10,530.0	20,304.9	10,711.7	80.3	76.5	-115.33	-9,712.9	-532.8	431.8	273.3	158.45	2.725
20,045.0	10,530.0	20,345.4	10,712.8	80.7	76.8	-115.58	-9,753.4	-534.3	430.6	271.5	159.07	2.707
20,100.0	10,530.0	20,395.9	10,715.1	81.0	77.2	-115.95	-9,803.8	-535.9	429.7	269.9	159.82	2.689
20,140.0	10,530.0	20,433.0	10,717.2	81.3	77.5	-116.28	-9,840.8	-537.0	429.5	269.1	160.37	2.678
20,160.3	10,530.0	20,451.8	10,718.3	81.5	77.6	-116.46	-9,859.6	-537.5	429.4	268.8	160.65	2.673
20,200.0	10,530.0	20,488.1	10,720.8	81.8	77.9	-116.81	-9,895.8	-538.3	429.6	268.4	161.17	2.665
20,235.0	10,530.0	20,520.1	10,722.9	82.0	78.1	-117.10	-9,927.7	-538.7	430.0	268.4	161.63	2.661
20,300.0	10,530.0	20,581.6	10,727.0	82.5	78.6	-117.63	-9,989.0	-539.0	431.4	268.8	162.51	2.654
20,330.0	10,530.0	20,610.8	10,729.0	82.7	78.8	-117.88	-10,018.2	-539.1	432.1	269.2	162.94	2.652

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #801H - ST01 - AWP													Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 10226-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
									(usft)	(usft)	(usft)			
20,392.7	10,530.0	20,674.0	10,733.6	83.1	79.3	-118.45	-10,081.2	-539.2	433.8	269.9	163.90	2.647		
20,400.0	10,530.0	20,681.5	10,734.1	83.2	79.3	-118.51	-10,088.7	-539.2	433.9	269.9	164.01	2.646		
20,425.0	10,530.0	20,707.3	10,735.9	83.4	79.5	-118.74	-10,114.5	-539.4	434.5	270.1	164.41	2.643 SF		
20,500.0	10,530.0	20,769.0	10,740.0	83.9	80.0	-119.25	-10,176.0	-539.6	436.4	271.4	165.09	2.644		
20,520.0	10,530.0	20,769.0	10,740.0	84.0	80.0	-119.25	-10,176.0	-539.6	438.0	273.5	164.47	2.663		
20,522.7	10,530.0	20,769.0	10,740.0	84.0	80.0	-119.25	-10,176.0	-539.6	438.2	273.9	164.36	2.666		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #802H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.51	-0.8	-90.0	90.1				
95.0	95.0	91.4	91.4	3.0	3.0	-90.37	-0.6	-90.3	90.3	84.3	6.00	15.050	
100.0	100.0	96.4	96.4	3.0	3.0	-90.35	-0.6	-90.3	90.3	84.3	6.00	15.056	
190.0	190.0	186.9	186.9	3.0	3.0	-90.05	-0.1	-90.7	90.7	84.7	6.00	15.101	
200.0	200.0	196.8	196.8	3.0	3.0	-89.98	0.0	-90.7	90.7	84.7	6.00	15.102	
285.0	285.0	281.7	281.7	3.0	3.0	-89.35	1.0	-91.1	91.1	85.1	6.01	15.153	
300.0	300.0	296.7	296.7	3.0	3.0	-89.25	1.2	-91.1	91.1	85.1	6.01	15.158	
380.0	380.0	376.8	376.8	3.0	3.0	-88.54	2.3	-91.4	91.4	85.4	6.02	15.189	
400.0	400.0	396.6	396.6	3.0	3.0	-88.37	2.6	-91.5	91.5	85.5	6.02	15.195	
475.0	475.0	471.6	471.6	3.0	3.0	-87.87	3.4	-91.9	91.9	85.9	6.03	15.238	
500.0	500.0	496.9	496.8	3.1	3.1	-87.74	3.6	-91.9	92.0	86.0	6.04	15.240	
570.0	570.0	566.6	566.6	3.1	3.1	-87.45	4.1	-92.1	92.2	86.1	6.05	15.237	
600.0	600.0	596.4	596.4	3.1	3.1	-87.36	4.3	-92.3	92.4	86.3	6.06	15.247	
665.0	665.0	661.4	661.3	3.1	3.1	-87.12	4.7	-92.7	92.8	86.8	6.08	15.282	
665.1	665.1	661.5	661.5	3.1	3.1	-87.12	4.7	-92.7	92.8	86.8	6.08	15.282	
700.0	700.0	682.0	682.0	3.1	3.1	-87.06	4.8	-92.9	94.2	88.2	6.01	15.673	
760.0	760.0	682.0	682.0	3.1	3.1	-87.06	4.8	-92.9	119.5	114.6	4.85	24.648	
800.0	800.0	682.0	682.0	3.2	3.1	-87.06	4.8	-92.9	147.9	143.9	4.05	36.559	
855.0	855.0	682.0	682.0	3.2	3.1	-87.06	4.8	-92.9	193.8	190.5	3.30	58.701	
900.0	900.0	682.0	682.0	3.2	3.1	-87.06	4.8	-92.9	234.3	231.4	2.93	79.945	
950.0	950.0	682.0	682.0	3.2	3.1	-87.06	4.8	-92.9	280.9	278.2	2.68	104.978	
1,000.0	1,000.0	682.0	682.0	3.2	3.1	-87.06	4.8	-92.9	328.5	325.9	2.52	130.136	
1,045.0	1,045.0	682.0	682.0	3.3	3.1	-87.06	4.8	-92.9	371.9	369.4	2.44	152.144	
1,100.0	1,100.0	682.0	682.0	3.3	3.1	-87.06	4.8	-92.9	425.3	422.9	2.39	177.744	
1,140.0	1,140.0	682.0	682.0	3.3	3.1	-87.06	4.8	-92.9	464.4	462.1	2.38	195.321	
1,200.0	1,200.0	682.0	682.0	3.4	3.1	-87.06	4.8	-92.9	523.4	521.0	2.38	220.038	
1,235.0	1,235.0	682.0	682.0	3.4	3.1	-87.06	4.8	-92.9	557.8	555.5	2.39	233.555	
1,300.0	1,300.0	682.0	682.0	3.4	3.1	-87.06	4.8	-92.9	622.0	619.6	2.42	257.061	
1,330.0	1,330.0	682.0	682.0	3.4	3.1	-87.06	4.8	-92.9	651.7	649.3	2.44	267.237	
1,400.0	1,400.0	682.0	682.0	3.5	3.1	-87.06	4.8	-92.9	721.1	718.6	2.49	289.538	
1,425.0	1,425.0	682.0	682.0	3.5	3.1	-87.06	4.8	-92.9	745.9	743.3	2.51	297.027	
1,500.0	1,500.0	682.0	682.0	3.5	3.1	-87.06	4.8	-92.9	820.3	817.7	2.58	318.213	
1,520.0	1,520.0	682.0	682.0	3.6	3.1	-87.06	4.8	-92.9	840.2	837.6	2.60	323.539	
1,600.0	1,600.0	682.0	682.0	3.6	3.1	-87.06	4.8	-92.9	919.7	917.1	2.68	343.704	
1,615.0	1,615.0	682.0	682.0	3.6	3.1	-87.06	4.8	-92.9	934.7	932.0	2.69	347.277	

CC - Min centre to center distance or convergent 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 #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FEDERAL COM #803H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 873-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-90.47	-1.0	-120.0	120.1					
95.0	95.0	91.8	91.8	3.0	3.0	-90.67	-1.4	-120.1	120.1	114.1	6.00	20.016		
100.0	100.0	96.8	96.8	3.0	3.0	-90.69	-1.4	-120.1	120.1	114.1	6.00	20.017		
190.0	190.0	187.4	187.3	3.0	3.0	-91.25	-2.6	-120.0	120.1	114.1	6.00	20.004		
200.0	200.0	197.4	197.4	3.0	3.0	-91.32	-2.8	-120.0	120.0	114.0	6.00	19.997		
285.0	285.0	282.1	282.1	3.0	3.0	-91.81	-3.8	-119.7	119.8	113.8	6.01	19.941		
300.0	300.0	297.2	297.2	3.0	3.0	-91.92	-4.0	-119.7	119.8	113.8	6.01	19.934		
380.0	380.0	377.6	377.5	3.0	3.0	-92.49	-5.2	-119.3	119.4	113.4	6.02	19.850		
400.0	400.0	397.3	397.2	3.0	3.0	-92.63	-5.5	-119.2	119.4	113.3	6.02	19.832		
415.4	415.4	412.4	412.4	3.0	3.0	-92.75	-5.7	-119.2	119.3	113.3	6.02	19.824		
475.0	475.0	471.8	471.8	3.0	3.0	-93.18	-6.6	-119.3	119.4	113.4	6.03	19.818		
500.0	500.0	496.8	496.8	3.1	3.1	-93.36	-7.0	-119.3	119.5	113.5	6.03	19.815		
570.0	570.0	566.7	566.7	3.1	3.1	-94.00	-8.4	-119.4	119.7	113.6	6.04	19.807		
600.0	600.0	596.9	596.8	3.1	3.1	-94.27	-8.9	-119.4	119.7	113.7	6.05	19.802		
665.0	665.0	662.7	662.7	3.1	3.1	-94.77	-9.9	-119.2	119.6	113.5	6.06	19.737		
700.0	700.0	698.0	698.0	3.1	3.1	-95.12	-10.7	-118.9	119.3	113.3	6.07	19.673		
760.0	760.0	758.0	757.9	3.1	3.2	-95.85	-12.1	-118.2	118.9	112.8	6.10	19.491		
800.0	800.0	798.0	797.9	3.2	3.2	-96.39	-13.2	-117.8	118.6	112.4	6.13	19.352		
855.0	855.0	853.0	852.9	3.2	3.4	-97.22	-14.8	-117.2	118.1	112.0	6.18	19.126		
900.0	900.0	897.9	897.7	3.2	3.5	-97.92	-16.2	-116.7	117.8	111.6	6.23	18.920		
950.0	950.0	947.6	947.4	3.2	3.6	-98.52	-17.4	-116.3	117.6	111.3	6.29	18.695		
988.8	988.8	986.0	985.8	3.2	3.7	-98.81	-18.0	-116.1	117.5	111.1	6.38	18.417 CC		
1,000.0	1,000.0	997.0	996.8	3.2	3.7	-98.84	-18.1	-116.1	117.5	111.1	6.42	18.317 ES		
1,045.0	1,045.0	1,041.3	1,041.1	3.3	3.8	-98.75	-17.9	-116.3	117.7	111.1	6.57	17.914		
1,100.0	1,100.0	1,095.7	1,095.5	3.3	4.1	-98.31	-17.1	-117.0	118.3	111.5	6.77	17.463		
1,140.0	1,140.0	1,135.3	1,135.1	3.3	4.3	-97.97	-16.5	-117.7	118.9	111.9	6.93	17.151		
1,200.0	1,200.0	1,195.1	1,194.9	3.4	4.5	-97.44	-15.5	-118.8	119.9	112.8	7.03	17.054		
1,235.0	1,235.0	1,230.0	1,229.7	3.4	4.5	-97.10	-14.9	-119.6	120.5	113.4	7.07	17.037		
1,300.0	1,300.0	1,294.9	1,294.7	3.4	4.6	-96.45	-13.7	-121.0	121.8	114.6	7.17	16.977		
1,330.0	1,330.0	1,324.9	1,324.6	3.4	4.7	-96.16	-13.1	-121.6	122.3	115.1	7.22	16.945 SF		
1,400.0	1,400.0	1,336.0	1,335.7	3.5	4.7	-96.05	-12.9	-121.8	137.0	130.2	6.77	20.242		
1,425.0	1,425.0	1,336.0	1,335.7	3.5	4.7	-96.05	-12.9	-121.8	149.9	143.4	6.44	23.255		
1,500.0	1,500.0	1,336.0	1,335.7	3.5	4.7	-96.05	-12.9	-121.8	202.5	196.9	5.66	35.813		
1,520.0	1,520.0	1,336.0	1,335.7	3.6	4.7	-96.05	-12.9	-121.8	218.8	213.3	5.52	39.669		
1,600.0	1,600.0	1,336.0	1,335.7	3.6	4.7	-96.05	-12.9	-121.8	288.6	283.4	5.18	55.750		
1,615.0	1,615.0	1,336.0	1,335.7	3.6	4.7	-96.05	-12.9	-121.8	302.2	297.1	5.14	58.790		
1,700.0	1,700.0	1,336.0	1,335.7	3.7	4.7	-96.05	-12.9	-121.8	381.5	376.5	5.03	75.775		
1,710.0	1,710.0	1,336.0	1,335.7	3.7	4.7	-96.05	-12.9	-121.8	391.0	386.0	5.03	77.733		
1,800.0	1,800.0	1,336.0	1,335.7	3.8	4.7	-96.05	-12.9	-121.8	477.3	472.3	5.03	94.914		
1,805.0	1,805.0	1,336.0	1,335.7	3.8	4.7	-96.05	-12.9	-121.8	482.1	477.1	5.03	95.844		
1,900.0	1,900.0	1,336.0	1,335.7	3.9	4.7	-96.05	-12.9	-121.8	574.5	569.4	5.08	113.043		
1,995.0	1,995.0	1,336.0	1,335.7	3.9	4.7	-96.05	-12.9	-121.8	667.6	662.5	5.16	129.368		
2,000.0	2,000.0	1,336.0	1,335.7	3.9	4.7	-96.05	-12.9	-121.8	672.5	667.4	5.17	130.205		
2,090.0	2,090.0	1,336.0	1,335.7	4.1	4.7	-71.18	-12.9	-121.8	761.2	755.1	6.05	125.909		
2,100.0	2,100.0	1,336.0	1,335.7	4.2	4.7	-70.07	-12.9	-121.8	771.0	764.9	6.14	125.474		
2,185.0	2,184.9	1,336.0	1,335.7	4.7	4.7	-60.79	-12.9	-121.8	854.9	848.7	6.22	137.545		
2,200.0	2,199.8	1,336.0	1,335.7	4.8	4.7	-59.21	-12.9	-121.8	869.7	863.4	6.23	139.639		
2,250.0	2,249.7	1,336.0	1,335.7	4.9	4.7	-54.12	-12.9	-121.8	919.0	912.7	6.27	146.550		
2,280.0	2,279.6	1,336.0	1,335.7	5.0	4.7	-54.12	-12.9	-121.8	948.6	942.3	6.30	150.610		
2,300.0	2,299.5	1,336.0	1,335.7	5.0	4.7	-54.12	-12.9	-121.8	968.4	962.1	6.32	153.296		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.52	-0.3	-30.0	30.0				
95.0	95.0	95.0	95.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	5.000	
100.0	100.0	100.0	100.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	5.000	
190.0	190.0	190.0	190.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	4.998	
200.0	200.0	200.0	200.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	4.998	
285.0	285.0	285.0	285.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.01	4.994	
300.0	300.0	300.0	300.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.01	4.993	
380.0	380.0	380.0	380.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.02	4.987	
400.0	400.0	400.0	400.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.02	4.985	
475.0	475.0	475.0	475.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.03	4.978	
500.0	500.0	500.0	500.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	24.0	6.03	4.975	
570.0	570.0	570.0	570.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	24.0	6.04	4.966	
600.0	600.0	600.0	600.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	24.0	6.05	4.962	
665.0	665.0	665.0	665.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.06	4.952	
700.0	700.0	700.0	700.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.06	4.947	
760.0	760.0	760.0	760.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.08	4.936	
800.0	800.0	800.0	800.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.9	6.09	4.929	
855.0	855.0	855.0	855.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.9	6.10	4.918	
900.0	900.0	900.0	900.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.9	6.11	4.909	
950.0	950.0	950.0	950.0	3.2	3.2	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-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	-90.52	-0.3	-30.0	30.0	23.4	6.58	4.560	
2,090.0	2,090.0	2,089.8	2,089.8	4.1	4.1	-75.52	1.1	-30.4	30.0	23.4	6.61	4.536	
2,100.0	2,100.0	2,099.7	2,099.7	4.2	4.2	-75.52	1.4	-30.4	30.0	23.4	6.62	4.533	
2,185.0	2,184.9	2,184.5	2,184.4	4.7	4.7	-75.54	5.5	-31.5	30.0	23.3	6.68	4.488	
2,200.0	2,199.8	2,199.5	2,199.3	4.8	4.8	-75.55	6.4	-31.8	30.0	23.3	6.70	4.480	
2,250.0	2,249.7	2,249.3	2,249.0	4.9	4.9	-75.57	10.2	-32.8	30.0	23.2	6.76	4.436	
2,260.2	2,259.9	2,259.6	2,259.2	5.0	5.0	-75.57	11.1	-33.0	30.0	23.2	6.78	4.425	
2,280.0	2,279.6	2,279.3	2,278.9	5.0	5.0	-75.57	12.7	-33.5	30.0	23.2	6.81	4.402	
2,296.0	2,295.5	2,295.4	2,294.9	5.0	5.0	-75.57	14.1	-33.8	30.0	23.2	6.84	4.384	
2,300.0	2,299.5	2,299.3	2,298.8	5.0	5.0	-75.57	14.4	-33.9	30.0	23.1	6.85	4.380	
2,320.1	2,319.6	2,319.5	2,318.9	5.0	5.0	-75.57	16.1	-34.4	30.0	23.1	6.90	4.349	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
2,375.0	2,374.2	2,374.3	2,373.6	5.1	5.1	-75.57	20.7	-35.6	30.0	23.0	7.03	4.264		
2,395.0	2,394.1	2,394.3	2,393.5	5.1	5.1	-75.57	22.4	-36.1	30.0	22.9	7.09	4.232		
2,400.0	2,399.1	2,399.3	2,398.5	5.1	5.1	-75.57	22.8	-36.2	30.0	22.9	7.10	4.224		
2,419.6	2,418.7	2,419.0	2,418.0	5.1	5.1	-75.57	24.5	-36.6	30.0	22.8	7.16	4.187		
2,470.0	2,468.8	2,469.3	2,468.2	5.2	5.2	-75.57	28.7	-37.8	30.0	22.7	7.33	4.090		
2,484.7	2,483.5	2,484.0	2,482.8	5.2	5.2	-75.57	30.0	-38.1	30.0	22.6	7.38	4.062		
2,500.0	2,498.7	2,499.3	2,498.1	5.3	5.3	-75.57	31.3	-38.4	30.0	22.6	7.44	4.033		
2,535.0	2,533.6	2,534.3	2,532.9	5.3	5.3	-75.57	34.2	-39.2	30.0	22.4	7.55	3.971		
2,545.1	2,543.7	2,544.4	2,542.9	5.3	5.3	-73.36	35.0	-39.5	30.0	22.4	7.59	3.950		
2,559.9	2,558.4	2,559.0	2,557.5	5.3	5.3	-70.02	36.2	-39.9	30.0	22.3	7.65	3.919 CC		
2,565.0	2,563.5	2,564.1	2,562.6	5.3	5.3	-68.84	36.6	-40.0	30.0	22.3	7.67	3.908		
2,600.0	2,598.4	2,598.8	2,597.1	5.4	5.4	-60.50	39.3	-41.3	30.0	22.2	7.82	3.837		
2,660.0	2,658.2	2,658.2	2,656.4	5.6	5.6	-45.84	43.2	-44.3	30.0	21.8	8.19	3.669		
2,700.0	2,698.0	2,697.9	2,695.9	5.8	5.8	-36.55	45.6	-46.9	30.1	21.6	8.44	3.563		
2,755.0	2,752.8	2,752.4	2,750.2	6.1	6.1	-25.19	48.3	-51.2	30.1	21.5	8.69	3.469		
2,800.0	2,797.6	2,797.0	2,794.5	6.4	6.4	-17.29	50.1	-55.4	30.2	21.3	8.89	3.398		
2,850.0	2,847.3	2,846.5	2,843.8	6.6	6.6	-9.91	51.6	-60.7	30.3	21.2	9.14	3.317		
2,900.0	2,896.9	2,896.1	2,892.9	6.9	6.9	-3.77	52.8	-66.8	30.5	21.1	9.40	3.240		
2,945.0	2,941.5	2,940.7	2,937.1	7.0	7.0	0.92	53.4	-72.9	30.6	20.7	9.87	3.100		
3,000.0	2,995.9	2,995.2	2,991.0	7.2	7.2	5.82	53.7	-81.1	30.8	20.4	10.45	2.948		
3,040.0	3,035.4	3,034.9	3,030.1	7.4	7.3	8.94	53.6	-87.6	31.0	20.0	10.94	2.832		
3,100.0	3,094.4	3,094.3	3,088.6	7.5	7.5	13.08	52.8	-98.3	31.3	19.5	11.74	2.663		
3,135.0	3,128.8	3,129.0	3,122.6	7.6	7.6	15.26	52.1	-105.0	31.5	19.4	12.02	2.618		
3,144.0	3,137.6	3,137.9	3,131.4	7.6	7.6	15.80	51.8	-106.8	31.5	19.4	12.08	2.607 ES		
3,200.0	3,192.5	3,193.8	3,186.0	7.7	7.7	16.54	50.2	-118.2	32.1	19.6	12.42	2.582		
3,230.0	3,221.9	3,223.8	3,215.4	7.8	7.8	16.88	49.3	-124.4	32.4	19.8	12.59	2.572		
3,300.0	3,290.5	3,293.8	3,283.8	8.0	8.0	17.67	47.3	-138.8	33.1	20.1	13.00	2.550		
3,325.0	3,315.0	3,318.8	3,308.3	8.0	8.0	17.95	46.6	-143.9	33.4	20.3	13.16	2.540		
3,400.0	3,388.5	3,393.8	3,381.6	8.2	8.2	18.74	44.3	-159.4	34.2	20.6	13.64	2.511		
3,420.0	3,408.1	3,413.8	3,401.2	8.2	8.2	18.94	43.8	-163.5	34.5	20.7	13.77	2.503		
3,500.0	3,486.5	3,493.8	3,479.4	8.4	8.4	19.74	41.4	-180.0	35.4	21.1	14.30	2.473		
3,515.0	3,501.2	3,508.8	3,494.1	8.5	8.5	19.88	41.0	-183.0	35.5	21.1	14.40	2.468		
3,600.0	3,584.4	3,593.8	3,577.2	8.7	8.7	20.68	38.5	-200.5	36.5	21.5	14.97	2.437		
3,610.0	3,594.2	3,603.8	3,587.0	8.7	8.7	20.77	38.2	-202.6	36.6	21.6	15.04	2.434		
3,700.0	3,682.4	3,693.8	3,675.0	9.0	9.0	21.56	35.5	-221.1	37.6	22.0	15.65	2.403		
3,705.0	3,687.3	3,698.8	3,679.9	9.0	9.0	21.60	35.4	-222.1	37.7	22.0	15.69	2.401		
3,800.0	3,780.4	3,793.7	3,772.9	9.2	9.3	22.39	32.6	-241.7	38.8	22.4	16.35	2.371		
3,895.0	3,873.5	3,888.7	3,865.8	9.5	9.5	23.13	29.8	-261.2	39.8	22.8	17.01	2.342		
3,900.0	3,878.4	3,893.7	3,870.7	9.5	9.5	23.17	29.7	-262.3	39.9	22.9	17.05	2.341		
3,990.0	3,966.6	3,983.7	3,958.7	9.8	9.8	23.84	27.0	-280.8	40.9	23.3	17.68	2.315		
4,000.0	3,976.4	3,993.7	3,968.5	9.8	9.8	23.91	26.7	-282.9	41.1	23.3	17.75	2.312		
4,085.0	4,059.7	4,078.7	4,051.6	10.1	10.1	24.50	24.2	-300.4	42.0	23.7	18.36	2.290		
4,100.0	4,074.4	4,093.7	4,066.3	10.1	10.1	24.61	23.8	-303.4	42.2	23.7	18.47	2.286		
4,180.0	4,152.8	4,173.7	4,144.5	10.4	10.4	25.14	21.4	-319.9	43.1	24.1	19.04	2.266		
4,200.0	4,172.4	4,193.7	4,164.1	10.4	10.5	25.27	20.8	-324.0	43.4	24.2	19.19	2.261		
4,275.0	4,245.9	4,268.7	4,237.4	10.7	10.7	25.74	18.6	-339.5	44.3	24.5	19.73	2.243		
4,300.0	4,270.4	4,293.7	4,261.9	10.7	10.8	25.89	17.9	-344.6	44.6	24.6	19.91	2.237		
4,370.0	4,339.0	4,363.7	4,330.4	11.0	11.0	26.31	15.8	-359.0	45.4	25.0	20.42	2.222		
4,400.0	4,368.4	4,393.7	4,359.7	11.1	11.1	26.49	15.0	-365.2	45.7	25.1	20.64	2.215		
4,465.0	4,432.1	4,458.7	4,423.3	11.3	11.3	26.86	13.1	-378.6	46.5	25.4	21.12	2.202		
4,500.0	4,466.4	4,493.7	4,457.5	11.4	11.4	27.05	12.0	-385.8	46.9	25.5	21.37	2.195		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,560.0	4,525.2	4,553.7	4,516.2	11.6	11.6	27.38	10.3	-398.1	47.6	25.8	21.81	2.183		
4,600.0	4,564.4	4,593.7	4,555.3	11.7	11.7	27.59	9.1	-406.3	48.1	26.0	22.11	2.175		
4,655.0	4,618.3	4,648.7	4,609.1	11.9	11.9	27.87	7.5	-417.7	48.8	26.2	22.51	2.165		
4,700.0	4,662.4	4,693.7	4,653.1	12.0	12.1	28.10	6.2	-426.9	49.3	26.4	22.85	2.157		
4,750.0	4,711.4	4,743.7	4,702.0	12.2	12.2	28.34	4.7	-437.2	49.9	26.7	23.22	2.149		
4,800.0	4,760.4	4,793.7	4,750.9	12.4	12.4	28.58	3.2	-447.5	50.5	26.9	23.59	2.140		
4,845.0	4,804.4	4,838.7	4,794.9	12.5	12.6	28.80	1.9	-456.8	51.0	27.1	23.92	2.133		
4,900.0	4,858.3	4,893.7	4,848.7	12.7	12.8	29.05	0.3	-468.1	51.7	27.3	24.33	2.124		
4,940.0	4,897.5	4,933.7	4,887.9	12.8	12.9	29.23	-0.9	-476.3	52.2	27.5	24.63	2.118		
5,000.0	4,956.3	4,993.6	4,946.5	13.1	13.1	29.49	-2.7	-488.7	52.9	27.8	25.08	2.109		
5,035.0	4,990.6	5,028.6	4,980.8	13.2	13.2	29.64	-3.7	-495.9	53.3	28.0	25.34	2.104		
5,100.0	5,054.3	5,093.6	5,044.3	13.4	13.4	29.91	-5.6	-509.2	54.1	28.3	25.82	2.094		
5,130.0	5,083.7	5,123.6	5,073.7	13.5	13.5	30.04	-6.5	-515.4	54.4	28.4	26.05	2.090		
5,200.0	5,152.3	5,193.6	5,142.2	13.7	13.8	30.32	-8.5	-529.8	55.3	28.7	26.57	2.081		
5,225.0	5,176.8	5,218.6	5,166.6	13.8	13.9	30.42	-9.3	-535.0	55.6	28.8	26.76	2.077		
5,300.0	5,250.3	5,293.6	5,240.0	14.1	14.1	30.71	-11.5	-550.4	56.5	29.2	27.32	2.068		
5,320.0	5,269.9	5,313.6	5,259.5	14.2	14.2	30.78	-12.1	-554.5	56.7	29.3	27.47	2.065		
5,400.0	5,348.3	5,393.6	5,337.8	14.4	14.5	31.08	-14.4	-571.0	57.7	29.6	28.07	2.056		
5,415.0	5,363.0	5,408.6	5,352.4	14.5	14.5	31.13	-14.9	-574.1	57.9	29.7	28.19	2.054		
5,500.0	5,446.3	5,493.6	5,435.6	14.8	14.8	31.43	-17.4	-591.6	58.9	30.1	28.83	2.044		
5,510.0	5,456.1	5,503.6	5,445.4	14.8	14.9	31.47	-17.6	-593.6	59.0	30.1	28.90	2.043		
5,600.0	5,544.3	5,593.6	5,533.4	15.1	15.2	31.77	-20.3	-612.1	60.1	30.6	29.58	2.033		
5,605.0	5,549.2	5,598.6	5,538.3	15.2	15.2	31.79	-20.4	-613.2	60.2	30.6	29.62	2.033		
5,700.0	5,642.3	5,693.6	5,631.2	15.5	15.6	32.10	-23.2	-632.7	61.4	31.0	30.33	2.023		
5,795.0	5,735.4	5,788.6	5,724.1	15.8	15.9	32.40	-26.0	-652.3	62.5	31.5	31.05	2.013		
5,800.0	5,740.3	5,793.6	5,729.0	15.9	15.9	32.42	-26.2	-653.3	62.6	31.5	31.09	2.013		
5,890.0	5,828.5	5,883.6	5,817.0	16.2	16.2	32.69	-28.8	-671.8	63.7	31.9	31.77	2.004		
5,900.0	5,838.3	5,893.6	5,826.8	16.2	16.3	32.72	-29.1	-673.9	63.8	31.9	31.85	2.003		
5,985.0	5,921.6	5,978.6	5,909.9	16.5	16.6	32.97	-31.6	-691.4	64.8	32.3	32.49	1.995 Advise and Monitor		
6,000.0	5,936.3	5,993.6	5,924.6	16.6	16.6	33.01	-32.0	-694.5	65.0	32.4	32.61	1.994 Advise and Monitor		
6,080.0	6,014.7	6,073.6	6,002.9	16.9	16.9	33.24	-34.4	-710.9	66.0	32.8	33.21	1.987 Advise and Monitor		
6,100.0	6,034.2	6,093.6	6,022.4	16.9	17.0	33.29	-35.0	-715.0	66.2	32.9	33.36	1.985 Advise and Monitor		
6,175.0	6,107.7	6,168.6	6,095.8	17.2	17.3	33.50	-37.2	-730.5	67.2	33.2	33.93	1.979 Advise and Monitor		
6,200.0	6,132.2	6,193.6	6,120.2	17.3	17.4	33.56	-37.9	-735.6	67.5	33.3	34.12	1.977 Advise and Monitor		
6,270.0	6,200.8	6,263.5	6,188.7	17.6	17.6	33.75	-40.0	-750.0	68.3	33.7	34.66	1.972 Advise and Monitor		
6,300.0	6,230.2	6,293.5	6,218.0	17.7	17.7	33.82	-40.9	-756.2	68.7	33.8	34.88	1.969 Advise and Monitor		
6,365.0	6,293.9	6,358.5	6,281.6	17.9	18.0	33.99	-42.8	-769.6	69.5	34.1	35.38	1.964 Advise and Monitor		
6,400.0	6,328.2	6,393.5	6,315.8	18.0	18.1	34.08	-43.8	-776.8	69.9	34.3	35.65	1.962 Advise and Monitor		
6,460.0	6,387.0	6,453.5	6,374.5	18.3	18.3	34.22	-45.6	-789.1	70.7	34.6	36.10	1.957 Advise and Monitor		
6,500.0	6,426.2	6,493.5	6,413.6	18.4	18.5	34.32	-46.7	-797.4	71.2	34.7	36.41	1.954 Advise and Monitor		
6,555.0	6,480.1	6,548.5	6,467.4	18.6	18.7	34.45	-48.4	-808.7	71.8	35.0	36.83	1.951 Advise and Monitor		
6,600.0	6,524.2	6,593.5	6,511.4	18.8	18.8	34.55	-49.7	-817.9	72.4	35.2	37.17	1.948 Advise and Monitor		
6,650.0	6,573.2	6,643.5	6,560.4	19.0	19.0	34.67	-51.1	-828.2	73.0	35.5	37.55	1.944 Advise and Monitor		
6,700.0	6,622.2	6,693.5	6,609.3	19.1	19.2	34.78	-52.6	-838.5	73.6	35.7	37.93	1.941 Advise and Monitor		
6,745.0	6,666.3	6,738.5	6,653.3	19.3	19.4	34.88	-53.9	-847.8	74.2	35.9	38.28	1.938 Advise and Monitor		
6,800.0	6,720.2	6,793.5	6,707.1	19.5	19.6	35.00	-55.5	-859.1	74.9	36.2	38.70	1.934 Advise and Monitor		
6,840.0	6,759.4	6,833.5	6,746.2	19.7	19.7	35.09	-56.7	-867.3	75.4	36.3	39.00	1.932 Advise and Monitor		
6,900.0	6,818.2	6,893.5	6,804.9	19.9	19.9	35.21	-58.5	-879.7	76.1	36.6	39.46	1.928 Advise and Monitor		
6,935.0	6,852.5	6,928.5	6,839.1	20.0	20.1	35.29	-59.5	-886.9	76.5	36.8	39.73	1.926 Advise and Monitor		
7,000.0	6,916.2	6,993.5	6,902.7	20.2	20.3	35.42	-61.4	-900.3	77.3	37.1	40.22	1.922 Advise and Monitor		
7,030.0	6,945.6	7,023.5	6,932.0	20.4	20.4	35.48	-62.3	-906.4	77.7	37.2	40.45	1.921 Advise and Monitor		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,100.0	7,014.2	7,093.5	7,000.5	20.6	20.7	35.62	-64.4	-920.8	78.6	37.6	40.99	1.917	Advise and Monitor	
7,125.0	7,038.7	7,118.5	7,024.9	20.7	20.8	35.67	-65.1	-926.0	78.9	37.7	41.18	1.915	Advise and Monitor	
7,200.0	7,112.2	7,193.5	7,098.3	21.0	21.1	35.81	-67.3	-941.4	79.8	38.0	41.75	1.911	Advise and Monitor	
7,220.0	7,131.8	7,213.5	7,117.9	21.1	21.1	35.85	-67.9	-945.5	80.1	38.1	41.91	1.910	Advise and Monitor	
7,300.0	7,210.2	7,293.5	7,196.1	21.4	21.4	36.00	-70.2	-962.0	81.0	38.5	42.52	1.906	Advise and Monitor	
7,315.0	7,224.9	7,308.5	7,210.8	21.4	21.5	36.03	-70.7	-965.1	81.2	38.6	42.64	1.905	Advise and Monitor	
7,400.0	7,308.1	7,393.5	7,293.9	21.7	21.8	36.18	-73.2	-982.6	82.3	39.0	43.29	1.901	Advise and Monitor	
7,410.0	7,317.9	7,403.5	7,303.7	21.8	21.9	36.20	-73.5	-984.6	82.4	39.0	43.36	1.900	Advise and Monitor	
7,500.0	7,406.1	7,493.4	7,391.7	22.1	22.2	36.35	-76.1	-1,003.2	83.5	39.5	44.05	1.896	Advise and Monitor	
7,505.0	7,411.0	7,498.4	7,396.6	22.1	22.2	36.36	-76.3	-1,004.2	83.6	39.5	44.09	1.896	Advise and Monitor	
7,600.0	7,504.1	7,593.4	7,489.5	22.5	22.6	36.53	-79.1	-1,023.7	84.8	39.9	44.82	1.891	Advise and Monitor	
7,648.7	7,551.8	7,642.1	7,537.1	22.7	22.7	36.61	-80.5	-1,033.8	85.4	40.2	45.19	1.889	Advise and Monitor, SF	
7,695.0	7,597.3	7,688.4	7,582.4	22.8	22.9	36.55	-81.8	-1,043.3	86.2	40.7	45.53	1.894	Advise and Monitor	
7,700.0	7,602.2	7,693.4	7,587.3	22.8	22.9	36.52	-82.0	-1,044.3	86.4	40.8	45.57	1.895	Advise and Monitor	
7,790.0	7,691.0	7,783.3	7,675.3	23.2	23.3	35.56	-84.6	-1,062.8	89.9	43.7	46.26	1.944	Advise and Monitor	
7,800.0	7,700.8	7,793.3	7,685.0	23.2	23.3	35.39	-84.9	-1,064.9	90.5	44.1	46.34	1.953	Advise and Monitor	
7,885.0	7,785.1	7,878.1	7,767.9	23.6	23.6	33.62	-87.4	-1,082.3	96.3	49.3	46.99	2.048		
7,900.0	7,800.0	7,893.0	7,782.5	23.6	23.7	33.24	-87.9	-1,085.4	97.5	50.4	47.11	2.070		
7,980.0	7,879.6	7,972.5	7,860.3	23.9	24.0	31.05	-90.2	-1,101.8	105.4	57.7	47.70	2.209		
8,000.0	7,899.5	7,992.3	7,879.7	24.0	24.1	30.46	-90.8	-1,105.8	107.7	59.8	47.84	2.250		
8,075.0	7,974.4	8,066.6	7,952.3	24.3	24.3	28.18	-93.0	-1,121.1	117.4	69.0	48.38	2.427		
8,100.0	7,999.3	8,091.2	7,976.4	24.4	24.4	27.42	-93.7	-1,126.2	121.1	72.5	48.56	2.494		
8,170.0	8,069.3	8,160.1	8,043.8	24.7	24.7	25.30	-95.7	-1,140.4	132.5	83.5	49.04	2.703		
8,200.0	8,099.3	8,189.5	8,072.6	24.8	24.8	24.42	-96.6	-1,146.4	138.0	88.7	49.25	2.801		
8,223.7	8,123.0	8,212.7	8,095.3	24.9	24.9	-76.98	-97.3	-1,151.2	142.5	93.1	49.39	2.885		
8,265.0	8,164.3	8,253.1	8,134.8	25.0	25.1	-78.15	-98.4	-1,159.5	150.5	100.9	49.62	3.034		
8,300.0	8,199.3	8,287.4	8,168.3	25.1	25.2	-79.05	-99.4	-1,166.6	157.4	107.6	49.83	3.159		
8,360.0	8,259.3	8,346.1	8,225.7	25.3	25.4	-80.43	-101.2	-1,178.6	169.3	119.1	50.18	3.374		
8,400.0	8,299.3	8,385.2	8,264.0	25.4	25.6	-81.25	-102.3	-1,186.7	177.2	126.8	50.42	3.515		
8,455.0	8,354.3	8,439.0	8,316.6	25.6	25.8	-82.26	-103.9	-1,197.8	188.2	137.5	50.75	3.709		
8,500.0	8,399.3	8,483.0	8,359.7	25.7	25.9	-83.00	-105.2	-1,206.8	197.3	146.2	51.03	3.866		
8,550.0	8,449.3	8,531.9	8,407.5	25.9	26.1	-83.75	-106.6	-1,216.9	207.3	156.0	51.34	4.038		
8,600.0	8,499.3	8,580.8	8,455.3	26.0	26.3	-84.43	-108.1	-1,227.0	217.4	165.8	51.65	4.210		
8,645.0	8,544.3	8,624.8	8,498.4	26.1	26.5	-84.99	-109.4	-1,236.0	226.5	174.6	51.93	4.362		
8,700.0	8,599.3	8,678.6	8,551.0	26.3	26.7	-85.61	-110.9	-1,247.1	237.7	185.4	52.28	4.546		
8,740.0	8,639.3	8,717.8	8,589.3	26.4	26.8	-86.03	-112.1	-1,255.1	245.8	193.3	52.54	4.679		
8,800.0	8,699.3	8,776.5	8,646.7	26.6	27.0	-86.61	-113.8	-1,267.2	258.0	205.1	52.93	4.876		
8,835.0	8,734.3	8,810.7	8,680.2	26.7	27.2	-86.93	-114.8	-1,274.3	265.2	212.0	53.15	4.989		
8,900.0	8,799.3	8,874.3	8,742.4	26.9	27.4	-87.46	-116.7	-1,287.4	278.5	224.9	53.58	5.197		
8,930.0	8,829.3	8,903.6	8,771.1	27.0	27.5	-87.70	-117.6	-1,293.4	284.6	230.8	53.77	5.293		
9,000.0	8,899.3	8,972.1	8,838.0	27.2	27.8	-88.20	-119.6	-1,307.5	298.9	244.7	54.23	5.512		
9,025.0	8,924.3	8,996.5	8,862.0	27.3	27.9	-88.37	-120.3	-1,312.5	304.1	249.7	54.40	5.589		
9,100.0	8,999.3	9,069.9	8,933.7	27.5	28.2	-88.84	-122.4	-1,327.6	319.5	264.6	54.90	5.819		
9,120.0	9,019.3	9,089.5	8,952.9	27.6	28.2	-88.96	-123.0	-1,331.6	323.6	268.5	55.03	5.880		
9,200.0	9,099.3	9,175.9	9,037.5	27.8	28.6	-89.43	-125.4	-1,348.6	339.3	283.6	55.63	6.099		
9,215.0	9,114.3	9,192.6	9,054.0	27.9	28.6	-89.51	-125.9	-1,351.6	341.9	286.2	55.74	6.134		
9,300.0	9,199.3	9,287.9	9,148.1	28.2	29.0	-89.89	-128.0	-1,366.9	355.6	299.2	56.41	6.303		
9,310.0	9,209.3	9,299.2	9,159.2	28.2	29.1	-89.92	-128.3	-1,368.5	357.0	300.5	56.49	6.320		
9,400.0	9,299.3	9,401.3	9,260.6	28.5	29.5	-90.21	-130.1	-1,381.0	368.0	310.9	57.16	6.439		
9,405.0	9,304.3	9,407.0	9,266.2	28.5	29.5	-90.22	-130.2	-1,381.6	368.6	311.4	57.19	6.444		
9,500.0	9,399.3	9,515.7	9,374.5	28.8	29.9	-90.41	-131.5	-1,390.8	376.6	318.8	57.84	6.511		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
9,595.0	9,494.3	9,624.9	9,483.6	29.1	30.3	-90.52	-132.2	-1,396.0	381.1	322.7	58.41	6.524	
9,600.0	9,499.3	9,630.7	9,489.3	29.1	30.3	-90.52	-132.2	-1,396.1	381.2	322.8	58.44	6.524	
9,690.0	9,589.3	9,730.7	9,589.3	29.4	30.7	-90.54	-132.4	-1,397.1	382.1	323.2	58.89	6.488	
9,700.0	9,599.3	9,740.7	9,599.3	29.4	30.7	-90.54	-132.4	-1,397.1	382.1	323.1	58.96	6.481	
9,785.0	9,684.3	9,825.7	9,684.3	29.7	31.0	-90.54	-132.4	-1,397.1	382.1	322.6	59.49	6.422	
9,800.0	9,699.3	9,840.7	9,699.3	29.7	31.0	-90.54	-132.4	-1,397.1	382.1	322.5	59.59	6.412	
9,880.0	9,779.3	9,920.7	9,779.3	30.0	31.3	-90.54	-132.4	-1,397.1	382.1	322.0	60.09	6.358	
9,900.0	9,799.3	9,940.7	9,799.3	30.0	31.3	-90.54	-132.4	-1,397.1	382.1	321.9	60.22	6.345	
9,975.0	9,874.3	10,015.7	9,874.3	30.3	31.6	-90.54	-132.4	-1,397.1	382.1	321.4	60.69	6.295	
10,000.0	9,899.3	10,040.7	9,899.3	30.4	31.6	-90.54	-132.4	-1,397.1	382.1	321.2	60.85	6.279	
10,070.0	9,969.3	10,110.7	9,969.3	30.6	31.8	-90.54	-132.4	-1,397.1	382.1	320.8	61.30	6.233	
10,100.0	9,999.3	10,140.7	9,999.3	30.7	31.9	-90.54	-132.4	-1,397.1	382.1	320.6	61.49	6.214	
10,153.2	10,052.5	10,193.9	10,052.5	30.8	32.1	-90.54	-132.4	-1,397.1	382.1	320.3	61.74	6.189	
10,165.0	10,064.3	10,205.7	10,064.3	30.8	32.1	92.93	-132.4	-1,397.1	382.1	320.3	61.78	6.185	
10,175.0	10,074.3	10,215.6	10,074.3	30.8	32.2	92.98	-132.4	-1,397.1	382.1	320.3	61.81	6.182	
10,200.0	10,099.2	10,240.6	10,099.2	30.8	32.2	93.24	-132.4	-1,397.1	382.2	320.3	61.90	6.175	
10,225.0	10,124.0	10,265.4	10,124.0	30.8	32.3	93.67	-132.4	-1,397.1	382.4	320.4	61.99	6.168	
10,250.0	10,148.6	10,290.0	10,148.6	30.8	32.4	94.28	-132.4	-1,397.1	382.7	320.6	62.10	6.163	
10,260.0	10,158.4	10,299.8	10,158.4	30.8	32.4	94.57	-132.4	-1,397.1	382.9	320.7	62.14	6.161	
10,275.0	10,173.0	10,314.3	10,173.0	30.8	32.5	95.05	-132.4	-1,397.1	383.2	321.0	62.21	6.160	
10,300.0	10,197.0	10,338.4	10,197.0	30.8	32.5	95.96	-132.4	-1,397.1	383.9	321.5	62.32	6.160	
10,325.0	10,220.6	10,362.0	10,220.6	30.8	32.6	96.99	-132.4	-1,397.1	384.8	322.4	62.44	6.163	
10,350.0	10,243.8	10,387.0	10,243.8	30.8	32.6	98.15	-132.9	-1,397.1	386.1	323.6	62.48	6.180	
10,355.0	10,248.3	10,392.1	10,250.7	30.9	32.6	98.38	-133.2	-1,397.1	386.4	323.9	62.48	6.184	
10,375.0	10,266.4	10,412.7	10,271.2	30.9	32.6	99.30	-134.8	-1,397.1	387.7	325.2	62.48	6.205	
10,400.0	10,288.5	10,438.9	10,297.2	30.9	32.7	100.43	-138.2	-1,397.1	389.5	327.0	62.45	6.236	
10,425.0	10,309.9	10,465.7	10,323.5	30.9	32.7	101.54	-143.2	-1,397.0	391.5	329.1	62.41	6.273	
10,450.0	10,330.6	10,493.1	10,350.2	30.9	32.7	102.62	-149.7	-1,397.0	393.8	331.4	62.33	6.317	
10,475.0	10,350.5	10,521.1	10,377.0	30.9	32.7	103.68	-158.0	-1,396.9	396.2	334.0	62.23	6.367	
10,500.0	10,369.6	10,549.9	10,403.9	31.0	32.7	104.70	-168.1	-1,396.9	398.9	336.8	62.10	6.423	
10,525.0	10,387.9	10,579.3	10,430.7	31.0	32.7	105.69	-180.1	-1,396.8	401.7	339.7	61.93	6.486	
10,545.0	10,401.8	10,603.4	10,452.1	31.0	32.7	106.44	-191.2	-1,396.7	404.0	342.2	61.77	6.541	
10,550.0	10,405.2	10,609.5	10,457.4	31.0	32.7	106.63	-194.1	-1,396.7	404.6	342.9	61.73	6.555	
10,575.0	10,421.6	10,640.4	10,483.8	31.0	32.8	107.53	-210.2	-1,396.6	407.7	346.2	61.49	6.630	
10,600.0	10,436.9	10,672.1	10,509.8	31.0	32.8	108.38	-228.4	-1,396.5	410.8	349.5	61.22	6.710	
10,625.0	10,451.2	10,704.5	10,535.0	31.1	32.8	109.17	-248.8	-1,396.3	413.9	353.0	60.91	6.795	
10,640.0	10,459.3	10,724.4	10,549.7	31.1	32.8	109.61	-262.1	-1,396.3	415.8	355.1	60.72	6.848	
10,650.0	10,464.4	10,737.8	10,559.4	31.1	32.9	109.90	-271.4	-1,396.2	417.1	356.5	60.58	6.884	
10,675.0	10,476.5	10,771.8	10,582.6	31.1	32.9	110.56	-296.3	-1,396.0	420.2	360.0	60.23	6.977	
10,700.0	10,487.4	10,806.6	10,604.5	31.1	32.9	111.16	-323.3	-1,395.9	423.2	363.4	59.86	7.071	
10,725.0	10,497.1	10,842.1	10,624.7	31.2	33.0	111.67	-352.5	-1,395.7	426.2	366.7	59.49	7.164	
10,735.0	10,500.7	10,856.5	10,632.3	31.2	33.0	111.86	-364.7	-1,395.6	427.3	368.0	59.34	7.201	
10,750.0	10,505.6	10,878.3	10,643.1	31.2	33.0	112.11	-383.7	-1,395.5	429.0	369.9	59.13	7.256	
10,775.0	10,512.9	10,915.2	10,659.2	31.2	33.0	112.45	-416.8	-1,395.3	431.7	372.9	58.79	7.343	
10,800.0	10,518.9	10,952.6	10,673.0	31.2	33.1	112.70	-451.6	-1,395.0	434.1	375.6	58.48	7.423	
10,825.0	10,523.6	10,990.5	10,684.1	31.3	33.1	112.85	-487.8	-1,394.8	436.4	378.1	58.22	7.495	
10,830.0	10,524.4	10,998.1	10,686.0	31.3	33.1	112.87	-495.2	-1,394.7	436.8	378.6	58.18	7.507	
10,850.0	10,527.0	11,028.8	10,692.4	31.3	33.2	112.90	-525.1	-1,394.5	438.4	380.3	58.03	7.554	
10,875.0	10,529.2	11,067.3	10,697.7	31.3	33.2	112.85	-563.3	-1,394.3	440.1	382.2	57.90	7.601	
10,900.0	10,530.0	11,106.1	10,699.9	31.3	33.2	112.69	-602.0	-1,394.1	441.6	383.7	57.85	7.632	
10,903.2	10,530.0	11,111.1	10,700.0	31.3	33.2	112.67	-607.0	-1,394.0	441.7	383.9	57.85	7.635	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
10,925.0	10,530.0	11,133.8	10,700.0	31.4	33.3	112.60	-629.7	-1,393.9	442.7	384.8	57.92	7.644
11,000.0	10,530.0	11,208.8	10,700.0	31.4	33.4	112.46	-704.7	-1,393.4	445.0	386.9	58.15	7.653
11,020.0	10,530.0	11,228.8	10,700.0	31.5	33.4	112.44	-724.7	-1,393.3	445.3	387.1	58.21	7.650
11,057.1	10,530.0	11,265.8	10,700.0	31.5	33.4	112.43	-761.8	-1,393.0	445.6	387.2	58.33	7.639
11,100.0	10,530.0	11,308.8	10,700.0	31.6	33.5	112.43	-804.7	-1,392.7	445.6	387.1	58.45	7.622
11,115.0	10,530.0	11,323.8	10,700.0	31.6	33.5	112.43	-819.7	-1,392.6	445.6	387.1	58.50	7.616
11,200.0	10,530.0	11,408.8	10,700.0	31.7	33.6	112.43	-904.7	-1,392.1	445.6	386.8	58.78	7.580
11,210.0	10,530.0	11,418.8	10,700.0	31.7	33.6	112.43	-914.7	-1,392.0	445.6	386.7	58.81	7.576
11,300.0	10,530.0	11,508.8	10,700.0	31.9	33.8	112.43	-1,004.7	-1,391.4	445.6	386.4	59.14	7.534
11,305.0	10,530.0	11,513.8	10,700.0	31.9	33.8	112.43	-1,009.7	-1,391.4	445.6	386.4	59.16	7.531
11,400.0	10,530.0	11,608.8	10,700.0	32.1	34.0	112.43	-1,104.7	-1,390.8	445.6	386.0	59.54	7.483
11,495.0	10,530.0	11,703.8	10,700.0	32.2	34.1	112.43	-1,199.7	-1,390.2	445.6	385.6	59.96	7.431
11,500.0	10,530.0	11,708.8	10,700.0	32.3	34.1	112.43	-1,204.7	-1,390.1	445.6	385.6	59.98	7.429
11,590.0	10,530.0	11,798.8	10,700.0	32.4	34.3	112.43	-1,294.7	-1,389.6	445.6	385.2	60.40	7.376
11,600.0	10,530.0	11,808.8	10,700.0	32.5	34.3	112.43	-1,304.7	-1,389.5	445.6	385.1	60.45	7.370
11,685.0	10,530.0	11,893.8	10,700.0	32.7	34.5	112.43	-1,389.7	-1,388.9	445.6	384.7	60.88	7.318
11,700.0	10,530.0	11,908.8	10,700.0	32.7	34.6	112.43	-1,404.7	-1,388.8	445.6	384.6	60.96	7.309
11,780.0	10,530.0	11,988.8	10,700.0	32.9	34.7	112.43	-1,484.7	-1,388.3	445.6	384.2	61.39	7.257
11,800.0	10,530.0	12,008.8	10,700.0	32.9	34.8	112.43	-1,504.7	-1,388.2	445.6	384.1	61.50	7.245
11,875.0	10,530.0	12,083.8	10,700.0	33.1	35.0	112.43	-1,579.7	-1,387.7	445.6	383.6	61.93	7.194
11,900.0	10,530.0	12,108.8	10,700.0	33.2	35.0	112.43	-1,604.7	-1,387.5	445.6	383.5	62.08	7.177
11,970.0	10,530.0	12,178.8	10,700.0	33.4	35.2	112.43	-1,674.7	-1,387.1	445.6	383.1	62.50	7.129
12,000.0	10,530.0	12,208.8	10,700.0	33.5	35.3	112.43	-1,704.7	-1,386.9	445.6	382.9	62.69	7.108
12,065.0	10,530.0	12,273.8	10,700.0	33.7	35.5	112.43	-1,769.7	-1,386.5	445.6	382.5	63.10	7.061
12,100.0	10,530.0	12,308.8	10,700.0	33.8	35.6	112.43	-1,804.7	-1,386.2	445.6	382.2	63.33	7.036
12,160.0	10,530.0	12,368.8	10,700.0	34.0	35.7	112.43	-1,864.7	-1,385.9	445.6	381.8	63.73	6.992
12,200.0	10,530.0	12,408.8	10,700.0	34.1	35.9	112.43	-1,904.7	-1,385.6	445.6	381.6	64.00	6.962
12,255.0	10,530.0	12,463.8	10,700.0	34.3	36.0	112.43	-1,959.7	-1,385.2	445.6	381.2	64.38	6.921
12,300.0	10,530.0	12,508.8	10,700.0	34.4	36.2	112.43	-2,004.7	-1,384.9	445.6	380.9	64.70	6.887
12,350.0	10,530.0	12,558.8	10,700.0	34.6	36.3	112.43	-2,054.7	-1,384.6	445.6	380.5	65.06	6.848
12,400.0	10,530.0	12,608.8	10,700.0	34.8	36.5	112.43	-2,104.7	-1,384.3	445.6	380.1	65.43	6.810
12,445.0	10,530.0	12,653.8	10,700.0	34.9	36.6	112.43	-2,149.7	-1,384.0	445.6	379.8	65.77	6.775
12,500.0	10,530.0	12,708.8	10,700.0	35.1	36.8	112.43	-2,204.7	-1,383.6	445.6	379.4	66.18	6.733
12,540.0	10,530.0	12,748.8	10,700.0	35.3	36.9	112.43	-2,244.7	-1,383.4	445.6	379.1	66.50	6.701
12,600.0	10,530.0	12,808.8	10,700.0	35.5	37.2	112.43	-2,304.7	-1,383.0	445.6	378.6	66.97	6.654
12,635.0	10,530.0	12,843.8	10,700.0	35.6	37.3	112.43	-2,339.7	-1,382.8	445.6	378.3	67.25	6.626
12,700.0	10,530.0	12,908.8	10,700.0	35.9	37.5	112.43	-2,404.7	-1,382.3	445.6	377.8	67.77	6.574
12,730.0	10,530.0	12,938.8	10,700.0	36.0	37.6	112.43	-2,434.7	-1,382.2	445.6	377.6	68.02	6.550
12,800.0	10,530.0	13,008.8	10,700.0	36.3	37.9	112.43	-2,504.6	-1,381.7	445.6	377.0	68.61	6.495
12,825.0	10,530.0	13,033.8	10,700.0	36.4	38.0	112.43	-2,529.6	-1,381.5	445.6	376.8	68.82	6.474
12,900.0	10,530.0	13,108.8	10,700.0	36.7	38.3	112.43	-2,604.6	-1,381.0	445.6	376.1	69.47	6.414
12,920.0	10,530.0	13,128.8	10,700.0	36.7	38.3	112.43	-2,624.6	-1,380.9	445.6	375.9	69.64	6.398
13,000.0	10,530.0	13,208.8	10,700.0	37.1	38.7	112.43	-2,704.6	-1,380.4	445.6	375.2	70.35	6.334
13,015.0	10,530.0	13,223.8	10,700.0	37.1	38.7	112.43	-2,719.6	-1,380.3	445.6	375.1	70.48	6.322
13,100.0	10,530.0	13,308.8	10,700.0	37.5	39.1	112.43	-2,804.6	-1,379.7	445.6	374.3	71.25	6.254
13,110.0	10,530.0	13,318.8	10,700.0	37.6	39.1	112.43	-2,814.6	-1,379.7	445.6	374.2	71.34	6.246
13,200.0	10,530.0	13,408.8	10,700.0	38.0	39.5	112.43	-2,904.6	-1,379.1	445.6	373.4	72.17	6.174
13,205.0	10,530.0	13,413.8	10,700.0	38.0	39.5	112.43	-2,909.6	-1,379.1	445.6	373.4	72.22	6.170
13,300.0	10,530.0	13,508.8	10,700.0	38.4	39.9	112.43	-3,004.6	-1,378.5	445.6	372.5	73.12	6.094
13,395.0	10,530.0	13,603.8	10,700.0	38.8	40.3	112.43	-3,099.6	-1,377.8	445.6	371.6	74.04	6.019
13,400.0	10,530.0	13,608.8	10,700.0	38.9	40.4	112.43	-3,104.6	-1,377.8	445.6	371.5	74.08	6.015

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,490.0	10,530.0	13,698.8	10,700.0	39.3	40.8	112.43	-3,194.6	-1,377.2	445.6	370.6	74.97	5.944		
13,500.0	10,530.0	13,708.8	10,700.0	39.3	40.8	112.43	-3,204.6	-1,377.2	445.6	370.5	75.07	5.936		
13,585.0	10,530.0	13,793.8	10,700.0	39.7	41.2	112.43	-3,289.6	-1,376.6	445.6	369.7	75.92	5.869		
13,600.0	10,530.0	13,808.8	10,700.0	39.8	41.3	112.43	-3,304.6	-1,376.5	445.6	369.5	76.07	5.858		
13,680.0	10,530.0	13,888.8	10,700.0	40.2	41.6	112.43	-3,384.6	-1,376.0	445.6	368.7	76.89	5.796		
13,700.0	10,530.0	13,908.8	10,700.0	40.3	41.7	112.43	-3,404.6	-1,375.9	445.6	368.5	77.09	5.780		
13,775.0	10,530.0	13,983.8	10,700.0	40.7	42.1	112.43	-3,479.6	-1,375.4	445.6	367.7	77.87	5.722		
13,800.0	10,530.0	14,008.8	10,700.0	40.8	42.2	112.43	-3,504.6	-1,375.2	445.6	367.5	78.13	5.703		
13,870.0	10,530.0	14,078.8	10,700.0	41.1	42.5	112.43	-3,574.6	-1,374.7	445.6	366.7	78.86	5.650		
13,900.0	10,530.0	14,108.8	10,700.0	41.3	42.7	112.43	-3,604.6	-1,374.6	445.6	366.4	79.18	5.628		
13,965.0	10,530.0	14,173.8	10,700.0	41.6	43.0	112.43	-3,669.6	-1,374.1	445.6	365.7	79.87	5.579		
14,000.0	10,530.0	14,208.8	10,700.0	41.8	43.2	112.43	-3,704.6	-1,373.9	445.6	365.3	80.25	5.553		
14,060.0	10,530.0	14,268.8	10,700.0	42.1	43.5	112.43	-3,764.6	-1,373.5	445.6	364.7	80.90	5.508		
14,100.0	10,530.0	14,308.8	10,700.0	42.3	43.7	112.43	-3,804.6	-1,373.3	445.6	364.3	81.33	5.479		
14,155.0	10,530.0	14,363.8	10,700.0	42.6	44.0	112.43	-3,859.6	-1,372.9	445.6	363.7	81.94	5.438		
14,200.0	10,530.0	14,408.8	10,700.0	42.9	44.2	112.43	-3,904.6	-1,372.6	445.6	363.2	82.43	5.406		
14,250.0	10,530.0	14,458.8	10,700.0	43.1	44.5	112.43	-3,954.6	-1,372.3	445.6	362.6	82.99	5.370		
14,300.0	10,530.0	14,508.8	10,700.0	43.4	44.7	112.43	-4,004.6	-1,372.0	445.6	362.1	83.54	5.334		
14,345.0	10,530.0	14,553.8	10,700.0	43.6	45.0	112.43	-4,049.6	-1,371.7	445.6	361.6	84.05	5.302		
14,400.0	10,530.0	14,608.8	10,700.0	43.9	45.2	112.43	-4,104.6	-1,371.3	445.6	360.9	84.67	5.263		
14,440.0	10,530.0	14,648.8	10,700.0	44.2	45.5	112.43	-4,144.6	-1,371.0	445.6	360.5	85.12	5.235		
14,500.0	10,530.0	14,708.8	10,700.0	44.5	45.8	112.43	-4,204.6	-1,370.7	445.6	359.8	85.81	5.193		
14,535.0	10,530.0	14,743.8	10,700.0	44.7	46.0	112.43	-4,239.6	-1,370.4	445.6	359.4	86.21	5.169		
14,600.0	10,530.0	14,808.8	10,700.0	45.0	46.3	112.43	-4,304.6	-1,370.0	445.6	358.6	86.96	5.124		
14,630.0	10,530.0	14,838.8	10,700.0	45.2	46.5	112.43	-4,334.6	-1,369.8	445.6	358.3	87.31	5.104		
14,700.0	10,530.0	14,908.8	10,700.0	45.6	46.9	112.43	-4,404.6	-1,369.4	445.6	357.5	88.12	5.057		
14,725.0	10,530.0	14,933.8	10,700.0	45.7	47.0	112.43	-4,429.6	-1,369.2	445.6	357.2	88.41	5.040		
14,800.0	10,530.0	15,008.8	10,700.0	46.2	47.4	112.43	-4,504.6	-1,368.7	445.6	356.3	89.29	4.990		
14,820.0	10,530.0	15,028.8	10,700.0	46.3	47.5	112.43	-4,524.6	-1,368.6	445.6	356.1	89.53	4.977		
14,900.0	10,530.0	15,108.8	10,700.0	46.7	48.0	112.43	-4,604.6	-1,368.1	445.6	355.1	90.48	4.925		
14,915.0	10,530.0	15,123.8	10,700.0	46.8	48.0	112.43	-4,619.6	-1,368.0	445.6	355.0	90.66	4.915		
15,000.0	10,530.0	15,208.8	10,700.0	47.3	48.5	112.43	-4,704.6	-1,367.4	445.6	353.9	91.67	4.861		
15,010.0	10,530.0	15,218.8	10,700.0	47.4	48.6	112.43	-4,714.6	-1,367.3	445.6	353.8	91.79	4.855		
15,100.0	10,530.0	15,308.8	10,700.0	47.9	49.1	112.43	-4,804.6	-1,366.8	445.6	352.7	92.88	4.798		
15,105.0	10,530.0	15,313.8	10,700.0	47.9	49.1	112.43	-4,809.6	-1,366.7	445.6	352.7	92.94	4.795		
15,200.0	10,530.0	15,408.8	10,700.0	48.5	49.7	112.43	-4,904.6	-1,366.1	445.6	351.5	94.09	4.736		
15,295.0	10,530.0	15,503.8	10,700.0	49.1	50.2	112.43	-4,999.6	-1,365.5	445.6	350.4	95.25	4.678		
15,300.0	10,530.0	15,508.8	10,700.0	49.1	50.2	112.43	-5,004.6	-1,365.5	445.6	350.3	95.31	4.675		
15,390.0	10,530.0	15,598.8	10,700.0	49.6	50.8	112.43	-5,094.6	-1,364.9	445.6	349.2	96.42	4.621		
15,400.0	10,530.0	15,608.8	10,700.0	49.7	50.8	112.43	-5,104.6	-1,364.8	445.6	349.1	96.55	4.616		
15,485.0	10,530.0	15,693.8	10,700.0	50.2	51.3	112.43	-5,189.6	-1,364.3	445.6	348.0	97.60	4.566		
15,500.0	10,530.0	15,708.8	10,700.0	50.3	51.4	112.43	-5,204.6	-1,364.2	445.6	347.8	97.79	4.557		
15,580.0	10,530.0	15,788.8	10,700.0	50.8	51.9	112.43	-5,284.6	-1,363.6	445.6	346.8	98.79	4.511		
15,600.0	10,530.0	15,808.8	10,700.0	50.9	52.0	112.43	-5,304.6	-1,363.5	445.6	346.6	99.04	4.499		
15,675.0	10,530.0	15,883.8	10,700.0	51.4	52.5	112.43	-5,379.6	-1,363.0	445.6	345.6	99.98	4.457		
15,700.0	10,530.0	15,908.8	10,700.0	51.5	52.6	112.43	-5,404.6	-1,362.9	445.6	345.3	100.30	4.443		
15,770.0	10,530.0	15,978.8	10,700.0	51.9	53.0	112.43	-5,474.6	-1,362.4	445.6	344.4	101.18	4.404		
15,800.0	10,530.0	16,008.8	10,700.0	52.1	53.2	112.43	-5,504.6	-1,362.2	445.6	344.1	101.56	4.388		
15,865.0	10,530.0	16,073.8	10,700.0	52.5	53.6	112.43	-5,569.6	-1,361.8	445.6	343.2	102.39	4.352		
15,900.0	10,530.0	16,108.8	10,700.0	52.7	53.8	112.43	-5,604.6	-1,361.6	445.6	342.8	102.83	4.333		
15,960.0	10,530.0	16,168.8	10,700.0	53.1	54.2	112.43	-5,664.6	-1,361.2	445.6	342.0	103.60	4.301		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
16,000.0	10,530.0	16,208.8	10,700.0	53.4	54.4	112.43	-5,704.6	-1,360.9	445.6	341.5	104.11	4.280
16,055.0	10,530.0	16,263.8	10,700.0	53.7	54.8	112.43	-5,759.6	-1,360.6	445.6	340.8	104.82	4.251
16,100.0	10,530.0	16,308.8	10,700.0	54.0	55.0	112.43	-5,804.6	-1,360.3	445.6	340.2	105.40	4.228
16,150.0	10,530.0	16,358.8	10,700.0	54.3	55.3	112.43	-5,854.6	-1,359.9	445.6	339.6	106.05	4.202
16,200.0	10,530.0	16,408.8	10,700.0	54.6	55.7	112.43	-5,904.6	-1,359.6	445.6	338.9	106.69	4.177
16,245.0	10,530.0	16,453.8	10,700.0	54.9	55.9	112.43	-5,949.6	-1,359.3	445.6	338.4	107.28	4.154
16,300.0	10,530.0	16,508.8	10,700.0	55.3	56.3	112.43	-6,004.6	-1,359.0	445.6	337.6	107.99	4.126
16,340.0	10,530.0	16,548.8	10,700.0	55.5	56.5	112.43	-6,044.6	-1,358.7	445.6	337.1	108.52	4.107
16,400.0	10,530.0	16,608.8	10,700.0	55.9	56.9	112.43	-6,104.6	-1,358.3	445.6	336.3	109.30	4.077
16,435.0	10,530.0	16,643.8	10,700.0	56.1	57.1	112.43	-6,139.6	-1,358.1	445.6	335.9	109.76	4.060
16,500.0	10,530.0	16,708.8	10,700.0	56.5	57.5	112.43	-6,204.6	-1,357.7	445.6	335.0	110.61	4.029
16,530.0	10,530.0	16,738.8	10,700.0	56.7	57.7	112.43	-6,234.6	-1,357.5	445.6	334.6	111.01	4.014
16,600.0	10,530.0	16,808.8	10,700.0	57.2	58.2	112.43	-6,304.6	-1,357.0	445.6	333.7	111.93	3.981
16,625.0	10,530.0	16,833.8	10,700.0	57.3	58.3	112.43	-6,329.6	-1,356.9	445.6	333.4	112.26	3.970
16,700.0	10,530.0	16,908.8	10,700.0	57.8	58.8	112.43	-6,404.6	-1,356.4	445.6	332.4	113.25	3.935
16,720.0	10,530.0	16,928.8	10,700.0	58.0	58.9	112.43	-6,424.6	-1,356.2	445.6	332.1	113.52	3.926
16,800.0	10,530.0	17,008.8	10,700.0	58.5	59.4	112.43	-6,504.6	-1,355.7	445.6	331.1	114.58	3.889
16,815.0	10,530.0	17,023.8	10,700.0	58.6	59.5	112.43	-6,519.6	-1,355.6	445.6	330.9	114.78	3.883
16,900.0	10,530.0	17,108.8	10,700.0	59.1	60.1	112.42	-6,604.6	-1,355.1	445.6	329.7	115.91	3.845
16,910.0	10,530.0	17,118.8	10,700.0	59.2	60.1	112.42	-6,614.6	-1,355.0	445.6	329.6	116.05	3.840
17,000.0	10,530.0	17,208.8	10,700.0	59.8	60.7	112.42	-6,704.6	-1,354.4	445.6	328.4	117.25	3.801
17,005.0	10,530.0	17,213.8	10,700.0	59.8	60.7	112.42	-6,709.6	-1,354.4	445.6	328.3	117.32	3.799
17,100.0	10,530.0	17,308.8	10,700.0	60.4	61.4	112.42	-6,804.6	-1,353.8	445.6	327.0	118.60	3.758
17,195.0	10,530.0	17,403.8	10,700.0	61.1	62.0	112.42	-6,899.6	-1,353.2	445.6	325.8	119.88	3.718
17,200.0	10,530.0	17,408.8	10,700.0	61.1	62.0	112.42	-6,904.6	-1,353.1	445.6	325.7	119.94	3.715
17,290.0	10,530.0	17,498.8	10,700.0	61.7	62.6	112.42	-6,994.6	-1,352.5	445.6	324.5	121.16	3.678
17,300.0	10,530.0	17,508.8	10,700.0	61.8	62.7	112.42	-7,004.6	-1,352.5	445.6	324.4	121.30	3.674
17,385.0	10,530.0	17,593.8	10,700.0	62.3	63.2	112.42	-7,089.6	-1,351.9	445.6	323.2	122.45	3.639
17,400.0	10,530.0	17,608.8	10,700.0	62.4	63.3	112.42	-7,104.6	-1,351.8	445.6	323.0	122.65	3.633
17,480.0	10,530.0	17,688.8	10,700.0	63.0	63.8	112.42	-7,184.5	-1,351.3	445.6	321.9	123.74	3.601
17,500.0	10,530.0	17,708.8	10,700.0	63.1	64.0	112.42	-7,204.5	-1,351.2	445.6	321.6	124.01	3.594
17,575.0	10,530.0	17,783.8	10,700.0	63.6	64.5	112.42	-7,279.5	-1,350.7	445.7	320.6	125.04	3.564
17,600.0	10,530.0	17,808.8	10,700.0	63.8	64.6	112.42	-7,304.5	-1,350.5	445.7	320.3	125.38	3.554
17,670.0	10,530.0	17,878.8	10,700.0	64.2	65.1	112.42	-7,374.5	-1,350.1	445.7	319.3	126.34	3.527
17,700.0	10,530.0	17,908.8	10,700.0	64.4	65.3	112.42	-7,404.5	-1,349.9	445.7	318.9	126.75	3.516
17,765.0	10,530.0	17,973.8	10,700.0	64.9	65.7	112.42	-7,469.5	-1,349.5	445.7	318.0	127.64	3.491
17,800.0	10,530.0	18,008.8	10,700.0	65.1	66.0	112.42	-7,504.5	-1,349.2	445.7	317.5	128.12	3.478
17,860.0	10,530.0	18,068.8	10,700.0	65.5	66.4	112.42	-7,564.5	-1,348.8	445.7	316.7	128.95	3.456
17,900.0	10,530.0	18,108.8	10,700.0	65.8	66.6	112.42	-7,604.5	-1,348.6	445.7	316.2	129.50	3.441
17,955.0	10,530.0	18,163.8	10,700.0	66.2	67.0	112.42	-7,659.5	-1,348.2	445.7	315.4	130.26	3.421
18,000.0	10,530.0	18,208.8	10,700.0	66.5	67.3	112.42	-7,704.5	-1,347.9	445.7	314.8	130.88	3.405
18,050.0	10,530.0	18,258.8	10,700.0	66.8	67.6	112.42	-7,754.5	-1,347.6	445.7	314.1	131.57	3.387
18,100.0	10,530.0	18,308.8	10,700.0	67.1	68.0	112.42	-7,804.5	-1,347.3	445.7	313.4	132.26	3.370
18,145.0	10,530.0	18,353.8	10,700.0	67.4	68.3	112.42	-7,849.5	-1,347.0	445.7	312.8	132.89	3.354
18,200.0	10,530.0	18,408.8	10,700.0	67.8	68.6	112.42	-7,904.5	-1,346.6	445.7	312.0	133.65	3.335
18,240.0	10,530.0	18,448.8	10,700.0	68.1	68.9	112.42	-7,944.5	-1,346.4	445.7	311.5	134.20	3.321
18,300.0	10,530.0	18,508.8	10,700.0	68.5	69.3	112.42	-8,004.5	-1,346.0	445.7	310.6	135.04	3.300
18,335.0	10,530.0	18,543.8	10,700.0	68.7	69.5	112.42	-8,039.5	-1,345.8	445.7	310.1	135.53	3.288
18,400.0	10,530.0	18,608.8	10,700.0	69.2	70.0	112.42	-8,104.5	-1,345.3	445.7	309.2	136.43	3.267
18,430.0	10,530.0	18,638.8	10,700.0	69.4	70.2	112.42	-8,134.5	-1,345.1	445.7	308.8	136.85	3.257
18,500.0	10,530.0	18,708.8	10,700.0	69.9	70.7	112.42	-8,204.5	-1,344.7	445.7	307.8	137.83	3.233

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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 #803Y - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10364-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,525.0	10,530.0	18,733.8	10,700.0	70.0	70.8	112.42	-8,229.5	-1,344.5	445.7	307.5	138.18	3.225	
18,600.0	10,530.0	18,808.8	10,700.0	70.6	71.3	112.42	-8,304.5	-1,344.0	445.7	306.4	139.23	3.201	
18,620.0	10,530.0	18,828.8	10,700.0	70.7	71.5	112.42	-8,324.5	-1,343.9	445.7	306.2	139.51	3.195	
18,700.0	10,530.0	18,908.8	10,700.0	71.3	72.0	112.42	-8,404.5	-1,343.4	445.7	305.0	140.63	3.169	
18,715.0	10,530.0	18,923.8	10,700.0	71.4	72.1	112.42	-8,419.5	-1,343.3	445.7	304.8	140.84	3.164	
18,800.0	10,530.0	19,008.8	10,700.0	71.9	72.7	112.42	-8,504.5	-1,342.7	445.7	303.6	142.04	3.138	
18,810.0	10,530.0	19,018.8	10,700.0	72.0	72.8	112.42	-8,514.5	-1,342.7	445.7	303.5	142.18	3.135	
18,900.0	10,530.0	19,108.8	10,700.0	72.6	73.4	112.42	-8,604.5	-1,342.1	445.7	302.2	143.44	3.107	
18,905.0	10,530.0	19,113.8	10,700.0	72.7	73.4	112.42	-8,609.5	-1,342.1	445.7	302.2	143.51	3.105	
19,000.0	10,530.0	19,208.8	10,700.0	73.3	74.1	112.42	-8,704.5	-1,341.4	445.7	300.8	144.85	3.077	
19,095.0	10,530.0	19,303.8	10,700.0	74.0	74.7	112.42	-8,799.5	-1,340.8	445.7	299.5	146.20	3.048	
19,100.0	10,530.0	19,308.8	10,700.0	74.0	74.8	112.42	-8,804.5	-1,340.8	445.7	299.4	146.27	3.047	
19,190.0	10,530.0	19,398.8	10,700.0	74.7	75.4	112.42	-8,894.5	-1,340.2	445.7	298.1	147.54	3.021	
19,200.0	10,530.0	19,408.8	10,700.0	74.7	75.5	112.42	-8,904.5	-1,340.1	445.7	298.0	147.68	3.018	
19,285.0	10,530.0	19,493.8	10,700.0	75.3	76.0	112.42	-8,989.5	-1,339.6	445.7	296.8	148.89	2.993	
19,300.0	10,530.0	19,508.8	10,700.0	75.4	76.1	112.42	-9,004.5	-1,339.5	445.7	296.6	149.10	2.989	
19,380.0	10,530.0	19,588.8	10,700.0	76.0	76.7	112.42	-9,084.5	-1,339.0	445.7	295.4	150.24	2.967	
19,400.0	10,530.0	19,608.8	10,700.0	76.1	76.8	112.42	-9,104.5	-1,338.8	445.7	295.2	150.52	2.961	
19,475.0	10,530.0	19,683.8	10,700.0	76.6	77.4	112.42	-9,179.5	-1,338.4	445.7	294.1	151.59	2.940	
19,500.0	10,530.0	19,708.8	10,700.0	76.8	77.5	112.42	-9,204.5	-1,338.2	445.7	293.7	151.94	2.933	
19,570.0	10,530.0	19,778.8	10,700.0	77.3	78.0	112.42	-9,274.5	-1,337.7	445.7	292.7	152.94	2.914	
19,600.0	10,530.0	19,808.8	10,700.0	77.5	78.2	112.42	-9,304.5	-1,337.5	445.7	292.3	153.37	2.906	
19,665.0	10,530.0	19,873.8	10,700.0	78.0	78.7	112.42	-9,369.5	-1,337.1	445.7	291.4	154.29	2.889	
19,700.0	10,530.0	19,908.8	10,700.0	78.2	78.9	112.42	-9,404.5	-1,336.9	445.7	290.9	154.79	2.879	
19,760.0	10,530.0	19,968.8	10,700.0	78.6	79.3	112.42	-9,464.5	-1,336.5	445.7	290.0	155.65	2.863	
19,800.0	10,530.0	20,008.8	10,700.0	78.9	79.6	112.42	-9,504.5	-1,336.2	445.7	289.5	156.22	2.853	
19,855.0	10,530.0	20,063.8	10,700.0	79.3	80.0	112.42	-9,559.5	-1,335.9	445.7	288.7	157.01	2.839	
19,900.0	10,530.0	20,108.8	10,700.0	79.6	80.3	112.42	-9,604.5	-1,335.6	445.7	288.0	157.65	2.827	
19,950.0	10,530.0	20,158.8	10,700.0	80.0	80.7	112.42	-9,654.5	-1,335.3	445.7	287.3	158.37	2.814	
20,000.0	10,530.0	20,208.8	10,700.0	80.3	81.0	112.42	-9,704.5	-1,334.9	445.7	286.6	159.09	2.802	
20,045.0	10,530.0	20,253.8	10,700.0	80.7	81.3	112.42	-9,749.5	-1,334.7	445.7	286.0	159.73	2.790	
20,100.0	10,530.0	20,308.8	10,700.0	81.0	81.7	112.42	-9,804.5	-1,334.3	445.7	285.2	160.52	2.777	
20,140.0	10,530.0	20,348.8	10,700.0	81.3	82.0	112.42	-9,844.5	-1,334.0	445.7	284.6	161.09	2.767	
20,200.0	10,530.0	20,408.8	10,700.0	81.8	82.4	112.42	-9,904.5	-1,333.7	445.7	283.7	161.96	2.752	
20,235.0	10,530.0	20,443.8	10,700.0	82.0	82.7	112.42	-9,939.5	-1,333.4	445.7	283.2	162.46	2.743	
20,300.0	10,530.0	20,508.8	10,700.0	82.5	83.1	112.42	-10,004.5	-1,333.0	445.7	282.3	163.40	2.728	
20,330.0	10,530.0	20,538.8	10,700.0	82.7	83.3	112.42	-10,034.5	-1,332.8	445.7	281.9	163.83	2.721	
20,392.7	10,530.0	20,601.5	10,700.0	83.1	83.8	112.42	-10,097.2	-1,332.4	445.7	281.0	164.73	2.706	
20,400.0	10,530.0	20,608.8	10,700.0	83.2	83.8	112.42	-10,104.5	-1,332.4	445.7	280.9	164.84	2.704	
20,425.0	10,530.0	20,633.8	10,700.0	83.4	84.0	112.42	-10,129.5	-1,332.2	445.7	280.5	165.20	2.698	
20,500.0	10,530.0	20,708.8	10,700.0	83.9	84.5	112.42	-10,204.5	-1,331.7	445.7	279.4	166.28	2.680	
20,520.0	10,530.0	20,728.8	10,700.0	84.0	84.7	112.42	-10,224.5	-1,331.6	445.7	279.1	166.56	2.676	
20,520.0	10,530.0	20,728.8	10,700.0	84.0	84.7	112.42	-10,224.5	-1,331.6	445.7	279.1	166.56	2.676	
20,522.7	10,530.0	20,731.5	10,700.0	84.0	84.7	112.42	-10,227.2	-1,331.6	445.7	279.1	166.60	2.675	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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

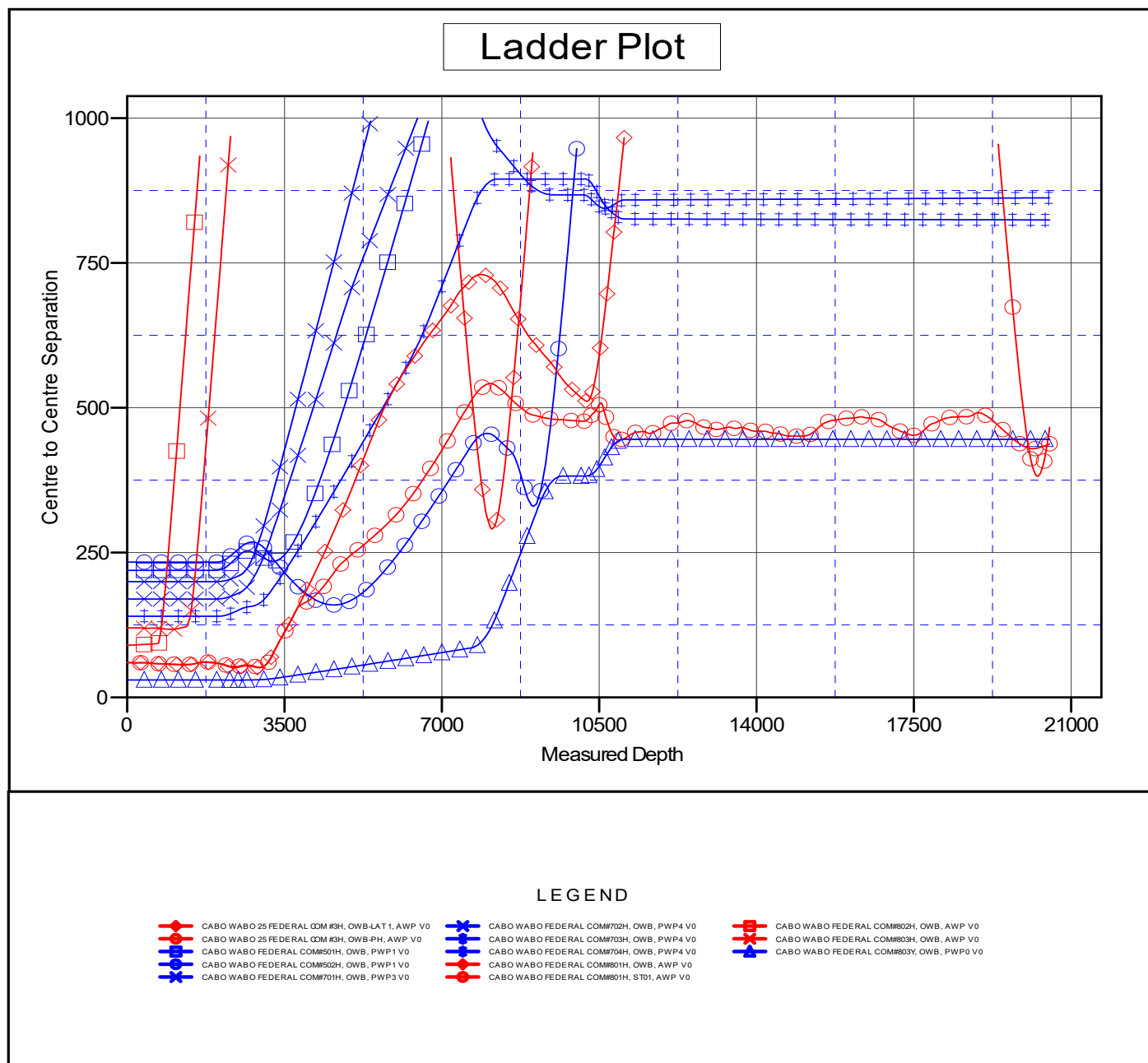
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FEDERAL COM #802Y

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

Grid Convergence at Surface is: 0.21°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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

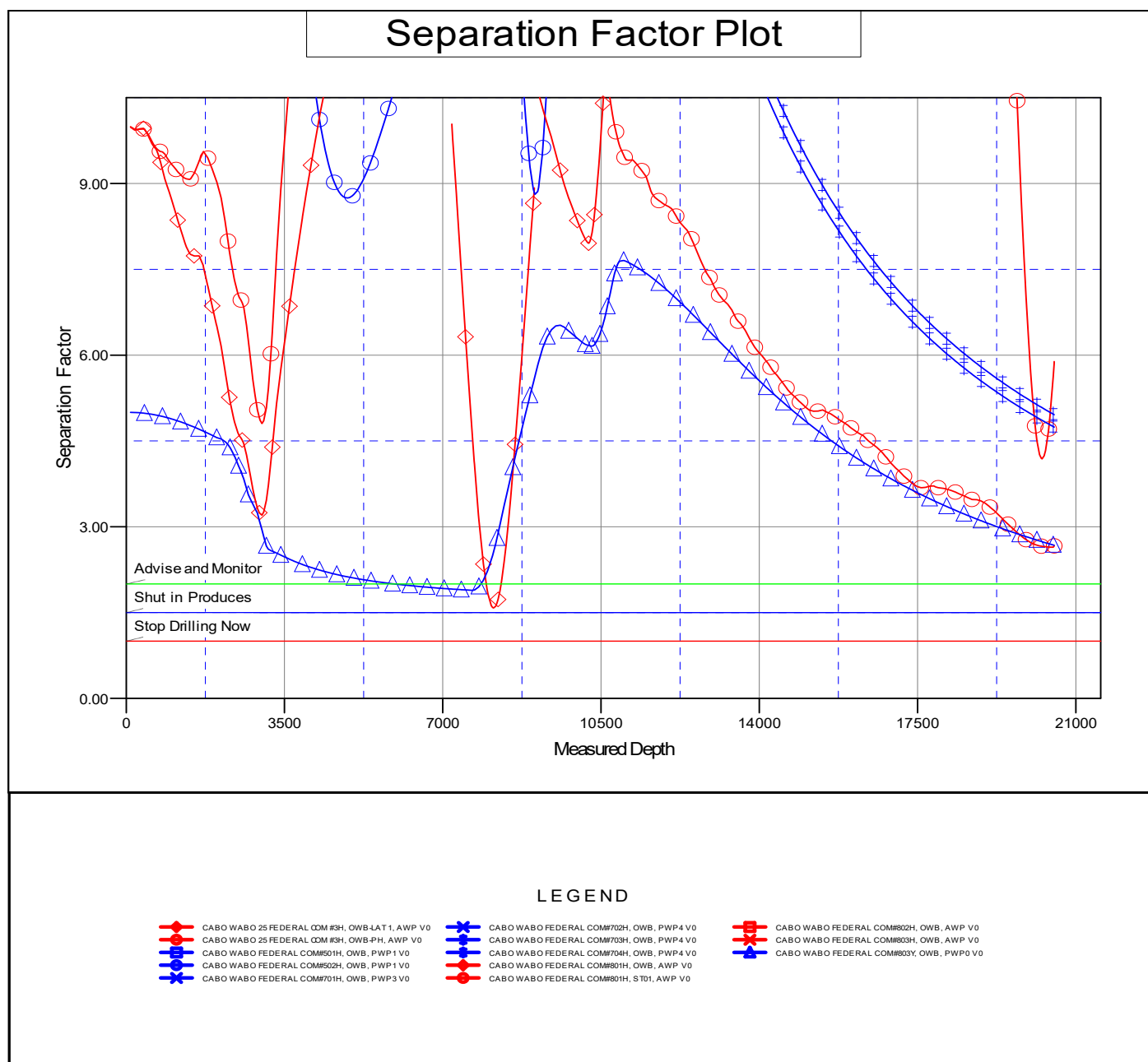
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FEDERAL COM #802Y

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

Grid Convergence at Surface is: 0.21°



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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FEDERAL COM #802H

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 #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

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

Well	CABO WABO FEDERAL COM #802Y					
Well Position	+N/-S	-181.1 usft	Northing:	408,374.66 usft	Latitude:	32° 7' 19.573 N
	+E/-W	4,277.0 usft	Easting:	624,125.49 usft	Longitude:	103° 55' 56.607 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	59.74	47,503.09164681

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	185.14	

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	10,153.2	PWP0 (OWB)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	
3	10,153.2	20,522.7	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 #802Y
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 #802Y	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	
3,144.0	11.50	259.29	3,137.6	48.9	-76.0	2.00	1.07	-14.08	-109.54	
7,648.7	11.50	259.29	7,551.8	-118.1	-958.5	0.00	0.00	0.00	0.00	
8,223.7	0.00	0.00	8,123.0	-128.7	-1,015.0	2.00	-2.00	0.00	180.00	
10,153.2	0.00	0.00	10,052.5	-128.7	-1,015.0	0.00	0.00	0.00	0.00	
10,903.2	90.00	176.55	10,530.0	-605.3	-986.3	12.00	12.00	0.00	176.55	
11,057.1	90.00	179.63	10,530.0	-759.1	-981.2	2.00	0.00	2.00	90.00	
20,392.7	90.00	179.63	10,530.0	-10,094.5	-920.4	0.00	0.00	0.00	0.00	
20,522.7	90.00	179.63	10,530.0	-10,224.5	-919.6	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 #802Y
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 #802Y	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	-6.6	2.00	2.00	0.00	
2,250.0	5.00	345.00	2,249.7	10.5	-2.8	-10.2	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	-14.3	0.00	0.00	0.00	
2,400.0	5.00	345.00	2,399.1	23.2	-6.2	-22.5	0.00	0.00	0.00	
2,500.0	5.00	345.00	2,498.7	31.6	-8.5	-30.7	0.00	0.00	0.00	
2,535.0	5.00	345.00	2,533.6	34.5	-9.3	-33.6	0.00	0.00	0.00	
START DLS 2.00 TFO -109.54										
2,600.0	4.73	329.96	2,598.4	39.6	-11.3	-38.4	2.00	-0.42	-23.14	
2,700.0	4.98	306.35	2,698.0	45.7	-16.9	-44.0	2.00	0.26	-23.61	
2,800.0	5.94	287.76	2,797.6	49.9	-25.3	-47.4	2.00	0.96	-18.59	
2,900.0	7.33	275.22	2,896.9	52.0	-36.6	-48.5	2.00	1.39	-12.53	
3,000.0	8.95	266.93	2,995.9	52.2	-50.7	-47.4	2.00	1.62	-8.30	
3,100.0	10.71	261.24	3,094.4	50.4	-67.7	-44.1	2.00	1.75	-5.69	
3,144.0	11.50	259.29	3,137.6	48.9	-76.0	-41.9	2.00	1.81	-4.44	
START HOLD @ 3144.0 MD										
3,200.0	11.50	259.29	3,192.5	46.8	-87.0	-38.9	0.00	0.00	0.00	
3,300.0	11.50	259.29	3,290.5	43.1	-106.6	-33.4	0.00	0.00	0.00	
3,400.0	11.50	259.29	3,388.5	39.4	-126.2	-28.0	0.00	0.00	0.00	
3,500.0	11.50	259.29	3,486.5	35.7	-145.8	-22.5	0.00	0.00	0.00	
3,600.0	11.50	259.29	3,584.4	32.0	-165.4	-17.1	0.00	0.00	0.00	
3,700.0	11.50	259.29	3,682.4	28.3	-185.0	-11.6	0.00	0.00	0.00	
3,800.0	11.50	259.29	3,780.4	24.6	-204.5	-6.2	0.00	0.00	0.00	
3,900.0	11.50	259.29	3,878.4	20.9	-224.1	-0.7	0.00	0.00	0.00	
4,000.0	11.50	259.29	3,976.4	17.2	-243.7	4.7	0.00	0.00	0.00	
4,100.0	11.50	259.29	4,074.4	13.5	-263.3	10.2	0.00	0.00	0.00	
4,200.0	11.50	259.29	4,172.4	9.8	-282.9	15.6	0.00	0.00	0.00	
4,300.0	11.50	259.29	4,270.4	6.1	-302.5	21.0	0.00	0.00	0.00	
4,400.0	11.50	259.29	4,368.4	2.4	-322.1	26.5	0.00	0.00	0.00	
4,500.0	11.50	259.29	4,466.4	-1.3	-341.7	31.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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	11.50	259.29	4,564.4	-5.0	-361.3	37.4	0.00	0.00	0.00
4,700.0	11.50	259.29	4,662.4	-8.8	-380.9	42.8	0.00	0.00	0.00
4,800.0	11.50	259.29	4,760.4	-12.5	-400.4	48.3	0.00	0.00	0.00
4,900.0	11.50	259.29	4,858.3	-16.2	-420.0	53.7	0.00	0.00	0.00
5,000.0	11.50	259.29	4,956.3	-19.9	-439.6	59.2	0.00	0.00	0.00
5,100.0	11.50	259.29	5,054.3	-23.6	-459.2	64.6	0.00	0.00	0.00
5,200.0	11.50	259.29	5,152.3	-27.3	-478.8	70.1	0.00	0.00	0.00
5,300.0	11.50	259.29	5,250.3	-31.0	-498.4	75.5	0.00	0.00	0.00
5,400.0	11.50	259.29	5,348.3	-34.7	-518.0	81.0	0.00	0.00	0.00
5,500.0	11.50	259.29	5,446.3	-38.4	-537.6	86.4	0.00	0.00	0.00
5,600.0	11.50	259.29	5,544.3	-42.1	-557.2	91.9	0.00	0.00	0.00
5,700.0	11.50	259.29	5,642.3	-45.8	-576.8	97.3	0.00	0.00	0.00
5,800.0	11.50	259.29	5,740.3	-49.5	-596.4	102.7	0.00	0.00	0.00
5,900.0	11.50	259.29	5,838.3	-53.2	-615.9	108.2	0.00	0.00	0.00
6,000.0	11.50	259.29	5,936.3	-56.9	-635.5	113.6	0.00	0.00	0.00
6,100.0	11.50	259.29	6,034.2	-60.7	-655.1	119.1	0.00	0.00	0.00
6,200.0	11.50	259.29	6,132.2	-64.4	-674.7	124.5	0.00	0.00	0.00
6,300.0	11.50	259.29	6,230.2	-68.1	-694.3	130.0	0.00	0.00	0.00
6,400.0	11.50	259.29	6,328.2	-71.8	-713.9	135.4	0.00	0.00	0.00
6,500.0	11.50	259.29	6,426.2	-75.5	-733.5	140.9	0.00	0.00	0.00
6,600.0	11.50	259.29	6,524.2	-79.2	-753.1	146.3	0.00	0.00	0.00
6,700.0	11.50	259.29	6,622.2	-82.9	-772.7	151.8	0.00	0.00	0.00
6,800.0	11.50	259.29	6,720.2	-86.6	-792.3	157.2	0.00	0.00	0.00
6,900.0	11.50	259.29	6,818.2	-90.3	-811.9	162.7	0.00	0.00	0.00
7,000.0	11.50	259.29	6,916.2	-94.0	-831.4	168.1	0.00	0.00	0.00
7,100.0	11.50	259.29	7,014.2	-97.7	-851.0	173.6	0.00	0.00	0.00
7,200.0	11.50	259.29	7,112.2	-101.4	-870.6	179.0	0.00	0.00	0.00
7,300.0	11.50	259.29	7,210.2	-105.1	-890.2	184.5	0.00	0.00	0.00
7,400.0	11.50	259.29	7,308.1	-108.8	-909.8	189.9	0.00	0.00	0.00
7,500.0	11.50	259.29	7,406.1	-112.5	-929.4	195.3	0.00	0.00	0.00
7,600.0	11.50	259.29	7,504.1	-116.3	-949.0	200.8	0.00	0.00	0.00
7,648.7	11.50	259.29	7,551.8	-118.1	-958.5	203.4	0.00	0.00	0.00
START DROP -2.00									
7,700.0	10.47	259.29	7,602.2	-119.9	-968.1	206.1	2.00	-2.00	0.00
7,800.0	8.47	259.29	7,700.8	-122.9	-984.3	210.6	2.00	-2.00	0.00
7,900.0	6.47	259.29	7,800.0	-125.4	-997.1	214.2	2.00	-2.00	0.00
8,000.0	4.47	259.29	7,899.5	-127.1	-1,006.5	216.8	2.00	-2.00	0.00
8,100.0	2.47	259.29	7,999.3	-128.3	-1,012.4	218.4	2.00	-2.00	0.00
8,200.0	0.47	259.29	8,099.3	-128.7	-1,014.9	219.1	2.00	-2.00	0.00
8,223.7	0.00	0.00	8,123.0	-128.7	-1,015.0	219.2	2.00	-2.00	0.00
START HOLD @ 8223.7 MD									
8,300.0	0.00	0.00	8,199.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,299.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,399.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,499.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,599.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,699.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,799.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,899.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,100.0	0.00	0.00	8,999.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,099.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,199.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,299.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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)
9,500.0	0.00	0.00	9,399.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,499.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,599.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,699.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,799.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,899.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
10,100.0	0.00	0.00	9,999.3	-128.7	-1,015.0	219.2	0.00	0.00	0.00
10,153.2	0.00	0.00	10,052.5	-128.7	-1,015.0	219.2	0.00	0.00	0.00
START BUILD 12.00									
10,175.0	2.61	176.55	10,074.3	-129.2	-1,015.0	219.6	12.00	12.00	0.00
10,200.0	5.61	176.55	10,099.2	-131.0	-1,014.9	221.4	12.00	12.00	0.00
10,225.0	8.61	176.55	10,124.0	-134.1	-1,014.7	224.5	12.00	12.00	0.00
10,250.0	11.61	176.55	10,148.6	-138.5	-1,014.5	228.8	12.00	12.00	0.00
10,275.0	14.61	176.55	10,173.0	-144.2	-1,014.1	234.4	12.00	12.00	0.00
10,300.0	17.61	176.55	10,197.0	-151.1	-1,013.7	241.3	12.00	12.00	0.00
10,325.0	20.61	176.55	10,220.6	-159.3	-1,013.2	249.4	12.00	12.00	0.00
10,350.0	23.61	176.55	10,243.8	-168.7	-1,012.6	258.7	12.00	12.00	0.00
10,375.0	26.61	176.55	10,266.4	-179.2	-1,012.0	269.2	12.00	12.00	0.00
10,400.0	29.61	176.55	10,288.5	-191.0	-1,011.3	280.8	12.00	12.00	0.00
10,425.0	32.61	176.55	10,309.9	-203.9	-1,010.5	293.6	12.00	12.00	0.00
10,450.0	35.61	176.55	10,330.6	-217.9	-1,009.7	307.4	12.00	12.00	0.00
10,475.0	38.61	176.55	10,350.5	-232.9	-1,008.8	322.4	12.00	12.00	0.00
10,500.0	41.61	176.55	10,369.6	-249.0	-1,007.8	338.3	12.00	12.00	0.00
10,525.0	44.61	176.55	10,387.9	-266.1	-1,006.8	355.2	12.00	12.00	0.00
10,550.0	47.61	176.55	10,405.2	-284.1	-1,005.7	373.0	12.00	12.00	0.00
10,575.0	50.61	176.55	10,421.6	-302.9	-1,004.5	391.7	12.00	12.00	0.00
10,600.0	53.61	176.55	10,436.9	-322.6	-1,003.4	411.2	12.00	12.00	0.00
10,625.0	56.61	176.55	10,451.2	-343.1	-1,002.1	431.5	12.00	12.00	0.00
10,650.0	59.61	176.55	10,464.4	-364.3	-1,000.8	452.4	12.00	12.00	0.00
10,675.0	62.61	176.55	10,476.5	-386.1	-999.5	474.1	12.00	12.00	0.00
10,700.0	65.61	176.55	10,487.4	-408.6	-998.2	496.3	12.00	12.00	0.00
10,725.0	68.61	176.55	10,497.1	-431.5	-996.8	519.1	12.00	12.00	0.00
10,750.0	71.61	176.55	10,505.6	-455.0	-995.4	542.3	12.00	12.00	0.00
10,775.0	74.61	176.55	10,512.9	-478.9	-993.9	566.0	12.00	12.00	0.00
10,800.0	77.61	176.55	10,518.9	-503.1	-992.5	590.0	12.00	12.00	0.00
10,825.0	80.61	176.55	10,523.6	-527.6	-991.0	614.3	12.00	12.00	0.00
10,850.0	83.61	176.55	10,527.0	-552.3	-989.5	638.7	12.00	12.00	0.00
10,875.0	86.61	176.55	10,529.2	-577.2	-988.0	663.4	12.00	12.00	0.00
10,900.0	89.61	176.55	10,530.0	-602.1	-986.5	688.1	12.00	12.00	0.00
10,903.2	90.00	176.55	10,530.0	-605.3	-986.3	691.3	12.00	12.00	0.00
START DLS 2.00 TFO 90.00									
11,000.0	90.00	178.49	10,530.0	-702.0	-982.1	787.2	2.00	0.00	2.00
11,057.1	90.00	179.63	10,530.0	-759.1	-981.2	843.9	2.00	0.00	2.00
START HOLD @ 11057.1 MD									
11,100.0	90.00	179.63	10,530.0	-802.0	-980.9	886.7	0.00	0.00	0.00
11,200.0	90.00	179.63	10,530.0	-902.0	-980.2	986.2	0.00	0.00	0.00
11,300.0	90.00	179.63	10,530.0	-1,002.0	-979.6	1,085.7	0.00	0.00	0.00
11,400.0	90.00	179.63	10,530.0	-1,102.0	-978.9	1,185.3	0.00	0.00	0.00
11,500.0	90.00	179.63	10,530.0	-1,202.0	-978.3	1,284.8	0.00	0.00	0.00
11,600.0	90.00	179.63	10,530.0	-1,302.0	-977.6	1,384.3	0.00	0.00	0.00
11,700.0	90.00	179.63	10,530.0	-1,402.0	-977.0	1,483.9	0.00	0.00	0.00
11,800.0	90.00	179.63	10,530.0	-1,502.0	-976.3	1,583.4	0.00	0.00	0.00
11,900.0	90.00	179.63	10,530.0	-1,602.0	-975.7	1,683.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	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)
12,000.0	90.00	179.63	10,530.0	-1,702.0	-975.0	1,782.5	0.00	0.00	0.00
12,100.0	90.00	179.63	10,530.0	-1,802.0	-974.4	1,882.0	0.00	0.00	0.00
12,200.0	90.00	179.63	10,530.0	-1,902.0	-973.7	1,981.6	0.00	0.00	0.00
12,300.0	90.00	179.63	10,530.0	-2,002.0	-973.1	2,081.1	0.00	0.00	0.00
12,400.0	90.00	179.63	10,530.0	-2,102.0	-972.4	2,180.6	0.00	0.00	0.00
12,500.0	90.00	179.63	10,530.0	-2,202.0	-971.8	2,280.2	0.00	0.00	0.00
12,600.0	90.00	179.63	10,530.0	-2,302.0	-971.1	2,379.7	0.00	0.00	0.00
12,700.0	90.00	179.63	10,530.0	-2,402.0	-970.5	2,479.3	0.00	0.00	0.00
12,800.0	90.00	179.63	10,530.0	-2,502.0	-969.8	2,578.8	0.00	0.00	0.00
12,900.0	90.00	179.63	10,530.0	-2,602.0	-969.2	2,678.3	0.00	0.00	0.00
13,000.0	90.00	179.63	10,530.0	-2,702.0	-968.5	2,777.9	0.00	0.00	0.00
13,100.0	90.00	179.63	10,530.0	-2,802.0	-967.9	2,877.4	0.00	0.00	0.00
13,200.0	90.00	179.63	10,530.0	-2,902.0	-967.2	2,976.9	0.00	0.00	0.00
13,300.0	90.00	179.63	10,530.0	-3,002.0	-966.6	3,076.5	0.00	0.00	0.00
13,400.0	90.00	179.63	10,530.0	-3,102.0	-965.9	3,176.0	0.00	0.00	0.00
13,500.0	90.00	179.63	10,530.0	-3,202.0	-965.3	3,275.6	0.00	0.00	0.00
13,600.0	90.00	179.63	10,530.0	-3,302.0	-964.6	3,375.1	0.00	0.00	0.00
13,700.0	90.00	179.63	10,530.0	-3,402.0	-964.0	3,474.6	0.00	0.00	0.00
13,800.0	90.00	179.63	10,530.0	-3,502.0	-963.3	3,574.2	0.00	0.00	0.00
13,900.0	90.00	179.63	10,530.0	-3,602.0	-962.7	3,673.7	0.00	0.00	0.00
14,000.0	90.00	179.63	10,530.0	-3,701.9	-962.0	3,773.2	0.00	0.00	0.00
14,100.0	90.00	179.63	10,530.0	-3,801.9	-961.4	3,872.8	0.00	0.00	0.00
14,200.0	90.00	179.63	10,530.0	-3,901.9	-960.7	3,972.3	0.00	0.00	0.00
14,300.0	90.00	179.63	10,530.0	-4,001.9	-960.1	4,071.9	0.00	0.00	0.00
14,400.0	90.00	179.63	10,530.0	-4,101.9	-959.4	4,171.4	0.00	0.00	0.00
14,500.0	90.00	179.63	10,530.0	-4,201.9	-958.8	4,270.9	0.00	0.00	0.00
14,600.0	90.00	179.63	10,530.0	-4,301.9	-958.1	4,370.5	0.00	0.00	0.00
14,700.0	90.00	179.63	10,530.0	-4,401.9	-957.5	4,470.0	0.00	0.00	0.00
14,800.0	90.00	179.63	10,530.0	-4,501.9	-956.8	4,569.5	0.00	0.00	0.00
14,900.0	90.00	179.63	10,530.0	-4,601.9	-956.2	4,669.1	0.00	0.00	0.00
15,000.0	90.00	179.63	10,530.0	-4,701.9	-955.5	4,768.6	0.00	0.00	0.00
15,100.0	90.00	179.63	10,530.0	-4,801.9	-954.9	4,868.2	0.00	0.00	0.00
15,200.0	90.00	179.63	10,530.0	-4,901.9	-954.2	4,967.7	0.00	0.00	0.00
15,300.0	90.00	179.63	10,530.0	-5,001.9	-953.6	5,067.2	0.00	0.00	0.00
15,400.0	90.00	179.63	10,530.0	-5,101.9	-952.9	5,166.8	0.00	0.00	0.00
15,500.0	90.00	179.63	10,530.0	-5,201.9	-952.3	5,266.3	0.00	0.00	0.00
15,600.0	90.00	179.63	10,530.0	-5,301.9	-951.6	5,365.8	0.00	0.00	0.00
15,700.0	90.00	179.63	10,530.0	-5,401.9	-951.0	5,465.4	0.00	0.00	0.00
15,800.0	90.00	179.63	10,530.0	-5,501.9	-950.3	5,564.9	0.00	0.00	0.00
15,900.0	90.00	179.63	10,530.0	-5,601.9	-949.7	5,664.5	0.00	0.00	0.00
16,000.0	90.00	179.63	10,530.0	-5,701.9	-949.0	5,764.0	0.00	0.00	0.00
16,100.0	90.00	179.63	10,530.0	-5,801.9	-948.4	5,863.5	0.00	0.00	0.00
16,200.0	90.00	179.63	10,530.0	-5,901.9	-947.7	5,963.1	0.00	0.00	0.00
16,300.0	90.00	179.63	10,530.0	-6,001.9	-947.0	6,062.6	0.00	0.00	0.00
16,400.0	90.00	179.63	10,530.0	-6,101.9	-946.4	6,162.1	0.00	0.00	0.00
16,500.0	90.00	179.63	10,530.0	-6,201.9	-945.7	6,261.7	0.00	0.00	0.00
16,600.0	90.00	179.63	10,530.0	-6,301.9	-945.1	6,361.2	0.00	0.00	0.00
16,700.0	90.00	179.63	10,530.0	-6,401.9	-944.4	6,460.8	0.00	0.00	0.00
16,800.0	90.00	179.63	10,530.0	-6,501.9	-943.8	6,560.3	0.00	0.00	0.00
16,900.0	90.00	179.63	10,530.0	-6,601.9	-943.1	6,659.8	0.00	0.00	0.00
17,000.0	90.00	179.63	10,530.0	-6,701.9	-942.5	6,759.4	0.00	0.00	0.00
17,100.0	90.00	179.63	10,530.0	-6,801.9	-941.8	6,858.9	0.00	0.00	0.00
17,200.0	90.00	179.63	10,530.0	-6,901.9	-941.2	6,958.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,300.0	90.00	179.63	10,530.0	-7,001.9	-940.5	7,058.0	0.00	0.00	0.00	
17,400.0	90.00	179.63	10,530.0	-7,101.9	-939.9	7,157.5	0.00	0.00	0.00	
17,500.0	90.00	179.63	10,530.0	-7,201.9	-939.2	7,257.1	0.00	0.00	0.00	
17,600.0	90.00	179.63	10,530.0	-7,301.9	-938.6	7,356.6	0.00	0.00	0.00	
17,700.0	90.00	179.63	10,530.0	-7,401.9	-937.9	7,456.1	0.00	0.00	0.00	
17,800.0	90.00	179.63	10,530.0	-7,501.9	-937.3	7,555.7	0.00	0.00	0.00	
17,900.0	90.00	179.63	10,530.0	-7,601.9	-936.6	7,655.2	0.00	0.00	0.00	
18,000.0	90.00	179.63	10,530.0	-7,701.9	-936.0	7,754.7	0.00	0.00	0.00	
18,100.0	90.00	179.63	10,530.0	-7,801.9	-935.3	7,854.3	0.00	0.00	0.00	
18,200.0	90.00	179.63	10,530.0	-7,901.9	-934.7	7,953.8	0.00	0.00	0.00	
18,300.0	90.00	179.63	10,530.0	-8,001.9	-934.0	8,053.4	0.00	0.00	0.00	
18,400.0	90.00	179.63	10,530.0	-8,101.9	-933.4	8,152.9	0.00	0.00	0.00	
18,500.0	90.00	179.63	10,530.0	-8,201.9	-932.7	8,252.4	0.00	0.00	0.00	
18,600.0	90.00	179.63	10,530.0	-8,301.9	-932.1	8,352.0	0.00	0.00	0.00	
18,700.0	90.00	179.63	10,530.0	-8,401.8	-931.4	8,451.5	0.00	0.00	0.00	
18,800.0	90.00	179.63	10,530.0	-8,501.8	-930.8	8,551.0	0.00	0.00	0.00	
18,900.0	90.00	179.63	10,530.0	-8,601.8	-930.1	8,650.6	0.00	0.00	0.00	
19,000.0	90.00	179.63	10,530.0	-8,701.8	-929.5	8,750.1	0.00	0.00	0.00	
19,100.0	90.00	179.63	10,530.0	-8,801.8	-928.8	8,849.7	0.00	0.00	0.00	
19,200.0	90.00	179.63	10,530.0	-8,901.8	-928.2	8,949.2	0.00	0.00	0.00	
19,300.0	90.00	179.63	10,530.0	-9,001.8	-927.5	9,048.7	0.00	0.00	0.00	
19,400.0	90.00	179.63	10,530.0	-9,101.8	-926.9	9,148.3	0.00	0.00	0.00	
19,500.0	90.00	179.63	10,530.0	-9,201.8	-926.2	9,247.8	0.00	0.00	0.00	
19,600.0	90.00	179.63	10,530.0	-9,301.8	-925.6	9,347.3	0.00	0.00	0.00	
19,700.0	90.00	179.63	10,530.0	-9,401.8	-924.9	9,446.9	0.00	0.00	0.00	
19,800.0	90.00	179.63	10,530.0	-9,501.8	-924.3	9,546.4	0.00	0.00	0.00	
19,900.0	90.00	179.63	10,530.0	-9,601.8	-923.6	9,646.0	0.00	0.00	0.00	
20,000.0	90.00	179.63	10,530.0	-9,701.8	-923.0	9,745.5	0.00	0.00	0.00	
20,100.0	90.00	179.63	10,530.0	-9,801.8	-922.3	9,845.0	0.00	0.00	0.00	
20,200.0	90.00	179.63	10,530.0	-9,901.8	-921.7	9,944.6	0.00	0.00	0.00	
20,300.0	90.00	179.63	10,530.0	-10,001.8	-921.0	10,044.1	0.00	0.00	0.00	
20,392.7	90.00	179.63	10,530.0	-10,094.5	-920.4	10,136.4	0.00	0.00	0.00	
START HOLD @ 20392.7 MD										
20,400.0	90.00	179.63	10,530.0	-10,101.8	-920.4	10,143.6	0.00	0.00	0.00	
20,500.0	90.00	179.63	10,530.0	-10,201.8	-919.7	10,243.2	0.00	0.00	0.00	
20,522.7	90.00	179.63	10,530.0	-10,224.5	-919.6	10,265.8	0.00	0.00	0.00	
TD @ 20522.7 MD										

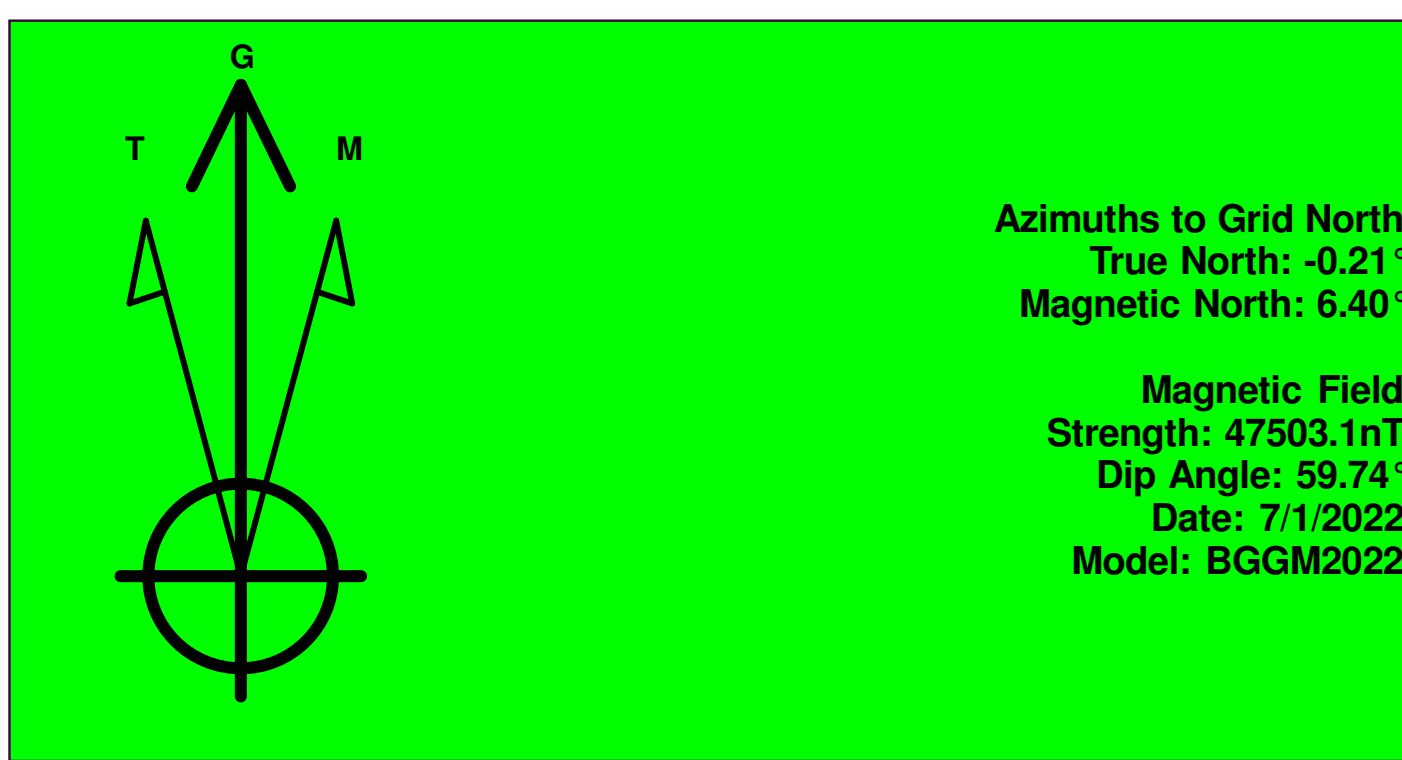
ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well CABO WABO FEDERAL COM #802Y
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 #802Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VT (CABO WABO FED (	0.00	0.00	10,052.5	-128.7	-1,015.0	408,245.91	623,110.45	32° 7' 18.336 N	103° 56' 8.416 W
- plan hits target center									
- Point									
LTP (CABO WABO FED	0.00	0.01	10,530.0	-10,094.5	-920.4	398,280.11	623,205.08	32° 5' 39.708 N	103° 56' 7.743 W
- plan hits target center									
- Point									
PBHL (CABO WABO FE	0.00	359.63	10,530.0	-10,224.5	-919.6	398,150.12	623,205.93	32° 5' 38.421 N	103° 56' 7.739 W
- plan hits target center									
- Rectangle (sides W100.0 H10,068.0 D20.0)									
FTP (CABO WABO FED	0.00	0.00	10,530.0	-128.7	-985.2	408,245.92	623,140.32	32° 7' 18.335 N	103° 56' 8.068 W
- plan misses target center by 198.8usft at 10525.7usft MD (10388.3 TVD, -266.5 N, -1006.7 E)									
- Circle (radius 50.0)									

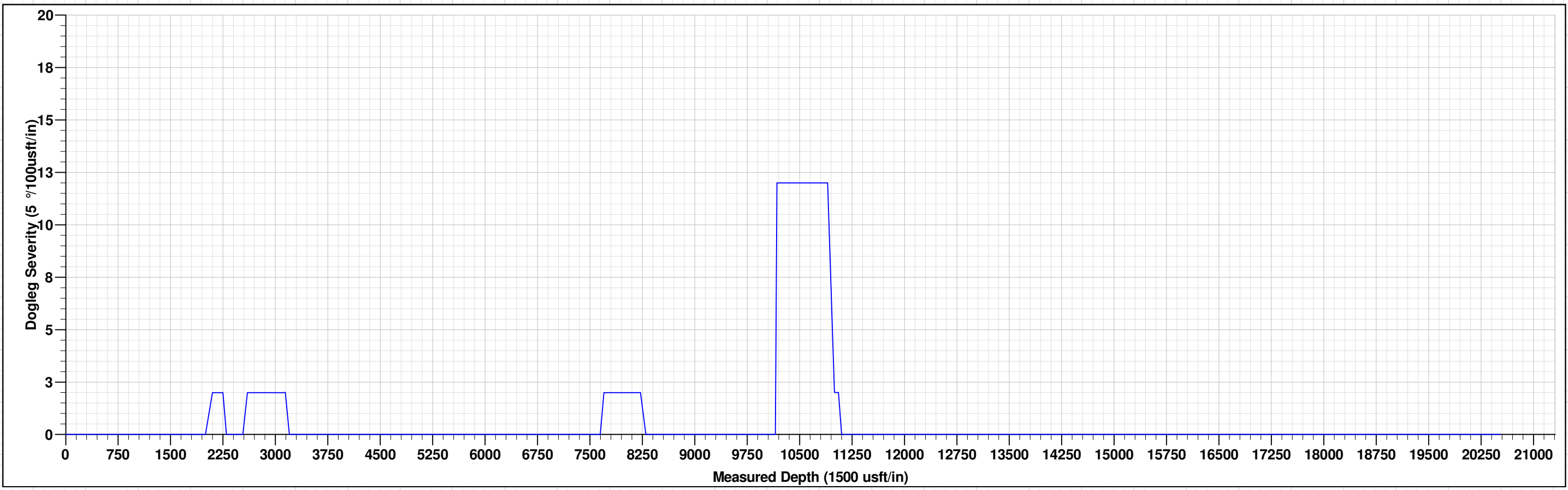
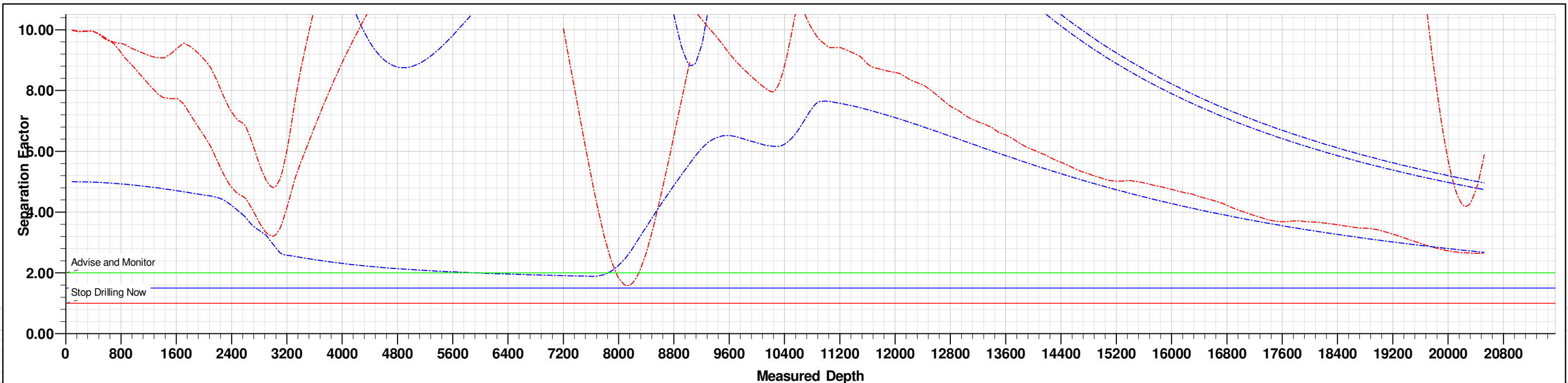
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
2,000.0	2,000.0	0.0	0.0	START NUDGE 2.00
2,250.0	2,249.7	10.5	-2.8	START HOLD @ 2250.0 MD
2,535.0	2,533.6	34.5	-9.3	START DLS 2.00 TFO -109.54
3,144.0	3,137.6	48.9	-76.0	START HOLD @ 3144.0 MD
7,648.7	7,551.8	-118.1	-958.5	START DROP -2.00
8,223.7	8,123.0	-128.7	-1,015.0	START HOLD @ 8223.7 MD
10,153.2	10,052.5	-128.7	-1,015.0	START BUILD 12.00
10,903.2	10,530.0	-605.3	-986.3	START DLS 2.00 TFO 90.00
11,057.1	10,530.0	-759.1	-981.2	START HOLD @ 11057.1 MD
20,392.7	10,530.0	-10,094.5	-920.4	START HOLD @ 20392.7 MD
20,522.7	10,530.0	-10,224.5	-919.6	TD @ 20522.7 MD



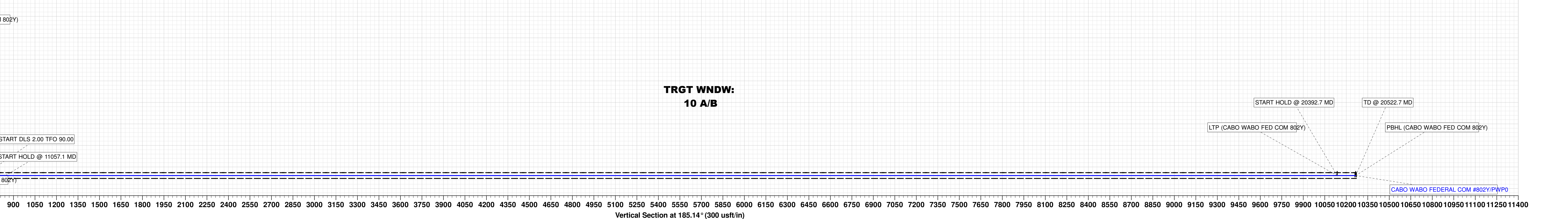
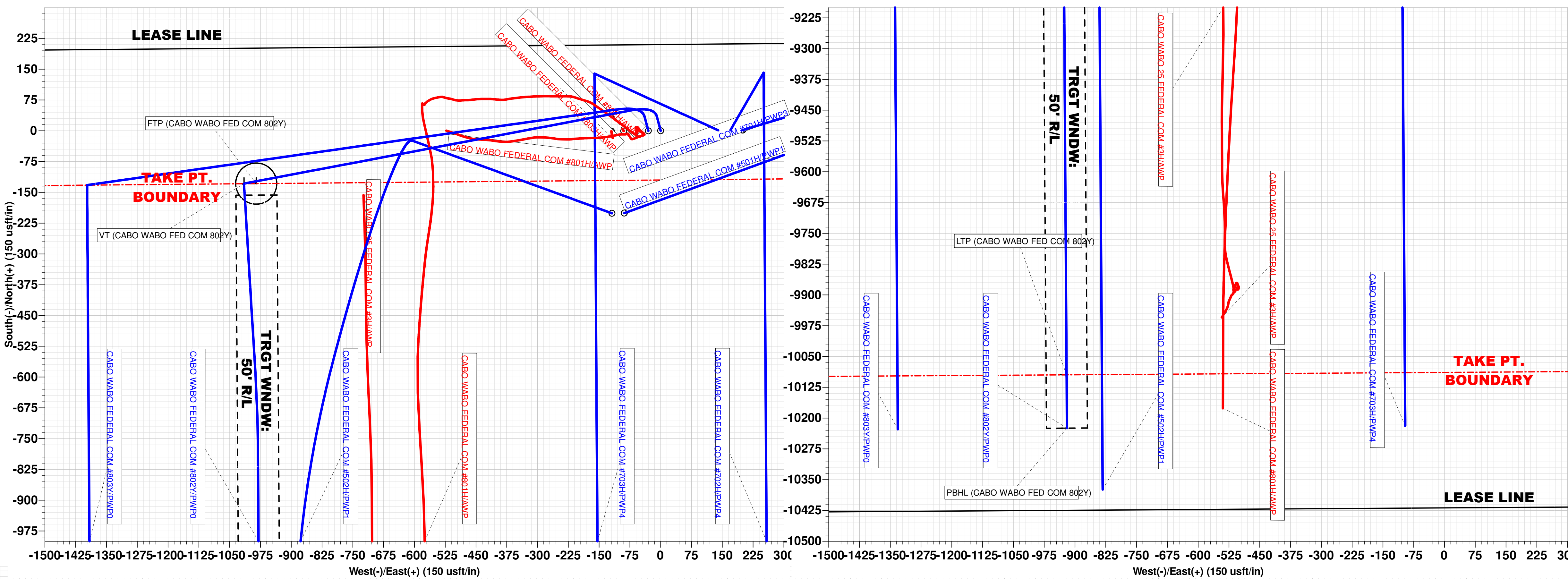
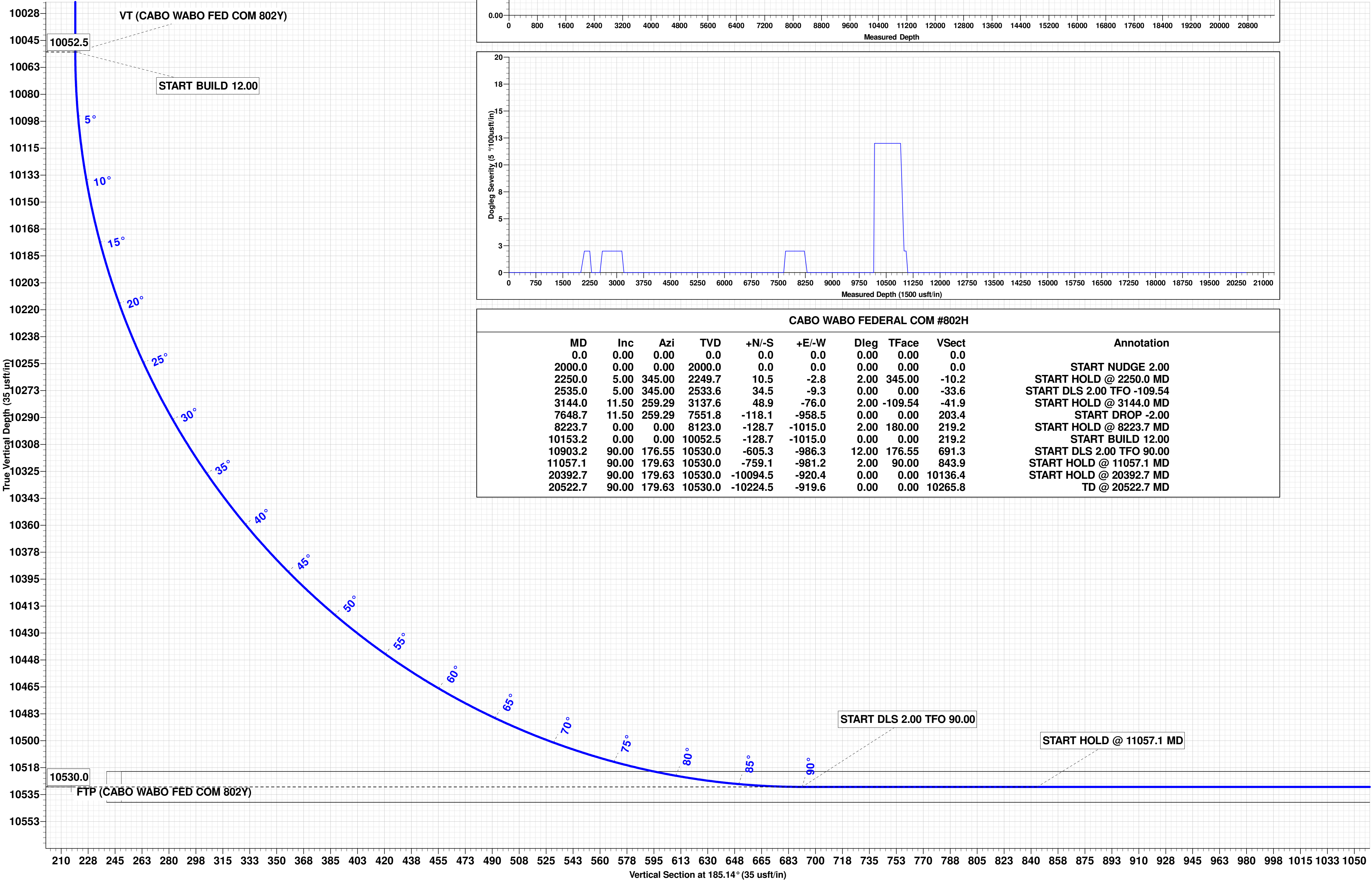
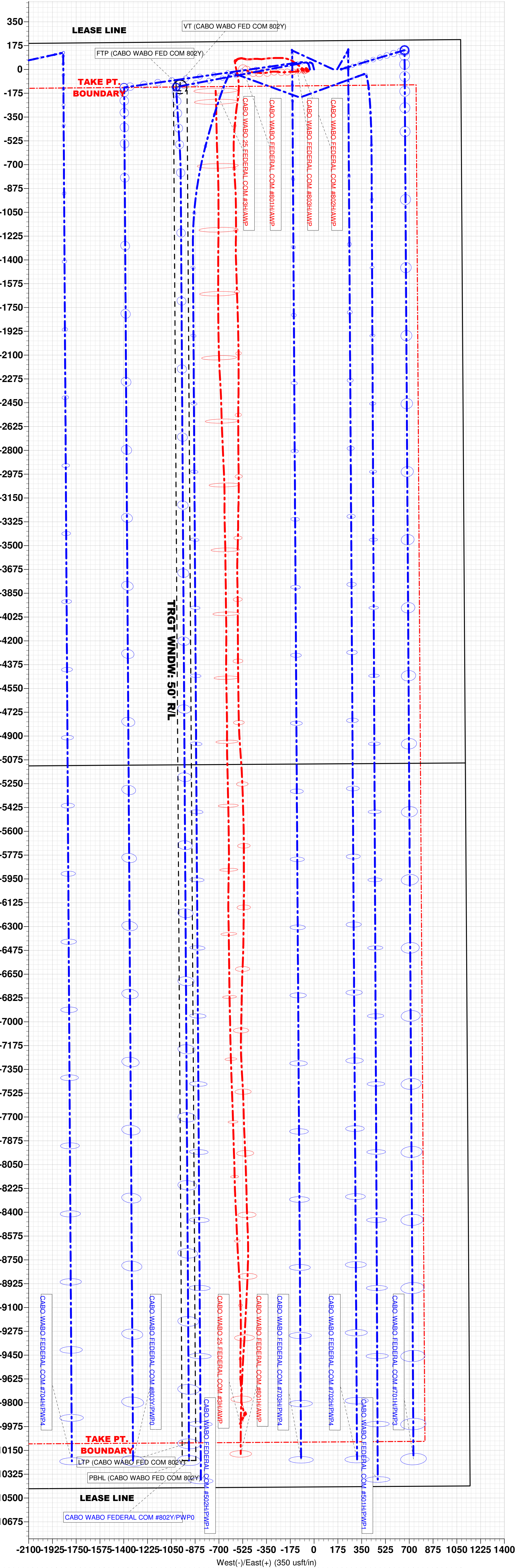
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FEDERAL COM #802H
Wellbore: QWB
Design: PWP0
GL: 3148.0
RKB 32ft + GL 3148ft @ 3180.0usft

WELL DETAILS: CABO WABO FEDERAL COM #802Y					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408374.66	624125.49	32° 7' 19.573 N	103° 55' 56.607 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
VT (CABO WABO FED COM 802Y)	10052.5	-128.7	-1015.0	408245.91	623110.45
FTP (CABO WABO FED COM 802Y)	10530.0	-128.7	-985.2	408245.92	623140.32
LTP (CABO WABO FED COM 802Y)	10530.0	-10094.5	-920.4	398280.11	623205.08
PBHL (CABO WABO FED COM 802Y)	10530.0	-10224.5	-919.6	398150.12	623205.93



CABO WABO FEDERAL COM #802H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	START NUDGE 2.00
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	START HOLD @ 2250.0 MD
2250.0	5.00	345.00	2249.7	10.5	-2.8	2.00	345.00	-10.2	START DLS 2.00 TFO -109.54
2535.0	5.00	345.00	2533.6	34.5	-9.3	0.00	0.00	-33.6	START HOLD @ 3144.0 MD
3144.0	11.50	259.29	3137.6	48.9	-76.0	2.00	-109.54	-41.9	START HOLD @ 3144.0 MD
7648.7	11.50	259.29	7551.8	-118.1	-958.5	0.00	0.00	203.4	START DROP -2.00
8223.7	0.00	0.00	8123.0	-128.7	-1015.0	2.00	180.00	219.2	START HOLD @ 8223.7 MD
10153.2	0.00	0.00	10052.5	-128.7	-1015.0	0.00	0.00	219.2	START BUILD 12.00
10903.2	90.00	176.55	10530.0	-605.3	-986.3	12.00	176.55	691.3	START DLS 2.00 TFO 90.00
11057.1	90.00	179.63	10530.0	-759.1	-981.2	2.00	90.00	843.9	START HOLD @ 11057.1 MD
20392.7	90.00	179.63	10530.0	-10094.5	-920.4	0.00	0.00	10136.4	START HOLD @ 20392.7 MD
20522.7	90.00	179.63	10530.0	-10224.5	-919.6	0.00	0.00	10265.8	TD @ 20522.7 MD



TRGT WNDW:
10 A/B

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(575) 748-1283 Fax:(575) 748-9720
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Phone:(505) 334-6178 Fax:(505) 334-6170
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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 123596

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 123596
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	7/18/2022