

Well Name: CABO WABO FEDERAL COM	Well Location: 32.1221865 / - 103.9421636	County or Parish/State: EDDY / NM
Well Number: 806H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120895	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154775200X1	Well Status: Approved Application for Permit to Drill	Operator: COG PRODUCTION LLC

Notice of Intent

Sundry ID: 2640005

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 10/14/2021	Time Sundry Submitted: 01:01
Date proposed operation will begin: 10/13/2021	

Procedure Description: COG Production requests an amendment to our approved APD for this well to reflect a change in BHL. New planned BHL is: 200' FSL & 330' FWL SWSW 25-25S-29E Eddy Co.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Cabo_Wabo_Federal_Com_806H_revised_C_102_signed_10_14_21_20211014130049.pdf
- CABO_WABO_FED_COM_806H_PWP2_SVY_RPT_20211014130049.pdf
- CABO_WABO_FED_COM_806H_PWP2_AC_RPT_20211014130049.pdf
- CABO_WABO_FED_COM_806H_PWP2_WP_20211014130048.pdf
- Cabo_Wabo_Fed_Com_806H_APD_revised_drill_plan_10_14_21_20211014130048.pdf

Received by OCD: 2/21/2022 8:23:31 AM

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Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: STAN WAGNER
Signed on: OCT 14, 2021 01:01 PM
Name: COG PRODUCTION LLC
Title: Regulatory Advisor
Street Address: 600 WEST ILLINOIS AVE
City: MIDLAND State: TX
Phone: (432) 253-9685
Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field Representative

Representative Name:
Street Address:
City: State: Zip:
Phone:
Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS
BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234
BLM POC Email Address: cwalls@blm.gov
Disposition: Approved
Disposition Date: 02/10/2022
Signature: Chris Walls

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 30-015-47752		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp (Gas)		
4 Property Code 329794		5 Property Name CABO WABO FEDERAL COM			6 Well Number 806H	
7 OGRID No. 217955		8 Operator Name COG PRODUCTION LLC			9 Elevation 3152'	

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
C	24	25-S	29-E		210'	NORTH	1360'	WEST	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
M	25	25-S	29-E		200'	SOUTH	330'	WEST	EDDY

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

	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'	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. <i>Stan Wagner</i> 10/14/21 Signature Date Stan Wagner Printed Name E-mail Address	
	SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=662434.76 Y=408407.32 LAT.= 32.12218651° N LONG.= 103.94216367° W 210' FNL, 1360' FWL SECTION 24	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=661405.11 Y=408278.14 LAT.= 32.12184165° N LONG.= 103.94549109° W 330' FNL, 330' FWL SECTION 24	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. MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 Date of Survey Signature and Seal of Professional Surveyor: 8/16/2021
	LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=661467.66 Y=398320.52 LAT.= 32.09446859° N LONG.= 103.94540480° W 330' FSL, 330' FWL SECTION 25	BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=661468.93 Y=398190.53 LAT.= 32.09411124° N LONG.= 103.94540219° W 200' FSL, 330' FWL SECTION 25	Certificate Number
	Released to Imaging: 3/9/2022 2:14:14 PM		

ConocoPhillips - Cabo Wabo Fed Com #805H

1. Geologic Formations

TVD of target	10,660' EOL	Pilot hole depth	NA
MD at TD:	20,744'	Deepest expected fresh water:	53'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	655	Water	
Top of Salt	1065	Salt	
Base of Salt	3116	Salt	
Lamar	3314	Salt Water	
Bell Canyon	3362	Salt Water	
Cherry Canyon	4265	Oil/Gas	
Brushy Canyon	5470	Oil/Gas	
Bone Spring Lime	7170	Oil/Gas	
1st Bone Spring Sand	8126	Oil/Gas	
2nd Bone Spring Sand	8737	Oil/Gas	
3rd Bone Spring Sand	10051	Oil/Gas	
Wolfcamp A	10527	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1350	10.75"	45.5	N80	BTC	4.00	1.67	16.93	17.86
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.25	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.66	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,744	5.5"	20	P110	W441	1.60	2.16	3.01	2.45
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips - Cabo Wabo Fed Com #805H

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

ConocoPhillips - Cabo Wabo Fed Com #805H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	770	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	446	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1051	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

ConocoPhillips - Cabo Wabo Fed Com #805H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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

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

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

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

ConocoPhillips - Cabo Wabo Fed Com #805H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6930 psi at 10660' TVD
Abnormal Temperature	NO 165 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #806H

OWB

PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference	PWP2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/12/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,744.6	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning Factor	Warning
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 24 FED COM #5H - OWB - ACTUAL WEL	7,991.6	12,448.0	168.8	113.6	3.057	CC
CABO WABO 24 FED COM #5H - OWB - ACTUAL WEL	8,000.0	12,448.0	169.0	113.3	3.033	ES, SF
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	16,038.5	10,150.0	561.4	495.8	8.565	CC, ES, SF
CABO WABO FED COM #503H - OWB - PWP1	2,673.1	2,678.6	201.8	187.5	14.142	CC
CABO WABO FED COM #503H - OWB - PWP1	2,700.0	2,705.6	201.8	187.4	14.055	ES
CABO WABO FED COM #503H - OWB - PWP1	2,900.0	2,902.6	206.7	191.7	13.808	SF
CABO WABO FED COM #504H - OWB - PWP1	4,136.4	4,142.0	168.4	148.0	8.251	CC
CABO WABO FED COM #504H - OWB - PWP1	4,300.0	4,305.2	168.8	147.7	7.993	ES
CABO WABO FED COM #504H - OWB - PWP1	5,300.0	5,302.7	187.8	162.4	7.388	SF
CABO WABO FED COM #704H - OWB - PWP2	2,413.4	2,422.4	370.0	357.6	29.917	CC
CABO WABO FED COM #704H - OWB - PWP2	2,500.0	2,508.0	370.0	357.3	29.158	ES
CABO WABO FED COM #704H - OWB - PWP2	2,600.0	2,600.0	373.6	360.5	28.622	SF
CABO WABO FED COM #705H - OWB - PWP2	2,500.0	2,509.0	340.0	327.3	26.792	CC, ES
CABO WABO FED COM #705H - OWB - PWP2	2,800.0	2,808.5	355.7	341.9	25.811	SF
CABO WABO FED COM #706H - OWB - PWP2	2,513.5	2,523.0	310.0	297.3	24.335	CC, ES
CABO WABO FED COM #706H - OWB - PWP2	2,900.0	2,919.7	325.5	311.4	23.013	SF
CABO WABO FED COM #804H - OWB - PWP2	2,500.0	2,502.0	60.0	47.3	4.730	CC, ES
CABO WABO FED COM #804H - OWB - PWP2	20,744.6	20,828.2	824.1	638.3	4.436	SF
CABO WABO FED COM #805H - OWB - PWP2	2,564.8	2,566.4	30.0	17.1	2.325	CC
CABO WABO FED COM #805H - OWB - PWP2	2,800.0	2,804.1	30.4	16.6	2.210	ES, SF
PATRON 23 FED #4H - LATERAL 01 - AWP-LAT 01	11,977.3	11,872.5	987.3	920.0	14.659	CC
PATRON 23 FED #4H - LATERAL 01 - AWP-LAT 01	12,000.0	11,887.3	987.4	919.8	14.598	ES
PATRON 23 FED #4H - LATERAL 01 - AWP-LAT 01	12,300.0	12,160.0	995.6	923.0	13.702	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 24 FED COM #5H - OWB - ACTUAL WEL	20,744.6	7,701.0				Out of Range @TD
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	20,744.6	10,150.0				Out of Range @TD
CABO WABO FED COM #503H - OWB - PWP1	20,744.6	19,034.3				Out of Range @TD
CABO WABO FED COM #504H - OWB - PWP1	20,744.6	19,032.0				Out of Range @TD
CABO WABO FED COM #704H - OWB - PWP2	20,744.6	20,747.1				Out of Range @TD
CABO WABO FED COM #705H - OWB - PWP2	20,744.6	20,724.4				Out of Range @TD
CABO WABO FED COM #706H - OWB - PWP2	20,744.6	20,715.8				Out of Range @TD
CABO WABO FED COM #804H - OWB - PWP2	20,744.6	20,828.2	824.1	638.3	4.436	SF
CABO WABO FED COM #805H - OWB - PWP2	20,744.6	20,730.2	429.1	246.9	2.354	
PATRON 23 FED #4H - LATERAL 01 - AWP-LAT 01	20,744.6	14,865.0				Out of Range @TD

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 24 FED COM #5H - OWB - ACTUAL WELLPATH													Offset Site Error:	3.0 usft
Survey Program:		100- VES GyroFlex, 7290-MWD <th colspan="2">Rule Assigned:</th> <th colspan="2">Offset Well Error:</th> <td colspan="2">3.0 usft</td>					Rule Assigned:		Offset Well Error:		3.0 usft			
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error:		3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,100.0	7,055.3	12,448.0	7,868.4	25.6	79.0	-107.62	-160.9	-707.8	907.4	855.9	51.47	17.630		
7,200.0	7,154.2	12,448.0	7,868.4	25.9	79.0	-107.62	-160.9	-707.8	809.4	757.7	51.64	15.672		
7,300.0	7,253.2	12,448.0	7,868.4	26.3	79.0	-107.62	-160.9	-707.8	711.9	660.0	51.82	13.738		
7,400.0	7,352.1	12,448.0	7,868.4	26.7	79.0	-107.62	-160.9	-707.8	615.2	563.2	52.00	11.831		
7,500.0	7,451.1	12,448.0	7,868.4	27.0	79.0	-107.62	-160.9	-707.8	519.7	467.5	52.19	9.959		
7,600.0	7,550.1	12,448.0	7,868.4	27.4	79.0	-107.62	-160.9	-707.8	426.4	374.0	52.39	8.139		
7,700.0	7,649.0	12,448.0	7,868.4	27.8	79.0	-107.62	-160.9	-707.8	336.9	284.3	52.59	6.406		
7,800.0	7,748.0	12,448.0	7,868.4	28.1	79.0	-107.62	-160.9	-707.8	255.3	202.6	52.68	4.847		
7,900.0	7,847.0	12,448.0	7,868.4	28.5	79.0	-107.62	-160.9	-707.8	192.0	139.4	52.59	3.651		
7,991.6	7,937.6	12,448.0	7,868.4	28.8	79.0	-107.62	-160.9	-707.8	168.8	113.6	55.23	3.057	CC	
8,000.0	7,945.9	12,448.0	7,868.4	28.9	79.0	-107.62	-160.9	-707.8	169.0	113.3	55.73	3.033	ES, SF	
8,100.0	8,044.9	12,448.0	7,868.4	29.2	79.0	-107.62	-160.9	-707.8	200.6	140.2	60.43	3.320		
8,200.0	8,143.9	12,448.0	7,868.4	29.6	79.0	-107.62	-160.9	-707.8	268.2	207.5	60.73	4.417		
8,300.0	8,242.8	12,448.0	7,868.4	30.0	79.0	-107.62	-160.9	-707.8	351.6	291.8	59.85	5.875		
8,400.0	8,341.8	12,448.0	7,868.4	30.3	79.0	-107.62	-160.9	-707.8	442.0	382.8	59.11	7.477		
8,500.0	8,440.8	12,448.0	7,868.4	30.7	79.0	-107.62	-160.9	-707.8	535.7	477.1	58.65	9.135		
8,600.0	8,539.7	12,448.0	7,868.4	31.1	79.0	-107.62	-160.9	-707.8	631.4	573.0	58.39	10.814		
8,700.0	8,638.7	12,448.0	7,868.4	31.5	79.0	-107.62	-160.9	-707.8	728.3	670.0	58.27	12.498		
8,800.0	8,737.7	12,448.0	7,868.4	31.8	79.0	-107.62	-160.9	-707.8	825.9	767.6	58.26	14.177		
8,900.0	8,836.6	12,448.0	7,868.4	32.2	79.0	-107.62	-160.9	-707.8	924.0	865.7	58.31	15.848		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104													Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
									(usft)	(usft)				
15,300.0	10,660.0	10,150.0	10,147.6	56.5	9.4	-39.46	-5,508.3	-638.6	927.6	872.9	54.73	16.950		
15,400.0	10,660.0	10,150.0	10,147.6	57.1	9.4	-39.46	-5,508.3	-638.6	850.2	794.2	55.96	15.193		
15,500.0	10,660.0	10,150.0	10,147.6	57.7	9.4	-39.46	-5,508.3	-638.6	777.9	720.5	57.42	13.546		
15,600.0	10,660.0	10,150.0	10,147.6	58.4	9.4	-39.46	-5,508.3	-638.6	712.3	653.2	59.11	12.050		
15,700.0	10,660.0	10,150.0	10,147.6	59.0	9.4	-39.46	-5,508.3	-638.6	655.5	594.6	60.97	10.752		
15,800.0	10,660.0	10,150.0	10,147.6	59.7	9.4	-39.46	-5,508.3	-638.6	609.9	547.1	62.83	9.708		
15,900.0	10,660.0	10,150.0	10,147.6	60.3	9.4	-39.46	-5,508.3	-638.6	578.2	513.8	64.42	8.976		
16,000.0	10,660.0	10,150.0	10,147.6	61.0	9.4	-39.46	-5,508.3	-638.6	562.7	497.3	65.39	8.605		
16,038.5	10,660.0	10,150.0	10,147.6	61.3	9.4	-39.46	-5,508.3	-638.6	561.4	495.8	65.55	8.565 CC, ES, SF		
16,100.0	10,660.0	10,150.0	10,147.6	61.7	9.4	-39.46	-5,508.3	-638.6	564.8	499.2	65.51	8.621		
16,200.0	10,660.0	10,150.0	10,147.6	62.3	9.4	-39.46	-5,508.3	-638.6	584.2	519.4	64.78	9.018		
16,300.0	10,660.0	10,150.0	10,147.6	63.0	9.4	-39.46	-5,508.3	-638.6	619.3	555.9	63.44	9.762		
16,400.0	10,660.0	10,150.0	10,147.6	63.7	9.4	-39.46	-5,508.3	-638.6	667.7	605.9	61.82	10.802		
16,500.0	10,660.0	10,150.0	10,147.6	64.4	9.4	-39.46	-5,508.3	-638.6	726.7	666.6	60.17	12.078		
16,600.0	10,660.0	10,150.0	10,147.6	65.1	9.4	-39.46	-5,508.3	-638.6	794.0	735.4	58.66	13.536		
16,700.0	10,660.0	10,150.0	10,147.6	65.8	9.4	-39.46	-5,508.3	-638.6	867.6	810.3	57.35	15.130		
16,800.0	10,660.0	10,150.0	10,147.6	66.4	9.4	-39.46	-5,508.3	-638.6	946.1	889.8	56.24	16.823		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #503H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8449-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	3.0	3.0	3.0	3.0	171.32	-199.7	30.5	202.1					
100.0	100.0	103.0	103.0	3.0	3.0	171.32	-199.7	30.5	202.1	196.1	6.00	33.657		
200.0	200.0	203.0	203.0	3.0	3.0	171.32	-199.7	30.5	202.1	196.0	6.05	33.422		
300.0	300.0	303.0	303.0	3.1	3.0	171.32	-199.7	30.5	202.1	195.9	6.13	32.937		
400.0	400.0	403.0	403.0	3.2	3.0	171.32	-199.7	30.5	202.1	195.8	6.27	32.240		
500.0	500.0	503.0	503.0	3.4	3.1	171.32	-199.7	30.5	202.1	195.6	6.44	31.378		
600.0	600.0	603.0	603.0	3.6	3.1	171.32	-199.7	30.5	202.1	195.4	6.65	30.399		
700.0	700.0	703.0	703.0	3.8	3.1	171.32	-199.7	30.5	202.1	195.2	6.89	29.347		
800.0	800.0	803.0	803.0	4.0	3.2	171.32	-199.7	30.5	202.1	194.9	7.15	28.259		
900.0	900.0	903.0	903.0	4.2	3.2	171.32	-199.7	30.5	202.1	194.6	7.44	27.165		
1,000.0	1,000.0	1,003.0	1,003.0	4.5	3.2	171.32	-199.7	30.5	202.1	194.3	7.75	26.085		
1,100.0	1,100.0	1,103.0	1,103.0	4.8	3.3	171.32	-199.7	30.5	202.1	194.0	8.07	25.035		
1,200.0	1,200.0	1,203.0	1,203.0	5.1	3.4	171.32	-199.7	30.5	202.1	193.6	8.41	24.023		
1,300.0	1,300.0	1,303.0	1,303.0	5.4	3.4	171.32	-199.7	30.5	202.1	193.3	8.76	23.055		
1,400.0	1,400.0	1,403.0	1,403.0	5.7	3.5	171.32	-199.7	30.5	202.1	192.9	9.13	22.134		
1,500.0	1,500.0	1,503.0	1,503.0	6.0	3.5	171.32	-199.7	30.5	202.1	192.6	9.50	21.262		
1,600.0	1,600.0	1,603.0	1,603.0	6.3	3.6	171.32	-199.7	30.5	202.1	192.2	9.89	20.437		
1,700.0	1,700.0	1,703.0	1,703.0	6.6	3.7	171.32	-199.7	30.5	202.1	191.8	10.28	19.659		
1,800.0	1,800.0	1,803.0	1,803.0	6.9	3.8	171.32	-199.7	30.5	202.1	191.4	10.68	18.925		
1,900.0	1,900.0	1,903.0	1,903.0	7.2	3.9	171.32	-199.7	30.5	202.1	191.0	11.08	18.233		
2,000.0	2,000.0	2,003.0	2,003.0	7.6	3.9	171.32	-199.7	30.5	202.1	190.6	11.49	17.581		
2,100.0	2,100.0	2,103.0	2,103.0	7.9	4.0	171.32	-199.7	30.5	202.1	190.1	11.91	16.967		
2,200.0	2,200.0	2,203.0	2,203.0	8.2	4.1	171.32	-199.7	30.5	202.1	189.7	12.33	16.388		
2,300.0	2,300.0	2,303.0	2,303.0	8.6	4.2	171.32	-199.7	30.5	202.1	189.3	12.75	15.842		
2,400.0	2,400.0	2,403.0	2,403.0	8.9	4.3	171.32	-199.7	30.5	202.1	188.9	13.18	15.327		
2,500.0	2,500.0	2,503.1	2,503.1	9.2	4.4	171.32	-199.7	30.5	202.1	188.4	13.62	14.840		
2,600.0	2,600.0	2,604.7	2,604.7	9.6	4.5	-99.71	-199.0	32.3	201.9	187.9	14.01	14.409		
2,673.1	2,673.0	2,678.6	2,678.5	9.8	4.5	-101.70	-197.6	35.6	201.8	187.5	14.27	14.142 CC		
2,700.0	2,699.8	2,705.6	2,705.4	9.9	4.5	-102.69	-196.9	37.3	201.8	187.4	14.36	14.055 ES		
2,800.0	2,799.5	2,804.7	2,804.2	10.2	4.6	-107.36	-193.6	45.0	202.9	188.2	14.68	13.823		
2,900.0	2,898.7	2,902.6	2,901.7	10.6	4.6	-112.82	-190.2	53.0	206.7	191.7	14.97	13.808 SF		
2,912.4	2,911.0	2,914.7	2,913.8	10.6	4.7	-113.54	-189.8	53.9	207.4	192.4	15.00	13.824		
3,000.0	2,997.7	3,000.0	2,998.7	10.9	4.7	-118.57	-186.8	60.9	213.4	198.2	15.23	14.009		
3,100.0	3,096.6	3,097.4	3,095.8	11.2	4.8	-123.95	-183.5	68.8	222.3	206.8	15.49	14.348		
3,200.0	3,195.6	3,194.8	3,192.8	11.6	4.8	-128.89	-180.1	76.8	233.0	217.2	15.75	14.793		
3,300.0	3,294.6	3,292.3	3,289.8	11.9	4.9	-133.39	-176.7	84.7	245.3	229.3	16.02	15.317		
3,400.0	3,393.5	3,389.7	3,386.8	12.2	5.0	-137.44	-173.4	92.6	259.0	242.7	16.30	15.896		
3,500.0	3,492.5	3,487.1	3,483.9	12.6	5.1	-141.09	-170.0	100.5	273.9	257.3	16.59	16.511		
3,600.0	3,591.5	3,584.5	3,580.9	12.9	5.1	-144.35	-166.6	108.5	289.8	272.9	16.90	17.146		
3,700.0	3,690.4	3,681.9	3,677.9	13.3	5.2	-147.28	-163.3	116.4	306.6	289.4	17.23	17.790		
3,800.0	3,789.4	3,779.3	3,774.9	13.6	5.3	-149.90	-159.9	124.3	324.1	306.5	17.58	18.433		
3,900.0	3,888.4	3,876.7	3,872.0	14.0	5.4	-152.26	-156.5	132.3	342.1	324.2	17.94	19.070		
4,000.0	3,987.3	3,974.1	3,969.0	14.3	5.5	-154.38	-153.2	140.2	360.7	342.4	18.31	19.695		
4,100.0	4,086.3	4,071.5	4,066.0	14.7	5.6	-156.30	-149.8	148.1	379.7	361.0	18.70	20.306		
4,200.0	4,185.3	4,168.9	4,163.1	15.0	5.6	-158.03	-146.4	156.1	399.1	380.0	19.10	20.900		
4,300.0	4,284.2	4,266.3	4,260.1	15.4	5.7	-159.60	-143.1	164.0	418.8	399.3	19.50	21.477		
4,400.0	4,383.2	4,363.8	4,357.1	15.8	5.8	-161.03	-139.7	171.9	438.8	418.9	19.92	22.036		
4,500.0	4,482.2	4,461.2	4,454.1	16.1	5.9	-162.34	-136.3	179.9	459.1	438.7	20.34	22.576		
4,600.0	4,581.1	4,558.6	4,551.2	16.5	6.0	-163.54	-133.0	187.8	479.5	458.8	20.76	23.098		
4,700.0	4,680.1	4,656.0	4,648.2	16.8	6.1	-164.64	-129.6	195.7	500.2	479.0	21.19	23.601		
4,800.0	4,779.0	4,753.4	4,745.2	17.2	6.2	-165.65	-126.2	203.6	521.0	499.3	21.63	24.087		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8449-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.0	4,878.0	4,850.8	4,842.2	17.5	6.3	-166.59	-122.9	211.6	541.9	519.9	22.07	24.556	
5,000.0	4,977.0	4,948.2	4,939.3	17.9	6.4	-167.46	-119.5	219.5	563.0	540.5	22.51	25.008	
5,100.0	5,075.9	5,045.6	5,036.3	18.3	6.5	-168.26	-116.1	227.4	584.2	561.2	22.96	25.444	
5,200.0	5,174.9	5,143.0	5,133.3	18.6	6.6	-169.01	-112.8	235.4	605.5	582.1	23.41	25.865	
5,300.0	5,273.9	5,240.4	5,230.4	19.0	6.7	-169.71	-109.4	243.3	626.9	603.0	23.86	26.270	
5,400.0	5,372.8	5,337.8	5,327.4	19.3	6.8	-170.36	-106.0	251.2	648.3	624.0	24.32	26.662	
5,500.0	5,471.8	5,435.3	5,424.4	19.7	6.9	-170.97	-102.7	259.2	669.9	645.1	24.77	27.039	
5,600.0	5,570.8	5,532.7	5,521.4	20.1	7.0	-171.54	-99.3	267.1	691.5	666.3	25.23	27.404	
5,700.0	5,669.7	5,630.1	5,618.5	20.4	7.1	-172.08	-95.9	275.0	713.2	687.5	25.69	27.756	
5,800.0	5,768.7	5,727.5	5,715.5	20.8	7.2	-172.58	-92.6	283.0	734.9	708.8	26.16	28.097	
5,900.0	5,867.7	5,824.9	5,812.5	21.2	7.3	-173.06	-89.2	290.9	756.7	730.1	26.62	28.425	
6,000.0	5,966.6	5,922.3	5,909.6	21.5	7.4	-173.51	-85.8	298.8	778.5	751.4	27.09	28.743	
6,100.0	6,065.6	6,019.7	6,006.6	21.9	7.5	-173.94	-82.5	306.8	800.4	772.9	27.55	29.051	
6,200.0	6,164.6	6,117.1	6,103.6	22.3	7.6	-174.34	-79.1	314.7	822.3	794.3	28.02	29.348	
6,300.0	6,263.5	6,214.5	6,200.6	22.6	7.8	-174.72	-75.7	322.6	844.3	815.8	28.49	29.636	
6,400.0	6,362.5	6,311.9	6,297.7	23.0	7.9	-175.09	-72.4	330.5	866.3	837.3	28.96	29.914	
6,500.0	6,461.5	6,409.3	6,394.7	23.4	8.0	-175.43	-69.0	338.5	888.3	858.9	29.43	30.184	
6,600.0	6,560.4	6,506.8	6,491.7	23.7	8.1	-175.76	-65.6	346.4	910.3	880.4	29.90	30.445	
6,700.0	6,659.4	6,604.2	6,588.7	24.1	8.2	-176.07	-62.3	354.3	932.4	902.0	30.37	30.698	
6,800.0	6,758.4	6,701.6	6,685.8	24.5	8.3	-176.37	-58.9	362.3	954.5	923.7	30.85	30.944	
6,900.0	6,857.3	6,799.0	6,782.8	24.8	8.4	-176.66	-55.5	370.2	976.6	945.3	31.32	31.182	
7,000.0	6,956.3	6,896.4	6,879.8	25.2	8.5	-176.93	-52.2	378.1	998.8	967.0	31.79	31.413	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #504H - OWB - PWP1													Offset Site Error: 3.0 usft		
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	2.0	2.0	3.0	3.0	179.85	-199.9	0.5	199.9						
100.0	100.0	102.0	102.0	3.0	3.0	179.85	-199.9	0.5	199.9	193.9	6.00	33.305			
200.0	200.0	202.0	202.0	3.0	3.0	179.85	-199.9	0.5	199.9	193.9	6.05	33.072			
300.0	300.0	302.0	302.0	3.1	3.0	179.85	-199.9	0.5	199.9	193.8	6.13	32.592			
400.0	400.0	402.0	402.0	3.2	3.0	179.85	-199.9	0.5	199.9	193.7	6.27	31.901			
500.0	500.0	502.0	502.0	3.4	3.1	179.85	-199.9	0.5	199.9	193.5	6.44	31.047			
600.0	600.0	602.0	602.0	3.6	3.1	179.85	-199.9	0.5	199.9	193.3	6.65	30.076			
700.0	700.0	702.0	702.0	3.8	3.1	179.85	-199.9	0.5	199.9	193.1	6.89	29.033			
800.0	800.0	802.0	802.0	4.0	3.2	179.85	-199.9	0.5	199.9	192.8	7.15	27.956			
900.0	900.0	902.0	902.0	4.2	3.2	179.85	-199.9	0.5	199.9	192.5	7.44	26.871			
1,000.0	1,000.0	1,002.0	1,002.0	4.5	3.2	179.85	-199.9	0.5	199.9	192.2	7.75	25.801			
1,100.0	1,100.0	1,102.0	1,102.0	4.8	3.3	179.85	-199.9	0.5	199.9	191.9	8.08	24.760			
1,200.0	1,200.0	1,202.0	1,202.0	5.1	3.4	179.85	-199.9	0.5	199.9	191.5	8.42	23.757			
1,300.0	1,300.0	1,302.0	1,302.0	5.4	3.4	179.85	-199.9	0.5	199.9	191.2	8.77	22.799			
1,400.0	1,400.0	1,402.0	1,402.0	5.7	3.5	179.85	-199.9	0.5	199.9	190.8	9.14	21.887			
1,500.0	1,500.0	1,502.0	1,502.0	6.0	3.5	179.85	-199.9	0.5	199.9	190.4	9.51	21.022			
1,600.0	1,600.0	1,602.0	1,602.0	6.3	3.6	179.85	-199.9	0.5	199.9	190.0	9.90	20.206			
1,700.0	1,700.0	1,702.0	1,702.0	6.6	3.7	179.85	-199.9	0.5	199.9	189.7	10.29	19.435			
1,800.0	1,800.0	1,802.0	1,802.0	6.9	3.8	179.85	-199.9	0.5	199.9	189.3	10.69	18.708			
1,900.0	1,900.0	1,902.0	1,902.0	7.2	3.9	179.85	-199.9	0.5	199.9	188.8	11.09	18.023			
2,000.0	2,000.0	2,002.0	2,002.0	7.6	3.9	179.85	-199.9	0.5	199.9	188.4	11.51	17.378			
2,100.0	2,100.0	2,102.0	2,102.0	7.9	4.0	179.85	-199.9	0.5	199.9	188.0	11.92	16.770			
2,200.0	2,200.0	2,202.0	2,202.0	8.2	4.1	179.85	-199.9	0.5	199.9	187.6	12.34	16.197			
2,300.0	2,300.0	2,302.0	2,302.0	8.6	4.2	179.85	-199.9	0.5	199.9	187.2	12.77	15.657			
2,400.0	2,400.0	2,402.0	2,402.0	8.9	4.3	179.85	-199.9	0.5	199.9	186.7	13.20	15.146			
2,500.0	2,500.0	2,502.1	2,502.1	9.2	4.4	179.85	-199.9	0.5	199.9	186.3	13.63	14.665			
2,600.0	2,600.0	2,604.9	2,604.9	9.6	4.5	-90.17	-199.2	-1.2	199.2	185.2	14.04	14.187			
2,700.0	2,699.8	2,707.7	2,707.6	9.9	4.5	-90.29	-196.9	-6.4	197.0	182.6	14.42	13.663			
2,800.0	2,799.5	2,809.0	2,808.4	10.2	4.6	-90.63	-193.5	-14.3	193.7	178.8	14.80	13.081			
2,900.0	2,898.7	2,908.8	2,907.9	10.6	4.7	-91.93	-190.0	-22.4	190.2	175.0	15.20	12.517			
2,912.4	2,911.0	2,921.3	2,920.3	10.6	4.7	-92.17	-189.6	-23.4	189.8	174.5	15.24	12.450			
3,000.0	2,997.7	3,008.6	3,007.2	10.9	4.7	-93.87	-186.5	-30.6	187.0	171.4	15.59	11.990			
3,100.0	3,096.6	3,108.3	3,106.6	11.2	4.8	-95.87	-182.9	-38.7	184.0	168.0	16.00	11.500			
3,200.0	3,195.6	3,208.1	3,205.9	11.6	4.9	-97.94	-179.4	-46.8	181.2	164.8	16.41	11.044			
3,300.0	3,294.6	3,307.8	3,305.3	11.9	4.9	-100.07	-175.9	-55.0	178.7	161.9	16.82	10.623			
3,400.0	3,393.5	3,407.6	3,404.6	12.2	5.0	-102.25	-172.4	-63.1	176.4	159.2	17.24	10.233			
3,500.0	3,492.5	3,507.3	3,504.0	12.6	5.1	-104.49	-168.8	-71.2	174.4	156.8	17.66	9.875			
3,600.0	3,591.5	3,607.0	3,603.3	12.9	5.2	-106.78	-165.3	-79.3	172.7	154.6	18.09	9.547			
3,700.0	3,690.4	3,706.8	3,702.7	13.3	5.2	-109.11	-161.8	-87.5	171.2	152.7	18.52	9.248			
3,800.0	3,789.4	3,806.5	3,802.0	13.6	5.3	-111.47	-158.3	-95.6	170.1	151.1	18.95	8.977			
3,900.0	3,888.4	3,906.3	3,901.4	14.0	5.4	-113.87	-154.7	-103.7	169.2	149.8	19.38	8.732			
4,000.0	3,987.3	4,006.0	4,000.7	14.3	5.5	-116.28	-151.2	-111.9	168.7	148.8	19.81	8.512			
4,100.0	4,086.3	4,105.8	4,100.1	14.7	5.6	-118.71	-147.7	-120.0	168.4	148.1	20.25	8.317			
4,136.4	4,122.3	4,142.0	4,136.2	14.8	5.6	-119.59	-146.4	-123.0	168.4	148.0	20.41	8.251 CC			
4,200.0	4,185.3	4,205.5	4,199.4	15.0	5.7	-121.14	-144.2	-128.1	168.4	147.8	20.68	8.144			
4,300.0	4,284.2	4,305.2	4,298.8	15.4	5.8	-123.56	-140.6	-136.3	168.8	147.7	21.12	7.993 ES			
4,400.0	4,383.2	4,405.0	4,398.1	15.8	5.9	-125.97	-137.1	-144.4	169.4	147.9	21.55	7.862			
4,500.0	4,482.2	4,504.7	4,497.5	16.1	6.0	-128.35	-133.6	-152.5	170.4	148.4	21.99	7.749			
4,600.0	4,581.1	4,604.5	4,596.8	16.5	6.1	-130.71	-130.1	-160.7	171.6	149.2	22.42	7.655			
4,700.0	4,680.1	4,704.2	4,696.2	16.8	6.2	-133.03	-126.5	-168.8	173.1	150.3	22.85	7.577			
4,800.0	4,779.0	4,804.0	4,795.5	17.2	6.3	-135.30	-123.0	-176.9	174.9	151.7	23.28	7.514			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #504H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
4,900.0	4,878.0	4,903.7	4,894.9	17.5	6.4	-137.53	-119.5	-185.1	177.0	153.3	23.71	7.465		
5,000.0	4,977.0	5,003.5	4,994.2	17.9	6.5	-139.70	-116.0	-193.2	179.4	155.2	24.14	7.429		
5,100.0	5,075.9	5,103.2	5,093.6	18.3	6.6	-141.81	-112.4	-201.3	181.9	157.4	24.57	7.405		
5,200.0	5,174.9	5,202.9	5,192.9	18.6	6.7	-143.86	-108.9	-209.4	184.8	159.8	25.00	7.392		
5,300.0	5,273.9	5,302.7	5,292.3	19.0	6.8	-145.85	-105.4	-217.6	187.8	162.4	25.43	7.388 SF		
5,400.0	5,372.8	5,402.4	5,391.6	19.3	6.9	-147.77	-101.9	-225.7	191.1	165.3	25.85	7.393		
5,500.0	5,471.8	5,502.2	5,491.0	19.7	7.0	-149.62	-98.3	-233.8	194.6	168.3	26.28	7.405		
5,600.0	5,570.8	5,601.9	5,590.3	20.1	7.1	-151.41	-94.8	-242.0	198.3	171.6	26.71	7.425		
5,700.0	5,669.7	5,701.7	5,689.7	20.4	7.2	-153.13	-91.3	-250.1	202.2	175.0	27.13	7.451		
5,800.0	5,768.7	5,801.4	5,789.0	20.8	7.3	-154.78	-87.8	-258.2	206.2	178.7	27.56	7.483		
5,900.0	5,867.7	5,901.1	5,888.4	21.2	7.4	-156.37	-84.3	-266.4	210.4	182.4	27.99	7.519		
6,000.0	5,966.6	6,000.9	5,987.7	21.5	7.5	-157.90	-80.7	-274.5	214.8	186.4	28.41	7.559		
6,100.0	6,065.6	6,100.6	6,087.1	21.9	7.6	-159.37	-77.2	-282.6	219.3	190.5	28.84	7.604		
6,200.0	6,164.6	6,200.4	6,186.4	22.3	7.7	-160.77	-73.7	-290.8	224.0	194.7	29.27	7.651		
6,300.0	6,263.5	6,300.1	6,285.8	22.6	7.9	-162.12	-70.2	-298.9	228.7	199.0	29.70	7.701		
6,400.0	6,362.5	6,399.9	6,385.1	23.0	8.0	-163.41	-66.6	-307.0	233.6	203.5	30.13	7.754		
6,500.0	6,461.5	6,499.6	6,484.5	23.4	8.1	-164.65	-63.1	-315.2	238.7	208.1	30.56	7.809		
6,600.0	6,560.4	6,599.3	6,583.8	23.7	8.2	-165.84	-59.6	-323.3	243.8	212.8	31.00	7.865		
6,700.0	6,659.4	6,699.1	6,683.2	24.1	8.3	-166.97	-56.1	-331.4	249.0	217.6	31.43	7.923		
6,800.0	6,758.4	6,798.8	6,782.5	24.5	8.4	-168.06	-52.5	-339.5	254.3	222.5	31.87	7.981		
6,900.0	6,857.3	6,898.6	6,881.9	24.8	8.5	-169.11	-49.0	-347.7	259.7	227.4	32.30	8.041		
7,000.0	6,956.3	6,998.3	6,981.2	25.2	8.7	-170.11	-45.5	-355.8	265.2	232.5	32.74	8.101		
7,100.0	7,055.3	7,098.1	7,080.6	25.6	8.8	-171.07	-42.0	-363.9	270.8	237.6	33.18	8.162		
7,200.0	7,154.2	7,197.8	7,179.9	25.9	8.9	-172.00	-38.4	-372.1	276.4	242.8	33.62	8.223		
7,300.0	7,253.2	7,297.6	7,279.3	26.3	9.0	-172.88	-34.9	-380.2	282.1	248.1	34.06	8.284		
7,400.0	7,352.1	7,397.3	7,378.6	26.7	9.1	-173.73	-31.4	-388.3	287.9	253.4	34.50	8.346		
7,500.0	7,451.1	7,497.0	7,477.9	27.0	9.2	-174.55	-27.9	-396.5	293.8	258.8	34.94	8.407		
7,600.0	7,550.1	7,596.8	7,577.3	27.4	9.4	-175.33	-24.3	-404.6	299.6	264.3	35.39	8.468		
7,700.0	7,649.0	7,696.5	7,676.6	27.8	9.5	-176.09	-20.8	-412.7	305.6	269.8	35.83	8.528		
7,800.0	7,748.0	7,796.3	7,776.0	28.1	9.6	-176.82	-17.3	-420.9	311.6	275.3	36.28	8.589		
7,900.0	7,847.0	7,896.0	7,875.3	28.5	9.7	-177.51	-13.8	-429.0	317.6	280.9	36.73	8.648		
8,000.0	7,945.9	7,995.8	7,974.7	28.9	9.8	-178.19	-10.2	-437.1	323.7	286.5	37.18	8.708		
8,100.0	8,044.9	8,095.5	8,074.0	29.2	9.9	-178.83	-6.7	-445.3	329.9	292.2	37.63	8.767		
8,200.0	8,143.9	8,195.2	8,173.4	29.6	10.1	-179.46	-3.2	-453.4	336.0	298.0	38.08	8.825		
8,300.0	8,242.8	8,295.0	8,272.7	30.0	10.2	-179.94	0.3	-461.5	342.2	303.7	38.53	8.883		
8,400.0	8,341.8	8,394.7	8,372.1	30.3	10.3	-179.36	3.9	-469.6	348.5	309.5	38.98	8.940		
8,500.0	8,440.8	8,501.9	8,478.8	30.7	10.4	-179.20	4.9	-478.9	354.3	314.8	39.41	8.989		
8,600.0	8,539.7	8,614.0	8,588.5	31.1	10.4	-177.98	-12.6	-492.2	356.7	316.8	39.94	8.932		
8,700.0	8,638.7	8,716.1	8,683.4	31.5	10.5	-172.52	-46.6	-507.5	358.1	317.5	40.63	8.814		
8,800.0	8,737.7	8,804.1	8,758.9	31.8	10.5	-165.78	-88.9	-522.8	363.2	321.8	41.38	8.776		
8,900.0	8,836.6	8,877.4	8,816.1	32.2	10.6	-158.98	-132.6	-536.7	376.8	334.8	42.00	8.972		
9,000.0	8,935.6	8,937.7	8,858.4	32.6	10.7	-152.88	-173.8	-548.7	402.5	360.2	42.30	9.514		
9,100.0	9,034.6	8,987.0	8,889.6	32.9	10.7	-147.74	-210.6	-558.9	440.9	398.7	42.23	10.442		
9,200.0	9,133.5	9,027.6	8,912.7	33.3	10.8	-143.53	-242.8	-567.5	491.2	449.4	41.85	11.736		
9,300.0	9,232.5	9,061.2	8,930.1	33.7	10.9	-140.11	-270.7	-574.7	551.3	510.0	41.32	13.342		
9,400.0	9,331.5	9,100.0	8,947.9	34.0	10.9	-136.30	-304.1	-583.0	619.4	578.5	40.89	15.148		
9,500.0	9,430.4	9,113.2	8,953.5	34.4	11.0	-135.04	-315.8	-585.8	693.1	652.9	40.22	17.232		
9,600.0	9,529.4	9,133.6	8,961.5	34.8	11.0	-133.15	-333.9	-590.2	771.7	731.9	39.77	19.404		
9,675.7	9,604.3	9,150.0	8,967.4	35.1	11.0	-131.66	-348.8	-593.7	833.6	794.1	39.52	21.094		
9,700.0	9,628.4	9,150.0	8,967.4	35.2	11.0	-132.20	-348.8	-593.7	853.8	814.4	39.39	21.675		
9,800.0	9,727.7	9,166.2	8,972.9	35.5	11.1	-133.06	-363.6	-597.2	937.9	898.8	39.10	23.984		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #704H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	9.0	9.0	3.0	3.0	89.49		3.3	370.0	370.0				
100.0	100.0	109.0	109.0	3.0	3.0	89.49		3.3	370.0	370.0	364.0	6.00	61.636	
200.0	200.0	209.0	209.0	3.0	3.0	89.49		3.3	370.0	370.0	364.0	6.04	61.241	
300.0	300.0	309.0	309.0	3.1	3.0	89.49		3.3	370.0	370.0	363.9	6.12	60.426	
400.0	400.0	409.0	409.0	3.2	3.0	89.49		3.3	370.0	370.0	363.8	6.24	59.254	
500.0	500.0	509.0	509.0	3.4	3.1	89.49		3.3	370.0	370.0	363.6	6.40	57.803	
600.0	600.0	609.0	609.0	3.6	3.1	89.49		3.3	370.0	370.0	363.4	6.59	56.151	
700.0	700.0	709.0	709.0	3.8	3.1	89.49		3.3	370.0	370.0	363.2	6.81	54.374	
800.0	800.0	809.0	809.0	4.0	3.2	89.49		3.3	370.0	370.0	363.0	7.04	52.532	
900.0	900.0	909.0	909.0	4.2	3.2	89.49		3.3	370.0	370.0	362.7	7.30	50.674	
1,000.0	1,000.0	1,009.0	1,009.0	4.5	3.2	89.49		3.3	370.0	370.0	362.4	7.58	48.835	
1,100.0	1,100.0	1,109.0	1,109.0	4.8	3.3	89.49		3.3	370.0	370.0	362.1	7.87	47.040	
1,200.0	1,200.0	1,209.0	1,209.0	5.1	3.4	89.49		3.3	370.0	370.0	361.8	8.17	45.305	
1,300.0	1,300.0	1,309.0	1,309.0	5.4	3.4	89.49		3.3	370.0	370.0	361.5	8.48	43.639	
1,400.0	1,400.0	1,409.0	1,409.0	5.7	3.5	89.49		3.3	370.0	370.0	361.2	8.80	42.049	
1,500.0	1,500.0	1,509.0	1,509.0	6.0	3.6	89.49		3.3	370.0	370.0	360.9	9.13	40.536	
1,600.0	1,600.0	1,609.0	1,609.0	6.3	3.6	89.49		3.3	370.0	370.0	360.6	9.46	39.099	
1,700.0	1,700.0	1,709.0	1,709.0	6.6	3.7	89.49		3.3	370.0	370.0	360.2	9.80	37.738	
1,800.0	1,800.0	1,809.0	1,809.0	6.9	3.8	89.49		3.3	370.0	370.0	359.9	10.15	36.449	
1,900.0	1,900.0	1,909.0	1,909.0	7.2	3.9	89.49		3.3	370.0	370.0	359.5	10.50	35.229	
2,000.0	2,000.0	2,009.0	2,009.0	7.6	3.9	89.49		3.3	370.0	370.0	359.2	10.86	34.074	
2,100.0	2,100.0	2,109.0	2,109.0	7.9	4.0	89.49		3.3	370.0	370.0	358.8	11.22	32.981	
2,200.0	2,200.0	2,209.0	2,209.0	8.2	4.1	89.49		3.3	370.0	370.0	358.4	11.58	31.947	
2,300.0	2,300.0	2,309.0	2,309.0	8.6	4.2	89.49		3.3	370.0	370.0	358.1	11.95	30.967	
2,400.0	2,400.0	2,409.0	2,409.0	8.9	4.3	89.49		3.3	370.0	370.0	357.7	12.32	30.038	
2,413.4	2,413.4	2,422.4	2,422.4	8.9	4.3	89.49		3.3	370.0	370.0	357.6	12.37	29.917 CC	
2,500.0	2,500.0	2,508.0	2,508.0	9.2	4.4	89.49		3.3	370.0	370.0	357.3	12.69	29.158 ES	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	4.5	179.44		3.7	371.7	373.6	360.5	13.05	28.622 SF	
2,700.0	2,699.8	2,684.8	2,684.6	9.9	4.5	179.31		4.6	375.8	383.6	370.2	13.40	28.635	
2,800.0	2,799.5	2,771.7	2,771.3	10.2	4.5	179.12		6.1	382.6	400.0	386.3	13.74	29.120	
2,900.0	2,898.7	2,865.3	2,864.4	10.6	4.6	178.86		8.1	392.0	422.2	408.1	14.10	29.945	
2,912.4	2,911.0	2,877.4	2,876.4	10.6	4.6	178.83		8.4	393.2	425.2	411.0	14.15	30.056	
3,000.0	2,997.7	2,962.3	2,960.8	10.9	4.6	178.64		10.3	401.9	446.6	432.1	14.47	30.857	
3,100.0	3,096.6	3,059.2	3,057.3	11.2	4.7	178.44		12.5	411.8	471.0	456.1	14.85	31.717	
3,200.0	3,195.6	3,156.2	3,153.7	11.6	4.8	178.25		14.6	421.7	495.4	480.2	15.23	32.522	
3,300.0	3,294.6	3,253.2	3,250.1	11.9	4.8	178.09		16.8	431.6	519.9	504.2	15.62	33.275	
3,400.0	3,393.5	3,350.1	3,346.6	12.2	4.9	177.94		19.0	441.5	544.3	528.3	16.02	33.981	
3,500.0	3,492.5	3,447.1	3,443.0	12.6	4.9	177.80		21.2	451.4	568.7	552.3	16.42	34.643	
3,600.0	3,591.5	3,544.0	3,539.4	12.9	5.0	177.67		23.3	461.3	593.2	576.4	16.82	35.264	
3,700.0	3,690.4	3,641.0	3,635.8	13.3	5.1	177.56		25.5	471.2	617.6	600.4	17.23	35.847	
3,800.0	3,789.4	3,738.0	3,732.3	13.6	5.2	177.45		27.7	481.1	642.1	624.4	17.64	36.395	
3,900.0	3,888.4	3,834.9	3,828.7	14.0	5.2	177.35		29.9	491.0	666.5	648.5	18.06	36.910	
4,000.0	3,987.3	3,931.9	3,925.1	14.3	5.3	177.26		32.0	500.9	691.0	672.5	18.48	37.395	
4,100.0	4,086.3	4,028.8	4,021.5	14.7	5.4	177.17		34.2	510.8	715.4	696.5	18.90	37.852	
4,200.0	4,185.3	4,125.8	4,118.0	15.0	5.5	177.09		36.4	520.7	739.9	720.6	19.33	38.283	
4,300.0	4,284.2	4,222.7	4,214.4	15.4	5.6	177.02		38.6	530.6	764.4	744.6	19.76	38.690	
4,400.0	4,383.2	4,319.7	4,310.8	15.8	5.6	176.95		40.7	540.5	788.8	768.6	20.19	39.074	
4,500.0	4,482.2	4,416.7	4,407.3	16.1	5.7	176.88		42.9	550.4	813.3	792.7	20.62	39.438	
4,600.0	4,581.1	4,513.6	4,503.7	16.5	5.8	176.82		45.1	560.3	837.7	816.7	21.06	39.781	
4,700.0	4,680.1	4,610.6	4,600.1	16.8	5.9	176.76		47.2	570.2	862.2	840.7	21.50	40.107	
4,800.0	4,779.0	4,707.5	4,696.5	17.2	6.0	176.70		49.4	580.1	886.7	864.7	21.94	40.416	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #704H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,878.0	4,804.5	4,793.0	17.5	6.1	176.65	51.6	590.0	911.1	888.7	22.38	40.708		
5,000.0	4,977.0	4,901.5	4,889.4	17.9	6.2	176.60	53.8	599.9	935.6	912.8	22.83	40.986		
5,100.0	5,075.9	4,998.4	4,985.8	18.3	6.3	176.55	55.9	609.8	960.0	936.8	23.27	41.251		
5,200.0	5,174.9	5,095.4	5,082.2	18.6	6.4	176.51	58.1	619.7	984.5	960.8	23.72	41.502		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	9.0	9.0	3.0	3.0	89.49	3.0	340.0	340.0				
100.0	100.0	109.0	109.0	3.0	3.0	89.49	3.0	340.0	340.0	334.0	6.00	56.639	
200.0	200.0	209.0	209.0	3.0	3.0	89.49	3.0	340.0	340.0	334.0	6.04	56.275	
300.0	300.0	309.0	309.0	3.1	3.0	89.49	3.0	340.0	340.0	333.9	6.12	55.527	
400.0	400.0	409.0	409.0	3.2	3.0	89.49	3.0	340.0	340.0	333.8	6.24	54.450	
500.0	500.0	509.0	509.0	3.4	3.1	89.49	3.0	340.0	340.0	333.6	6.40	53.116	
600.0	600.0	609.0	609.0	3.6	3.1	89.49	3.0	340.0	340.0	333.4	6.59	51.598	
700.0	700.0	709.0	709.0	3.8	3.1	89.49	3.0	340.0	340.0	333.2	6.81	49.965	
800.0	800.0	809.0	809.0	4.0	3.2	89.49	3.0	340.0	340.0	333.0	7.04	48.273	
900.0	900.0	909.0	909.0	4.2	3.2	89.49	3.0	340.0	340.0	332.7	7.30	46.565	
1,000.0	1,000.0	1,009.0	1,009.0	4.5	3.2	89.49	3.0	340.0	340.0	332.4	7.58	44.875	
1,100.0	1,100.0	1,109.0	1,109.0	4.8	3.3	89.49	3.0	340.0	340.0	332.1	7.87	43.226	
1,200.0	1,200.0	1,209.0	1,209.0	5.1	3.4	89.49	3.0	340.0	340.0	331.8	8.17	41.631	
1,300.0	1,300.0	1,309.0	1,309.0	5.4	3.4	89.49	3.0	340.0	340.0	331.5	8.48	40.101	
1,400.0	1,400.0	1,409.0	1,409.0	5.7	3.5	89.49	3.0	340.0	340.0	331.2	8.80	38.639	
1,500.0	1,500.0	1,509.0	1,509.0	6.0	3.6	89.49	3.0	340.0	340.0	330.9	9.13	37.249	
1,600.0	1,600.0	1,609.0	1,609.0	6.3	3.6	89.49	3.0	340.0	340.0	330.5	9.46	35.929	
1,700.0	1,700.0	1,709.0	1,709.0	6.6	3.7	89.49	3.0	340.0	340.0	330.2	9.80	34.678	
1,800.0	1,800.0	1,809.0	1,809.0	6.9	3.8	89.49	3.0	340.0	340.0	329.9	10.15	33.493	
1,900.0	1,900.0	1,909.0	1,909.0	7.2	3.9	89.49	3.0	340.0	340.0	329.5	10.50	32.372	
2,000.0	2,000.0	2,009.0	2,009.0	7.6	3.9	89.49	3.0	340.0	340.0	329.2	10.86	31.311	
2,100.0	2,100.0	2,109.0	2,109.0	7.9	4.0	89.49	3.0	340.0	340.0	328.8	11.22	30.307	
2,200.0	2,200.0	2,209.0	2,209.0	8.2	4.1	89.49	3.0	340.0	340.0	328.4	11.58	29.357	
2,300.0	2,300.0	2,309.0	2,309.0	8.6	4.2	89.49	3.0	340.0	340.0	328.1	11.95	28.456	
2,400.0	2,400.0	2,409.0	2,409.0	8.9	4.3	89.49	3.0	340.0	340.0	327.7	12.32	27.602	
2,500.0	2,500.0	2,509.0	2,509.0	9.2	4.4	89.49	3.0	340.0	340.0	327.3	12.69	26.792 CC, ES	
2,600.0	2,600.0	2,609.0	2,609.0	9.6	4.5	179.50	3.0	340.0	341.8	328.7	13.06	26.175	
2,700.0	2,699.8	2,708.8	2,708.8	9.9	4.6	179.50	3.0	340.0	347.0	333.6	13.42	25.861	
2,800.0	2,799.5	2,808.5	2,808.5	10.2	4.7	179.51	3.0	340.0	355.7	341.9	13.78	25.811 SF	
2,900.0	2,898.7	2,907.7	2,907.7	10.6	4.8	179.53	3.0	340.0	367.9	353.7	14.15	26.006	
2,912.4	2,911.0	2,920.0	2,920.0	10.6	4.8	179.53	3.0	340.0	369.7	355.5	14.19	26.045	
3,000.0	2,997.7	3,006.7	3,006.7	10.9	4.9	179.55	3.0	340.0	382.2	367.7	14.51	26.336	
3,100.0	3,096.6	3,105.6	3,105.6	11.2	5.0	179.56	3.0	340.0	396.6	381.7	14.88	26.647	
3,200.0	3,195.6	3,204.6	3,204.6	11.6	5.1	179.58	3.0	340.0	410.9	395.7	15.25	26.937	
3,300.0	3,294.6	3,303.6	3,303.6	11.9	5.2	179.59	3.0	340.0	425.3	409.6	15.63	27.209	
3,400.0	3,393.5	3,402.5	3,402.5	12.2	5.3	179.60	3.0	340.0	439.6	423.6	16.01	27.463	
3,500.0	3,492.5	3,501.5	3,501.5	12.6	5.4	179.62	3.0	340.0	453.9	437.6	16.39	27.700	
3,600.0	3,591.5	3,600.5	3,600.5	12.9	5.5	179.63	3.0	340.0	468.3	451.5	16.77	27.923	
3,700.0	3,690.4	3,699.4	3,699.4	13.3	5.7	179.64	3.0	340.0	482.6	465.5	17.16	28.131	
3,800.0	3,789.4	3,798.4	3,798.4	13.6	5.8	179.65	3.0	340.0	497.0	479.4	17.54	28.328	
3,900.0	3,888.4	3,897.4	3,897.4	14.0	5.9	179.66	3.0	340.0	511.3	493.4	17.93	28.512	
4,000.0	3,987.3	3,996.3	3,996.3	14.3	6.0	179.67	3.0	340.0	525.7	507.4	18.33	28.685	
4,100.0	4,086.3	4,095.3	4,095.3	14.7	6.1	179.68	3.0	340.0	540.0	521.3	18.72	28.849	
4,200.0	4,185.3	4,194.3	4,194.3	15.0	6.2	179.69	3.0	340.0	554.4	535.3	19.11	29.003	
4,300.0	4,284.2	4,293.2	4,293.2	15.4	6.3	179.69	3.0	340.0	568.7	549.2	19.51	29.148	
4,400.0	4,383.2	4,392.2	4,392.2	15.8	6.4	179.70	3.0	340.0	583.1	563.2	19.91	29.285	
4,500.0	4,482.2	4,491.2	4,491.2	16.1	6.6	179.71	3.0	340.0	597.4	577.1	20.31	29.415	
4,600.0	4,581.1	4,590.1	4,590.1	16.5	6.7	179.72	3.0	340.0	611.8	591.1	20.71	29.538	
4,700.0	4,680.1	4,689.1	4,689.1	16.8	6.8	179.72	3.0	340.0	626.1	605.0	21.11	29.654	
4,800.0	4,779.0	4,788.0	4,788.0	17.2	6.9	179.73	3.0	340.0	640.5	618.9	21.52	29.765	
4,900.0	4,878.0	4,887.0	4,887.0	17.5	7.0	179.73	3.0	340.0	654.8	632.9	21.92	29.869	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
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)						
5,000.0	4,977.0	4,986.0	4,986.0	17.9	7.2	179.74	3.0	340.0	669.2	646.8	22.33	29.968		
5,100.0	5,075.9	5,084.9	5,084.9	18.3	7.3	179.75	3.0	340.0	683.5	660.8	22.74	30.063		
5,200.0	5,174.9	5,183.9	5,183.9	18.6	7.4	179.75	3.0	340.0	697.9	674.7	23.14	30.152		
5,300.0	5,273.9	5,282.9	5,282.9	19.0	7.5	179.76	3.0	340.0	712.2	688.6	23.55	30.237		
5,400.0	5,372.8	5,381.8	5,381.8	19.3	7.6	179.76	3.0	340.0	726.5	702.6	23.96	30.318		
5,500.0	5,471.8	5,480.8	5,480.8	19.7	7.7	179.77	3.0	340.0	740.9	716.5	24.37	30.396		
5,600.0	5,570.8	5,563.2	5,563.2	20.1	7.8	179.76	3.1	340.7	756.1	731.4	24.75	30.550		
5,700.0	5,669.7	5,640.9	5,640.9	20.4	7.9	179.75	3.4	343.4	774.0	748.9	25.11	30.824		
5,800.0	5,768.7	5,735.2	5,735.0	20.8	7.9	179.71	3.9	348.5	793.6	768.1	25.51	31.105		
5,900.0	5,867.7	5,833.2	5,832.9	21.2	8.0	179.68	4.5	353.8	813.2	787.3	25.93	31.363		
6,000.0	5,966.6	5,931.3	5,930.8	21.5	8.0	179.64	5.1	359.0	832.9	806.5	26.35	31.609		
6,100.0	6,065.6	6,029.3	6,028.7	21.9	8.1	179.61	5.7	364.3	852.5	825.8	26.77	31.844		
6,200.0	6,164.6	6,127.4	6,126.6	22.3	8.1	179.58	6.2	369.6	872.2	845.0	27.20	32.069		
6,300.0	6,263.5	6,225.4	6,224.5	22.6	8.2	179.55	6.8	374.9	891.9	864.2	27.63	32.284		
6,400.0	6,362.5	6,323.4	6,322.4	23.0	8.2	179.53	7.4	380.1	911.5	883.5	28.06	32.489		
6,500.0	6,461.5	6,421.5	6,420.3	23.4	8.3	179.50	8.0	385.4	931.2	902.7	28.49	32.685		
6,600.0	6,560.4	6,519.5	6,518.2	23.7	8.3	179.47	8.5	390.7	950.8	921.9	28.92	32.873		
6,700.0	6,659.4	6,617.6	6,616.1	24.1	8.4	179.45	9.1	396.0	970.5	941.1	29.36	33.053		
6,800.0	6,758.4	6,715.6	6,714.0	24.5	8.5	179.43	9.7	401.3	990.1	960.3	29.80	33.225		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	8.0	8.0	3.0	3.0	89.49	2.8	310.0	310.1				
100.0	100.0	108.0	108.0	3.0	3.0	89.49	2.8	310.0	310.1	304.0	6.00	51.648	
200.0	200.0	208.0	208.0	3.0	3.0	89.49	2.8	310.0	310.1	304.0	6.04	51.317	
300.0	300.0	308.0	308.0	3.1	3.0	89.49	2.8	310.0	310.1	303.9	6.12	50.634	
400.0	400.0	408.0	408.0	3.2	3.0	89.49	2.8	310.0	310.1	303.8	6.24	49.652	
500.0	500.0	508.0	508.0	3.4	3.1	89.49	2.8	310.0	310.1	303.7	6.40	48.436	
600.0	600.0	608.0	608.0	3.6	3.1	89.49	2.8	310.0	310.1	303.5	6.59	47.052	
700.0	700.0	708.0	708.0	3.8	3.1	89.49	2.8	310.0	310.1	303.2	6.80	45.563	
800.0	800.0	808.0	808.0	4.0	3.2	89.49	2.8	310.0	310.1	303.0	7.04	44.020	
900.0	900.0	908.0	908.0	4.2	3.2	89.49	2.8	310.0	310.1	302.8	7.30	42.463	
1,000.0	1,000.0	1,008.0	1,008.0	4.5	3.2	89.49	2.8	310.0	310.1	302.5	7.58	40.922	
1,100.0	1,100.0	1,108.0	1,108.0	4.8	3.3	89.49	2.8	310.0	310.1	302.2	7.87	39.418	
1,200.0	1,200.0	1,208.0	1,208.0	5.1	3.4	89.49	2.8	310.0	310.1	301.9	8.17	37.964	
1,300.0	1,300.0	1,308.0	1,308.0	5.4	3.4	89.49	2.8	310.0	310.1	301.6	8.48	36.568	
1,400.0	1,400.0	1,408.0	1,408.0	5.7	3.5	89.49	2.8	310.0	310.1	301.3	8.80	35.236	
1,500.0	1,500.0	1,508.0	1,508.0	6.0	3.6	89.49	2.8	310.0	310.1	300.9	9.13	33.968	
1,600.0	1,600.0	1,608.0	1,608.0	6.3	3.6	89.49	2.8	310.0	310.1	300.6	9.46	32.764	
1,700.0	1,700.0	1,708.0	1,708.0	6.6	3.7	89.49	2.8	310.0	310.1	300.2	9.80	31.623	
1,800.0	1,800.0	1,808.0	1,808.0	6.9	3.8	89.49	2.8	310.0	310.1	299.9	10.15	30.543	
1,900.0	1,900.0	1,908.0	1,908.0	7.2	3.9	89.49	2.8	310.0	310.1	299.5	10.50	29.521	
2,000.0	2,000.0	2,008.0	2,008.0	7.6	3.9	89.49	2.8	310.0	310.1	299.2	10.86	28.553	
2,100.0	2,100.0	2,108.0	2,108.0	7.9	4.0	89.49	2.8	310.0	310.1	298.8	11.22	27.637	
2,200.0	2,200.0	2,208.0	2,208.0	8.2	4.1	89.49	2.8	310.0	310.1	298.5	11.58	26.770	
2,300.0	2,300.0	2,308.0	2,308.0	8.6	4.2	89.49	2.8	310.0	310.1	298.1	11.95	25.949	
2,400.0	2,400.0	2,408.0	2,408.0	8.9	4.3	89.49	2.8	310.0	310.1	297.7	12.32	25.171	
2,500.0	2,500.0	2,508.5	2,508.5	9.2	4.4	89.49	2.8	310.0	310.0	297.4	12.69	24.431	
2,513.5	2,513.5	2,523.0	2,523.0	9.3	4.4	179.48	2.8	310.0	310.0	297.3	12.74	24.335	CC, ES
2,600.0	2,600.0	2,615.3	2,615.3	9.6	4.5	179.15	4.6	308.7	310.5	297.5	13.06	23.783	
2,700.0	2,699.8	2,720.5	2,720.3	9.9	4.6	178.25	9.5	305.0	312.4	299.0	13.41	23.289	
2,800.0	2,799.5	2,820.2	2,819.8	10.2	4.7	177.26	15.1	300.9	317.2	303.4	13.78	23.020	
2,900.0	2,898.7	2,919.7	2,919.1	10.6	4.8	176.34	20.7	296.8	325.5	311.4	14.15	23.013	SF
2,912.4	2,911.0	2,932.1	2,931.4	10.6	4.8	176.23	21.4	296.2	326.8	312.6	14.19	23.028	
3,000.0	2,997.7	3,019.1	3,018.1	10.9	4.8	175.49	26.3	292.6	336.1	321.6	14.51	23.156	
3,100.0	3,096.6	3,118.4	3,117.2	11.2	4.9	174.70	31.8	288.5	346.8	331.9	14.89	23.293	
3,200.0	3,195.6	3,217.7	3,216.3	11.6	5.0	173.96	37.4	284.4	357.5	342.2	15.26	23.423	
3,300.0	3,294.6	3,317.0	3,315.4	11.9	5.1	173.26	43.0	280.3	368.2	352.6	15.64	23.545	
3,400.0	3,393.5	3,416.4	3,414.4	12.2	5.2	172.60	48.5	276.1	379.1	363.1	16.02	23.660	
3,500.0	3,492.5	3,515.7	3,513.5	12.6	5.3	171.98	54.1	272.0	389.9	373.5	16.41	23.768	
3,600.0	3,591.5	3,615.0	3,612.6	12.9	5.4	171.39	59.7	267.9	400.9	384.1	16.79	23.869	
3,700.0	3,690.4	3,714.3	3,711.7	13.3	5.5	170.83	65.2	263.8	411.8	394.6	17.18	23.965	
3,800.0	3,789.4	3,813.6	3,810.8	13.6	5.6	170.30	70.8	259.6	422.8	405.2	17.58	24.055	
3,900.0	3,888.4	3,913.0	3,909.8	14.0	5.7	169.80	76.4	255.5	433.8	415.9	17.97	24.140	
4,000.0	3,987.3	4,012.3	4,008.9	14.3	5.8	169.32	81.9	251.4	444.9	426.5	18.37	24.220	
4,100.0	4,086.3	4,111.6	4,108.0	14.7	5.9	168.87	87.5	247.3	456.0	437.2	18.77	24.295	
4,200.0	4,185.3	4,210.9	4,207.1	15.0	6.0	168.44	93.1	243.1	467.1	447.9	19.17	24.366	
4,300.0	4,284.2	4,310.2	4,306.1	15.4	6.1	168.02	98.6	239.0	478.2	458.7	19.57	24.433	
4,400.0	4,383.2	4,409.6	4,405.2	15.8	6.2	167.63	104.2	234.9	489.4	469.4	19.98	24.496	
4,500.0	4,482.2	4,508.9	4,504.3	16.1	6.3	167.25	109.8	230.8	500.6	480.2	20.39	24.555	
4,600.0	4,581.1	4,608.2	4,603.4	16.5	6.5	166.89	115.3	226.7	511.8	491.0	20.79	24.611	
4,700.0	4,680.1	4,707.5	4,702.5	16.8	6.6	166.55	120.9	222.5	523.0	501.8	21.21	24.664	
4,800.0	4,779.0	4,806.8	4,801.5	17.2	6.7	166.22	126.5	218.4	534.2	512.6	21.62	24.713	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Between Ellipses (usft)	Separation Factor			
4,900.0	4,878.0	4,905.9	4,900.3	17.5	6.8	165.90	132.0	214.3	545.5	523.5	22.03	24.761		
5,000.0	4,977.0	5,000.0	4,994.3	17.9	6.9	165.70	136.6	210.9	557.2	534.7	22.44	24.834		
5,100.0	5,075.9	5,097.3	5,091.5	18.3	7.0	165.66	139.9	208.4	569.4	546.6	22.84	24.929		
5,200.0	5,174.9	5,192.8	5,187.0	18.6	7.1	165.76	142.0	206.9	582.3	559.1	23.25	25.050		
5,300.0	5,273.9	5,288.1	5,282.3	19.0	7.2	166.00	142.8	206.3	595.9	572.2	23.65	25.195		
5,400.0	5,372.8	5,386.7	5,380.8	19.3	7.3	166.33	142.8	206.3	609.8	585.8	24.06	25.347		
5,500.0	5,471.8	5,485.6	5,479.8	19.7	7.4	166.64	142.8	206.3	623.8	599.3	24.47	25.493		
5,600.0	5,570.8	5,584.6	5,578.8	20.1	7.6	166.93	142.8	206.3	637.8	612.9	24.88	25.634		
5,700.0	5,669.7	5,683.6	5,677.7	20.4	7.7	167.22	142.8	206.3	651.7	626.5	25.29	25.771		
5,800.0	5,768.7	5,782.5	5,776.7	20.8	7.8	167.49	142.8	206.3	665.7	640.0	25.70	25.903		
5,900.0	5,867.7	5,881.5	5,875.7	21.2	7.9	167.75	142.8	206.3	679.8	653.7	26.11	26.030		
6,000.0	5,966.6	5,980.5	5,974.6	21.5	8.0	168.01	142.8	206.3	693.8	667.3	26.53	26.153		
6,100.0	6,065.6	6,079.4	6,073.6	21.9	8.1	168.25	142.8	206.3	707.8	680.9	26.94	26.272		
6,200.0	6,164.6	6,178.4	6,172.6	22.3	8.3	168.48	142.8	206.3	721.9	694.6	27.36	26.388		
6,300.0	6,263.5	6,277.4	6,271.5	22.6	8.4	168.70	142.8	206.3	736.0	708.2	27.77	26.499		
6,400.0	6,362.5	6,376.3	6,370.5	23.0	8.5	168.92	142.8	206.3	750.1	721.9	28.19	26.608		
6,500.0	6,461.5	6,475.3	6,469.5	23.4	8.6	169.12	142.8	206.3	764.1	735.5	28.61	26.712		
6,600.0	6,560.4	6,574.3	6,568.4	23.7	8.7	169.32	142.8	206.3	778.2	749.2	29.02	26.814		
6,700.0	6,659.4	6,673.2	6,667.4	24.1	8.9	169.51	142.8	206.3	792.4	762.9	29.44	26.912		
6,800.0	6,758.4	6,772.2	6,766.4	24.5	9.0	169.70	142.8	206.3	806.5	776.6	29.86	27.008		
6,900.0	6,857.3	6,871.2	6,865.3	24.8	9.1	169.88	142.8	206.3	820.6	790.3	30.28	27.100		
7,000.0	6,956.3	6,970.1	6,964.3	25.2	9.2	170.05	142.8	206.3	834.7	804.0	30.70	27.190		
7,100.0	7,055.3	7,069.1	7,063.3	25.6	9.3	170.22	142.8	206.3	848.9	817.8	31.12	27.277		
7,200.0	7,154.2	7,168.1	7,162.2	25.9	9.5	170.38	142.8	206.3	863.0	831.5	31.54	27.362		
7,300.0	7,253.2	7,267.0	7,261.2	26.3	9.6	170.54	142.8	206.3	877.2	845.2	31.96	27.444		
7,400.0	7,352.1	7,366.0	7,360.1	26.7	9.7	170.69	142.8	206.3	891.3	858.9	32.38	27.524		
7,500.0	7,451.1	7,465.0	7,459.1	27.0	9.8	170.84	142.8	206.3	905.5	872.7	32.81	27.602		
7,600.0	7,550.1	7,563.9	7,558.1	27.4	9.9	170.98	142.8	206.3	919.7	886.4	33.23	27.678		
7,700.0	7,649.0	7,662.9	7,657.0	27.8	10.1	171.12	142.8	206.3	933.8	900.2	33.65	27.751		
7,800.0	7,748.0	7,761.8	7,756.0	28.1	10.2	171.25	142.8	206.3	948.0	913.9	34.07	27.822		
7,900.0	7,847.0	7,860.8	7,855.0	28.5	10.3	171.38	142.8	206.3	962.2	927.7	34.50	27.892		
8,000.0	7,945.9	7,959.8	7,953.9	28.9	10.4	171.51	142.8	206.3	976.4	941.5	34.92	27.960		
8,100.0	8,044.9	8,058.7	8,052.9	29.2	10.6	171.63	142.8	206.3	990.6	955.2	35.35	28.026		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	3.0	3.0	89.51		0.5	60.0	60.0				
100.0	100.0	102.0	102.0	3.0	3.0	89.51		0.5	60.0	60.0	54.0	6.00	9.997	
200.0	200.0	202.0	202.0	3.0	3.0	89.51		0.5	60.0	60.0	54.0	6.04	9.933	
300.0	300.0	302.0	302.0	3.1	3.0	89.51		0.5	60.0	60.0	53.9	6.12	9.801	
400.0	400.0	402.0	402.0	3.2	3.0	89.51		0.5	60.0	60.0	53.8	6.24	9.611	
500.0	500.0	502.0	502.0	3.4	3.1	89.51		0.5	60.0	60.0	53.6	6.40	9.376	
600.0	600.0	602.0	602.0	3.6	3.1	89.51		0.5	60.0	60.0	53.4	6.59	9.108	
700.0	700.0	702.0	702.0	3.8	3.1	89.51		0.5	60.0	60.0	53.2	6.80	8.820	
800.0	800.0	802.0	802.0	4.0	3.2	89.51		0.5	60.0	60.0	53.0	7.04	8.521	
900.0	900.0	902.0	902.0	4.2	3.2	89.51		0.5	60.0	60.0	52.7	7.30	8.220	
1,000.0	1,000.0	1,002.0	1,002.0	4.5	3.2	89.51		0.5	60.0	60.0	52.4	7.58	7.922	
1,100.0	1,100.0	1,102.0	1,102.0	4.8	3.3	89.51		0.5	60.0	60.0	52.1	7.86	7.630	
1,200.0	1,200.0	1,202.0	1,202.0	5.1	3.4	89.51		0.5	60.0	60.0	51.8	8.17	7.349	
1,300.0	1,300.0	1,302.0	1,302.0	5.4	3.4	89.51		0.5	60.0	60.0	51.5	8.48	7.079	
1,400.0	1,400.0	1,402.0	1,402.0	5.7	3.5	89.51		0.5	60.0	60.0	51.2	8.80	6.821	
1,500.0	1,500.0	1,502.0	1,502.0	6.0	3.5	89.51		0.5	60.0	60.0	50.9	9.13	6.576	
1,600.0	1,600.0	1,602.0	1,602.0	6.3	3.6	89.51		0.5	60.0	60.0	50.6	9.46	6.343	
1,700.0	1,700.0	1,702.0	1,702.0	6.6	3.7	89.51		0.5	60.0	60.0	50.2	9.80	6.122	
1,800.0	1,800.0	1,802.0	1,802.0	6.9	3.8	89.51		0.5	60.0	60.0	49.9	10.15	5.913	
1,900.0	1,900.0	1,902.0	1,902.0	7.2	3.9	89.51		0.5	60.0	60.0	49.5	10.50	5.715	
2,000.0	2,000.0	2,002.0	2,002.0	7.6	3.9	89.51		0.5	60.0	60.0	49.2	10.86	5.527	
2,100.0	2,100.0	2,102.0	2,102.0	7.9	4.0	89.51		0.5	60.0	60.0	48.8	11.22	5.350	
2,200.0	2,200.0	2,202.0	2,202.0	8.2	4.1	89.51		0.5	60.0	60.0	48.4	11.58	5.182	
2,300.0	2,300.0	2,302.0	2,302.0	8.6	4.2	89.51		0.5	60.0	60.0	48.1	11.95	5.023	
2,400.0	2,400.0	2,402.0	2,402.0	8.9	4.3	89.51		0.5	60.0	60.0	47.7	12.32	4.873	
2,500.0	2,500.0	2,502.0	2,502.0	9.2	4.4	89.51		0.5	60.0	60.0	47.3	12.69	4.730 CC, ES	
2,600.0	2,600.0	2,602.0	2,602.0	9.6	4.5	179.53		0.5	60.0	61.8	48.7	13.05	4.731	
2,700.0	2,699.8	2,701.8	2,701.8	9.9	4.6	179.56		0.5	60.0	67.0	53.6	13.42	4.994	
2,800.0	2,799.5	2,801.5	2,801.5	10.2	4.7	179.61		0.5	60.0	75.7	61.9	13.78	5.495	
2,900.0	2,898.7	2,900.7	2,900.7	10.6	4.8	179.66		0.5	60.0	87.9	73.7	14.14	6.214	
2,912.4	2,911.0	2,913.0	2,913.0	10.6	4.8	179.67		0.5	60.0	89.7	75.5	14.19	6.318	
3,000.0	2,997.7	2,999.7	2,999.7	10.9	4.9	179.71		0.5	60.0	102.2	87.7	14.51	7.044	
3,100.0	3,096.6	3,098.6	3,098.6	11.2	5.0	179.75		0.5	60.0	116.6	101.7	14.88	7.834	
3,200.0	3,195.6	3,197.6	3,197.6	11.6	5.1	179.77		0.5	60.0	130.9	115.7	15.25	8.583	
3,300.0	3,294.6	3,296.6	3,296.6	11.9	5.2	179.80		0.5	60.0	145.3	129.6	15.63	9.296	
3,400.0	3,393.5	3,395.5	3,395.5	12.2	5.3	179.82		0.5	60.0	159.6	143.6	16.00	9.972	
3,500.0	3,492.5	3,494.5	3,494.5	12.6	5.4	179.83		0.5	60.0	173.9	157.6	16.38	10.616	
3,600.0	3,591.5	3,593.5	3,593.5	12.9	5.5	179.84		0.5	60.0	188.3	171.5	16.77	11.230	
3,700.0	3,690.4	3,692.4	3,692.4	13.3	5.6	179.85		0.5	60.0	202.6	185.5	17.15	11.814	
3,800.0	3,789.4	3,791.4	3,791.4	13.6	5.8	179.86		0.5	60.0	217.0	199.5	17.54	12.370	
3,900.0	3,888.4	3,890.4	3,890.4	14.0	5.9	179.87		0.5	60.0	231.3	213.4	17.93	12.902	
4,000.0	3,987.3	3,989.3	3,989.3	14.3	6.0	179.88		0.5	60.0	245.7	227.4	18.32	13.409	
4,100.0	4,086.3	4,088.3	4,088.3	14.7	6.1	179.89		0.5	60.0	260.0	241.3	18.72	13.894	
4,200.0	4,185.3	4,187.3	4,187.3	15.0	6.2	179.89		0.5	60.0	274.4	255.3	19.11	14.357	
4,300.0	4,284.2	4,286.2	4,286.2	15.4	6.3	179.90		0.5	60.0	288.7	269.2	19.51	14.800	
4,400.0	4,383.2	4,385.2	4,385.2	15.8	6.4	179.90		0.5	60.0	303.1	283.2	19.91	15.225	
4,500.0	4,482.2	4,484.2	4,484.2	16.1	6.6	179.91		0.5	60.0	317.4	297.1	20.31	15.632	
4,600.0	4,581.1	4,583.1	4,583.1	16.5	6.7	179.91		0.5	60.0	331.8	311.1	20.71	16.022	
4,700.0	4,680.1	4,682.1	4,682.1	16.8	6.8	179.91		0.5	60.0	346.1	325.0	21.11	16.396	
4,800.0	4,779.0	4,781.0	4,781.0	17.2	6.9	179.92		0.5	60.0	360.5	339.0	21.51	16.755	
4,900.0	4,878.0	4,880.0	4,880.0	17.5	7.0	179.92		0.5	60.0	374.8	352.9	21.92	17.100	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
5,000.0	4,977.0	4,979.0	4,979.0	17.9	7.1	179.92	0.5	60.0	389.2	366.8	22.33	17.431		
5,100.0	5,075.9	5,077.9	5,077.9	18.3	7.3	179.93	0.5	60.0	403.5	380.8	22.73	17.750		
5,200.0	5,174.9	5,176.9	5,176.9	18.6	7.4	179.93	0.5	60.0	417.9	394.7	23.14	18.057		
5,300.0	5,273.9	5,275.9	5,275.9	19.0	7.5	179.93	0.5	60.0	432.2	408.7	23.55	18.353		
5,400.0	5,372.8	5,374.8	5,374.8	19.3	7.6	179.93	0.5	60.0	446.6	422.6	23.96	18.637		
5,500.0	5,471.8	5,473.8	5,473.8	19.7	7.7	179.94	0.5	60.0	460.9	436.5	24.37	18.912		
5,600.0	5,570.8	5,585.1	5,585.0	20.1	7.9	179.86	1.1	58.9	474.3	449.5	24.82	19.112		
5,700.0	5,669.7	5,697.1	5,697.0	20.4	7.9	179.55	3.8	54.2	484.4	459.2	25.26	19.177		
5,800.0	5,768.7	5,796.7	5,796.3	20.8	8.0	179.22	6.7	49.0	493.6	468.0	25.68	19.224		
5,900.0	5,867.7	5,896.2	5,895.7	21.2	8.1	178.90	9.6	43.8	502.8	476.7	26.10	19.268		
6,000.0	5,966.6	5,995.7	5,995.0	21.5	8.2	178.59	12.5	38.6	512.0	485.5	26.52	19.311		
6,100.0	6,065.6	6,095.3	6,094.4	21.9	8.3	178.30	15.4	33.4	521.3	494.3	26.94	19.352		
6,200.0	6,164.6	6,194.8	6,193.8	22.3	8.3	178.01	18.3	28.2	530.5	503.1	27.36	19.391		
6,300.0	6,263.5	6,294.3	6,293.1	22.6	8.4	177.73	21.3	23.0	539.8	512.0	27.78	19.429		
6,400.0	6,362.5	6,393.9	6,392.5	23.0	8.5	177.46	24.2	17.8	549.0	520.8	28.21	19.465		
6,500.0	6,461.5	6,493.4	6,491.8	23.4	8.6	177.21	27.1	12.6	558.3	529.7	28.63	19.500		
6,600.0	6,560.4	6,593.0	6,591.2	23.7	8.7	176.96	30.0	7.3	567.6	538.5	29.06	19.533		
6,700.0	6,659.4	6,692.5	6,690.6	24.1	8.8	176.71	32.9	2.1	576.9	547.4	29.49	19.564		
6,800.0	6,758.4	6,792.0	6,789.9	24.5	8.9	176.48	35.8	-3.1	586.2	556.3	29.92	19.595		
6,900.0	6,857.3	6,891.6	6,889.3	24.8	9.0	176.25	38.8	-8.3	595.5	565.2	30.35	19.624		
7,000.0	6,956.3	6,991.1	6,988.6	25.2	9.0	176.03	41.7	-13.5	604.8	574.0	30.78	19.651		
7,100.0	7,055.3	7,090.6	7,088.0	25.6	9.1	175.82	44.6	-18.7	614.2	582.9	31.21	19.678		
7,200.0	7,154.2	7,190.2	7,187.4	25.9	9.2	175.61	47.5	-23.9	623.5	591.9	31.64	19.703		
7,300.0	7,253.2	7,289.7	7,286.7	26.3	9.3	175.41	50.4	-29.1	632.9	600.8	32.08	19.728		
7,400.0	7,352.1	7,389.3	7,386.1	26.7	9.4	175.21	53.3	-34.3	642.2	609.7	32.52	19.751		
7,500.0	7,451.1	7,488.8	7,485.4	27.0	9.5	175.03	56.3	-39.5	651.6	618.6	32.95	19.773		
7,600.0	7,550.1	7,588.3	7,584.8	27.4	9.6	174.84	59.2	-44.7	660.9	627.6	33.39	19.795		
7,700.0	7,649.0	7,687.9	7,684.1	27.8	9.7	174.66	62.1	-49.9	670.3	636.5	33.83	19.815		
7,800.0	7,748.0	7,787.4	7,783.5	28.1	9.8	174.49	65.0	-55.1	679.7	645.4	34.27	19.835		
7,900.0	7,847.0	7,886.9	7,882.9	28.5	9.9	174.32	67.9	-60.3	689.1	654.4	34.71	19.853		
8,000.0	7,945.9	7,986.5	7,982.2	28.9	10.0	174.15	70.8	-65.5	698.5	663.3	35.15	19.871		
8,100.0	8,044.9	8,086.0	8,081.6	29.2	10.1	173.99	73.7	-70.7	707.9	672.3	35.59	19.888		
8,200.0	8,143.9	8,185.6	8,180.9	29.6	10.2	173.84	76.7	-75.9	717.3	681.3	36.04	19.905		
8,300.0	8,242.8	8,285.1	8,280.3	30.0	10.3	173.68	79.6	-81.1	726.7	690.2	36.48	19.920		
8,400.0	8,341.8	8,384.6	8,379.7	30.3	10.4	173.54	82.5	-86.4	736.1	699.2	36.93	19.935		
8,500.0	8,440.8	8,484.2	8,479.0	30.7	10.5	173.39	85.4	-91.6	745.6	708.2	37.37	19.950		
8,600.0	8,539.7	8,583.7	8,578.4	31.1	10.6	173.25	88.3	-96.8	755.0	717.2	37.82	19.963		
8,700.0	8,638.7	8,683.3	8,677.7	31.5	10.7	173.11	91.2	-102.0	764.4	726.1	38.27	19.976		
8,800.0	8,737.7	8,782.8	8,777.1	31.8	10.8	172.98	94.2	-107.2	773.8	735.1	38.71	19.989		
8,900.0	8,836.6	8,882.3	8,876.5	32.2	10.9	172.85	97.1	-112.4	783.3	744.1	39.16	20.001		
9,000.0	8,935.6	8,981.9	8,975.8	32.6	11.0	172.72	100.0	-117.6	792.7	753.1	39.61	20.012		
9,100.0	9,034.6	9,081.4	9,075.2	32.9	11.2	172.60	102.9	-122.8	802.2	762.1	40.06	20.023		
9,200.0	9,133.5	9,180.9	9,174.5	33.3	11.3	172.47	105.8	-128.0	811.6	771.1	40.51	20.034		
9,300.0	9,232.5	9,280.5	9,273.9	33.7	11.4	172.36	108.7	-133.2	821.1	780.1	40.96	20.044		
9,400.0	9,331.5	9,380.0	9,373.2	34.0	11.5	172.24	111.7	-138.4	830.5	789.1	41.42	20.053		
9,500.0	9,430.4	9,479.6	9,472.6	34.4	11.6	172.13	114.6	-143.6	840.0	798.1	41.87	20.062		
9,600.0	9,529.4	9,579.1	9,572.0	34.8	11.7	172.01	117.5	-148.8	849.5	807.1	42.32	20.071		
9,675.7	9,604.3	9,654.5	9,647.2	35.1	11.8	171.93	119.7	-152.8	856.6	814.0	42.67	20.077		
9,700.0	9,628.4	9,678.6	9,671.3	35.2	11.8	171.91	120.4	-154.0	858.8	816.1	42.78	20.077		
9,800.0	9,727.7	9,778.4	9,770.9	35.5	11.9	171.80	123.3	-159.2	865.7	822.5	43.23	20.028		
9,900.0	9,827.3	9,878.3	9,870.6	35.9	12.0	171.65	126.3	-164.5	869.2	825.5	43.67	19.903		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)				
10,000.0	9,927.2	9,978.2	9,970.4	36.2	12.1	171.45	129.2	-169.7	869.2	825.1	44.11	19.706		
10,088.2	10,015.3	10,066.3	10,058.3	36.5	12.2	81.24	131.8	-174.3	866.4	821.9	44.48	19.476		
10,100.0	10,027.2	10,078.1	10,070.1	36.6	12.3	81.21	132.1	-174.9	865.8	821.3	44.53	19.442		
10,200.0	10,127.2	10,177.9	10,169.7	36.9	12.3	80.97	135.0	-180.1	861.1	816.2	44.92	19.171		
10,255.3	10,182.5	10,247.7	10,239.3	37.1	12.4	80.99	134.1	-183.8	858.2	813.1	45.14	19.012		
10,275.0	10,202.2	10,274.4	10,265.9	37.2	12.4	-98.66	131.1	-185.1	856.9	811.7	45.23	18.946		
10,300.0	10,227.1	10,308.2	10,299.1	37.3	12.4	-98.64	125.3	-186.8	855.2	809.9	45.35	18.859		
10,325.0	10,251.9	10,341.6	10,331.4	37.3	12.4	-98.59	117.2	-188.5	853.5	808.0	45.47	18.770		
10,350.0	10,276.6	10,374.6	10,362.8	37.4	12.4	-98.50	107.0	-190.0	851.8	806.2	45.60	18.679		
10,375.0	10,300.9	10,407.2	10,393.0	37.5	12.4	-98.39	94.9	-191.5	850.0	804.2	45.73	18.585		
10,400.0	10,325.0	10,439.4	10,421.9	37.6	12.4	-98.25	80.9	-193.0	848.1	802.3	45.87	18.491		
10,425.0	10,348.6	10,471.1	10,449.4	37.6	12.5	-98.08	65.2	-194.3	846.3	800.3	46.01	18.396		
10,450.0	10,371.8	10,502.2	10,475.4	37.7	12.5	-97.89	48.1	-195.5	844.5	798.4	46.15	18.302		
10,475.0	10,394.5	10,532.9	10,499.9	37.8	12.5	-97.67	29.5	-196.7	842.7	796.5	46.29	18.207		
10,500.0	10,416.6	10,563.1	10,522.7	37.9	12.5	-97.44	9.8	-197.8	841.0	794.6	46.43	18.113		
10,525.0	10,438.1	10,592.8	10,543.9	37.9	12.5	-97.18	-10.9	-198.8	839.3	792.7	46.57	18.021		
10,550.0	10,458.8	10,622.0	10,563.4	38.0	12.6	-96.90	-32.5	-199.6	837.6	790.9	46.72	17.930		
10,575.0	10,478.8	10,650.7	10,581.3	38.0	12.6	-96.61	-54.9	-200.4	836.0	789.2	46.86	17.841		
10,600.0	10,498.0	10,678.8	10,597.6	38.1	12.6	-96.31	-77.9	-201.1	834.5	787.5	47.00	17.754		
10,625.0	10,516.3	10,706.5	10,612.2	38.2	12.7	-95.98	-101.5	-201.8	833.1	785.9	47.15	17.669		
10,650.0	10,533.7	10,733.8	10,625.2	38.2	12.7	-95.65	-125.4	-202.3	831.7	784.4	47.29	17.588		
10,675.0	10,550.2	10,760.5	10,636.6	38.3	12.7	-95.30	-149.6	-202.7	830.5	783.0	47.43	17.509		
10,700.0	10,565.6	10,786.8	10,646.6	38.3	12.7	-94.94	-173.9	-203.1	829.3	781.7	47.57	17.434		
10,725.0	10,580.0	10,812.7	10,655.0	38.3	12.8	-94.57	-198.4	-203.4	828.3	780.6	47.71	17.362		
10,750.0	10,593.3	10,838.2	10,662.0	38.4	12.8	-94.19	-222.9	-203.6	827.4	779.5	47.84	17.294		
10,775.0	10,605.5	10,863.3	10,667.6	38.4	12.8	-93.81	-247.4	-203.7	826.5	778.6	47.97	17.230		
10,800.0	10,616.5	10,888.1	10,671.9	38.5	12.8	-93.41	-271.7	-203.8	825.9	777.8	48.10	17.170		
10,825.0	10,626.3	10,912.4	10,674.8	38.5	12.9	-93.01	-295.9	-203.8	825.3	777.1	48.22	17.114		
10,850.0	10,634.9	10,936.5	10,676.5	38.5	12.9	-92.60	-319.9	-203.8	824.8	776.5	48.34	17.063		
10,875.0	10,642.3	10,960.2	10,677.0	38.6	12.9	-92.19	-343.6	-203.6	824.5	776.0	48.45	17.016		
10,900.0	10,648.4	10,984.4	10,677.0	38.6	12.9	-91.81	-367.9	-203.5	824.3	775.7	48.57	16.969		
10,925.0	10,653.2	11,009.0	10,677.0	38.6	12.9	-91.50	-392.4	-203.3	824.1	775.4	48.70	16.923		
10,950.0	10,656.8	11,033.7	10,677.0	38.7	13.0	-91.26	-417.1	-203.2	824.1	775.2	48.83	16.876		
10,975.0	10,659.0	11,058.6	10,677.0	38.7	13.0	-91.11	-442.0	-203.0	824.0	775.0	48.96	16.830		
11,000.0	10,659.9	11,083.6	10,677.0	38.7	13.0	-91.05	-467.0	-202.9	824.0	774.9	49.09	16.785		
11,004.9	10,660.0	11,088.5	10,677.0	38.7	13.0	-91.05	-471.9	-202.8	824.0	774.9	49.12	16.776		
11,005.3	10,660.0	11,088.9	10,677.0	38.7	13.0	-91.05	-472.3	-202.8	824.0	774.9	49.12	16.775		
11,100.0	10,660.0	11,183.6	10,677.0	38.9	13.1	-91.05	-567.0	-202.2	824.0	774.3	49.66	16.592		
11,200.0	10,660.0	11,283.6	10,677.0	39.0	13.3	-91.05	-667.0	-201.6	824.0	773.7	50.30	16.382		
11,300.0	10,660.0	11,383.6	10,677.0	39.2	13.5	-91.05	-767.0	-201.0	824.0	773.0	50.99	16.159		
11,400.0	10,660.0	11,483.6	10,677.0	39.4	13.8	-91.05	-867.0	-200.4	824.0	772.3	51.74	15.926		
11,500.0	10,660.0	11,583.6	10,677.0	39.6	14.2	-91.05	-967.0	-199.7	824.0	771.5	52.53	15.685		
11,600.0	10,660.0	11,683.6	10,677.0	39.8	14.6	-91.05	-1,067.0	-199.1	824.0	770.6	53.37	15.439		
11,700.0	10,660.0	11,783.6	10,677.0	40.0	15.2	-91.05	-1,167.0	-198.5	824.0	769.8	54.25	15.189		
11,800.0	10,660.0	11,883.6	10,677.0	40.2	15.7	-91.05	-1,267.0	-197.9	824.0	768.8	55.17	14.937		
11,900.0	10,660.0	11,983.6	10,677.0	40.5	16.3	-91.05	-1,367.0	-197.3	824.0	767.9	56.11	14.684		
12,000.0	10,660.0	12,083.6	10,677.0	40.8	17.0	-91.05	-1,467.0	-196.6	824.0	766.9	57.10	14.432		
12,100.0	10,660.0	12,183.6	10,677.0	41.0	17.7	-91.05	-1,567.0	-196.0	824.0	765.9	58.11	14.181		
12,200.0	10,660.0	12,283.6	10,677.0	41.3	18.4	-91.05	-1,667.0	-195.4	824.0	764.9	59.14	13.932		
12,300.0	10,660.0	12,383.6	10,677.0	41.6	19.1	-91.05	-1,767.0	-194.8	824.0	763.8	60.21	13.686		
12,400.0	10,660.0	12,483.6	10,677.0	42.0	19.8	-91.05	-1,867.0	-194.1	824.0	762.7	61.30	13.443		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
12,500.0	10,660.0	12,583.6	10,677.0	42.3	20.6	-91.05	-91.05	-1,967.0	-193.5	824.0	761.6	62.41	13.204	
12,600.0	10,660.0	12,683.6	10,677.0	42.7	21.4	-91.05	-91.05	-2,067.0	-192.9	824.0	760.5	63.54	12.969	
12,700.0	10,660.0	12,783.6	10,677.0	43.0	22.1	-91.05	-91.05	-2,167.0	-192.3	824.0	759.3	64.69	12.737	
12,800.0	10,660.0	12,883.6	10,677.0	43.4	22.9	-91.05	-91.05	-2,267.0	-191.6	824.0	758.2	65.87	12.511	
12,900.0	10,660.0	12,983.6	10,677.0	43.8	23.7	-91.05	-91.05	-2,367.0	-191.0	824.0	757.0	67.06	12.288	
13,000.0	10,660.0	13,083.6	10,677.0	44.2	24.5	-91.05	-91.05	-2,467.0	-190.4	824.0	755.8	68.27	12.071	
13,100.0	10,660.0	13,183.6	10,677.0	44.7	25.3	-91.05	-91.05	-2,567.0	-189.8	824.0	754.5	69.49	11.857	
13,200.0	10,660.0	13,283.6	10,677.0	45.1	26.1	-91.05	-91.05	-2,667.0	-189.1	824.0	753.3	70.74	11.649	
13,300.0	10,660.0	13,383.6	10,677.0	45.5	26.9	-91.05	-91.05	-2,767.0	-188.5	824.0	752.0	72.00	11.446	
13,400.0	10,660.0	13,483.6	10,677.0	46.0	27.7	-91.05	-91.05	-2,867.0	-187.9	824.0	750.8	73.27	11.247	
13,500.0	10,660.0	13,583.6	10,677.0	46.5	28.5	-91.05	-91.05	-2,967.0	-187.3	824.0	749.5	74.56	11.052	
13,600.0	10,660.0	13,683.6	10,677.0	46.9	29.3	-91.05	-91.05	-3,066.9	-186.7	824.0	748.2	75.86	10.863	
13,700.0	10,660.0	13,783.6	10,677.0	47.4	30.1	-91.05	-91.05	-3,166.9	-186.0	824.0	746.9	77.17	10.678	
13,800.0	10,660.0	13,883.6	10,677.0	47.9	31.0	-91.05	-91.05	-3,266.9	-185.4	824.0	745.5	78.50	10.497	
13,900.0	10,660.0	13,983.6	10,677.0	48.4	31.8	-91.05	-91.05	-3,366.9	-184.8	824.0	744.2	79.84	10.321	
14,000.0	10,660.0	14,083.6	10,677.0	49.0	32.6	-91.05	-91.05	-3,466.9	-184.2	824.0	742.8	81.19	10.149	
14,100.0	10,660.0	14,183.6	10,677.0	49.5	33.4	-91.05	-91.05	-3,566.9	-183.5	824.0	741.5	82.55	9.982	
14,200.0	10,660.0	14,283.6	10,677.0	50.0	34.3	-91.05	-91.05	-3,666.9	-182.9	824.0	740.1	83.93	9.818	
14,300.0	10,660.0	14,383.6	10,677.0	50.6	35.1	-91.05	-91.05	-3,766.9	-182.3	824.0	738.7	85.31	9.659	
14,400.0	10,660.0	14,483.6	10,677.0	51.1	35.9	-91.05	-91.05	-3,866.9	-181.7	824.0	737.3	86.70	9.504	
14,500.0	10,660.0	14,583.6	10,677.0	51.7	36.8	-91.05	-91.05	-3,966.9	-181.0	824.0	735.9	88.11	9.353	
14,600.0	10,660.0	14,683.6	10,677.0	52.3	37.6	-91.05	-91.05	-4,066.9	-180.4	824.0	734.5	89.52	9.205	
14,700.0	10,660.0	14,783.6	10,677.0	52.9	38.4	-91.05	-91.05	-4,166.9	-179.8	824.0	733.1	90.94	9.061	
14,800.0	10,660.0	14,883.6	10,677.0	53.4	39.3	-91.05	-91.05	-4,266.9	-179.2	824.0	731.7	92.37	8.921	
14,900.0	10,660.0	14,983.6	10,677.0	54.0	40.1	-91.05	-91.05	-4,366.9	-178.5	824.0	730.2	93.81	8.784	
15,000.0	10,660.0	15,083.6	10,677.0	54.6	40.9	-91.05	-91.05	-4,466.9	-177.9	824.0	728.8	95.26	8.651	
15,100.0	10,660.0	15,183.6	10,677.0	55.2	41.8	-91.05	-91.05	-4,566.9	-177.3	824.1	727.3	96.71	8.521	
15,200.0	10,660.0	15,283.6	10,677.0	55.9	42.6	-91.05	-91.05	-4,666.9	-176.7	824.1	725.9	98.17	8.394	
15,300.0	10,660.0	15,383.6	10,677.0	56.5	43.5	-91.05	-91.05	-4,766.9	-176.1	824.1	724.4	99.64	8.270	
15,400.0	10,660.0	15,483.6	10,677.0	57.1	44.3	-91.05	-91.05	-4,866.9	-175.4	824.1	722.9	101.11	8.150	
15,500.0	10,660.0	15,583.6	10,677.0	57.7	45.1	-91.05	-91.05	-4,966.9	-174.8	824.1	721.5	102.60	8.032	
15,600.0	10,660.0	15,683.6	10,677.0	58.4	46.0	-91.05	-91.05	-5,066.9	-174.2	824.1	720.0	104.08	7.917	
15,700.0	10,660.0	15,783.6	10,677.0	59.0	46.8	-91.05	-91.05	-5,166.9	-173.6	824.1	718.5	105.58	7.805	
15,800.0	10,660.0	15,883.6	10,677.0	59.7	47.7	-91.05	-91.05	-5,266.9	-172.9	824.1	717.0	107.08	7.696	
15,900.0	10,660.0	15,983.6	10,677.0	60.3	48.5	-91.05	-91.05	-5,366.9	-172.3	824.1	715.5	108.58	7.589	
16,000.0	10,660.0	16,083.6	10,677.0	61.0	49.4	-91.05	-91.05	-5,466.9	-171.7	824.1	714.0	110.10	7.485	
16,100.0	10,660.0	16,183.6	10,677.0	61.7	50.2	-91.05	-91.05	-5,566.9	-171.1	824.1	712.5	111.61	7.383	
16,200.0	10,660.0	16,283.6	10,677.0	62.3	51.1	-91.05	-91.05	-5,666.9	-170.4	824.1	710.9	113.14	7.284	
16,300.0	10,660.0	16,383.6	10,677.0	63.0	51.9	-91.05	-91.05	-5,766.9	-169.8	824.1	709.4	114.66	7.187	
16,400.0	10,660.0	16,483.6	10,677.0	63.7	52.8	-91.05	-91.05	-5,866.9	-169.2	824.1	707.9	116.19	7.092	
16,500.0	10,660.0	16,583.6	10,677.0	64.4	53.6	-91.05	-91.05	-5,966.9	-168.6	824.1	706.3	117.73	7.000	
16,600.0	10,660.0	16,683.6	10,677.0	65.1	54.5	-91.05	-91.05	-6,066.9	-168.0	824.1	704.8	119.27	6.909	
16,700.0	10,660.0	16,783.6	10,677.0	65.8	55.3	-91.05	-91.05	-6,166.9	-167.3	824.1	703.3	120.82	6.821	
16,800.0	10,660.0	16,883.6	10,677.0	66.4	56.2	-91.05	-91.05	-6,266.9	-166.7	824.1	701.7	122.37	6.734	
16,900.0	10,660.0	16,983.6	10,677.0	67.1	57.0	-91.04	-91.04	-6,366.9	-166.1	824.1	700.2	123.92	6.650	
17,000.0	10,660.0	17,083.6	10,677.0	67.8	57.9	-91.04	-91.04	-6,466.9	-165.5	824.1	698.6	125.48	6.567	
17,100.0	10,660.0	17,183.6	10,677.0	68.6	58.7	-91.04	-91.04	-6,566.9	-164.8	824.1	697.0	127.04	6.487	
17,200.0	10,660.0	17,283.6	10,677.0	69.3	59.6	-91.04	-91.04	-6,666.9	-164.2	824.1	695.5	128.61	6.408	
17,300.0	10,660.0	17,383.6	10,677.0	70.0	60.4	-91.04	-91.04	-6,766.9	-163.6	824.1	693.9	130.18	6.331	
17,400.0	10,660.0	17,483.6	10,677.0	70.7	61.3	-91.04	-91.04	-6,866.9	-163.0	824.1	692.3	131.75	6.255	
17,500.0	10,660.0	17,583.6	10,677.0	71.4	62.1	-91.04	-91.04	-6,966.9	-162.3	824.1	690.8	133.32	6.181	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
17,600.0	10,660.0	17,683.6	10,677.0	72.1	63.0	-91.04	-7,066.9	-161.7	824.1	689.2	134.90	6.109	
17,700.0	10,660.0	17,783.6	10,677.0	72.9	63.8	-91.04	-7,166.9	-161.1	824.1	687.6	136.48	6.038	
17,800.0	10,660.0	17,883.6	10,677.0	73.6	64.7	-91.04	-7,266.9	-160.5	824.1	686.0	138.07	5.969	
17,900.0	10,660.0	17,983.6	10,677.0	74.3	65.5	-91.04	-7,366.9	-159.8	824.1	684.4	139.66	5.901	
18,000.0	10,660.0	18,083.6	10,677.0	75.1	66.4	-91.04	-7,466.9	-159.2	824.1	682.8	141.25	5.834	
18,100.0	10,660.0	18,183.6	10,677.0	75.8	67.2	-91.04	-7,566.9	-158.6	824.1	681.3	142.84	5.769	
18,200.0	10,660.0	18,283.6	10,677.0	76.5	68.1	-91.04	-7,666.9	-158.0	824.1	679.7	144.44	5.705	
18,300.0	10,660.0	18,383.6	10,677.0	77.3	68.9	-91.04	-7,766.9	-157.4	824.1	678.1	146.04	5.643	
18,400.0	10,660.0	18,483.6	10,677.0	78.0	69.8	-91.04	-7,866.9	-156.7	824.1	676.5	147.64	5.582	
18,500.0	10,660.0	18,583.6	10,677.0	78.8	70.6	-91.04	-7,966.9	-156.1	824.1	674.9	149.25	5.522	
18,600.0	10,660.0	18,683.6	10,677.0	79.5	71.5	-91.04	-8,066.9	-155.5	824.1	673.2	150.85	5.463	
18,700.0	10,660.0	18,783.6	10,677.0	80.3	72.4	-91.04	-8,166.8	-154.9	824.1	671.6	152.46	5.405	
18,800.0	10,660.0	18,883.6	10,677.0	81.0	73.2	-91.04	-8,266.8	-154.2	824.1	670.0	154.07	5.349	
18,900.0	10,660.0	18,983.6	10,677.0	81.8	74.1	-91.04	-8,366.8	-153.6	824.1	668.4	155.69	5.293	
19,000.0	10,660.0	19,083.6	10,677.0	82.5	74.9	-91.04	-8,466.8	-153.0	824.1	666.8	157.30	5.239	
19,100.0	10,660.0	19,183.6	10,677.0	83.3	75.8	-91.04	-8,566.8	-152.4	824.1	665.2	158.92	5.186	
19,200.0	10,660.0	19,283.6	10,677.0	84.1	76.6	-91.04	-8,666.8	-151.7	824.1	663.6	160.54	5.133	
19,300.0	10,660.0	19,383.6	10,677.0	84.8	77.5	-91.04	-8,766.8	-151.1	824.1	661.9	162.16	5.082	
19,400.0	10,660.0	19,483.6	10,677.0	85.6	78.3	-91.04	-8,866.8	-150.5	824.1	660.3	163.79	5.032	
19,500.0	10,660.0	19,583.6	10,677.0	86.4	79.2	-91.04	-8,966.8	-149.9	824.1	658.7	165.41	4.982	
19,600.0	10,660.0	19,683.6	10,677.0	87.1	80.1	-91.04	-9,066.8	-149.2	824.1	657.1	167.04	4.934	
19,700.0	10,660.0	19,783.6	10,677.0	87.9	80.9	-91.04	-9,166.8	-148.6	824.1	655.4	168.67	4.886	
19,800.0	10,660.0	19,883.6	10,677.0	88.7	81.8	-91.04	-9,266.8	-148.0	824.1	653.8	170.30	4.839	
19,900.0	10,660.0	19,983.6	10,677.0	89.5	82.6	-91.04	-9,366.8	-147.4	824.1	652.2	171.93	4.793	
20,000.0	10,660.0	20,083.6	10,677.0	90.2	83.5	-91.04	-9,466.8	-146.8	824.1	650.6	173.57	4.748	
20,100.0	10,660.0	20,183.6	10,677.0	91.0	84.3	-91.04	-9,566.8	-146.1	824.1	648.9	175.20	4.704	
20,200.0	10,660.0	20,283.6	10,677.0	91.8	85.2	-91.04	-9,666.8	-145.5	824.1	647.3	176.84	4.660	
20,300.0	10,660.0	20,383.6	10,677.0	92.6	86.0	-91.04	-9,766.8	-144.9	824.1	645.6	178.48	4.618	
20,400.0	10,660.0	20,483.6	10,677.0	93.3	86.9	-91.04	-9,866.8	-144.3	824.1	644.0	180.12	4.575	
20,500.0	10,660.0	20,583.6	10,677.0	94.1	87.8	-91.04	-9,966.8	-143.6	824.1	642.4	181.76	4.534	
20,600.0	10,660.0	20,683.6	10,677.0	94.9	88.6	-91.04	-10,066.8	-143.0	824.1	640.7	183.40	4.494	
20,700.0	10,660.0	20,783.6	10,677.0	95.7	89.5	-91.04	-10,166.8	-142.4	824.1	639.1	185.05	4.454	
20,744.6	10,660.0	20,828.2	10,677.0	96.1	89.9	-91.04	-10,211.4	-142.1	824.1	638.3	185.78	4.436 SF	

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.0	1.0	3.0	3.0	89.54	0.2	30.0	30.1					
100.0	100.0	101.0	101.0	3.0	3.0	89.54	0.2	30.0	30.1	24.0	6.00	5.006		
200.0	200.0	201.0	201.0	3.0	3.0	89.54	0.2	30.0	30.1	24.0	6.04	4.974		
300.0	300.0	301.0	301.0	3.1	3.0	89.54	0.2	30.0	30.1	23.9	6.12	4.908		
400.0	400.0	401.0	401.0	3.2	3.0	89.54	0.2	30.0	30.1	23.8	6.24	4.813		
500.0	500.0	501.0	501.0	3.4	3.1	89.54	0.2	30.0	30.1	23.7	6.40	4.695		
600.0	600.0	601.0	601.0	3.6	3.1	89.54	0.2	30.0	30.1	23.5	6.59	4.561		
700.0	700.0	701.0	701.0	3.8	3.1	89.54	0.2	30.0	30.1	23.2	6.80	4.417		
800.0	800.0	801.0	801.0	4.0	3.2	89.54	0.2	30.0	30.1	23.0	7.04	4.267		
900.0	900.0	901.0	901.0	4.2	3.2	89.54	0.2	30.0	30.1	22.8	7.30	4.116		
1,000.0	1,000.0	1,001.0	1,001.0	4.5	3.2	89.54	0.2	30.0	30.1	22.5	7.58	3.967		
1,100.0	1,100.0	1,101.0	1,101.0	4.8	3.3	89.54	0.2	30.0	30.1	22.2	7.86	3.821		
1,200.0	1,200.0	1,201.0	1,201.0	5.1	3.4	89.54	0.2	30.0	30.1	21.9	8.17	3.680		
1,300.0	1,300.0	1,301.0	1,301.0	5.4	3.4	89.54	0.2	30.0	30.1	21.6	8.48	3.545		
1,400.0	1,400.0	1,401.0	1,401.0	5.7	3.5	89.54	0.2	30.0	30.1	21.3	8.80	3.416		
1,500.0	1,500.0	1,501.0	1,501.0	6.0	3.5	89.54	0.2	30.0	30.1	20.9	9.13	3.293		
1,600.0	1,600.0	1,601.0	1,601.0	6.3	3.6	89.54	0.2	30.0	30.1	20.6	9.46	3.176		
1,700.0	1,700.0	1,701.0	1,701.0	6.6	3.7	89.54	0.2	30.0	30.1	20.2	9.80	3.066		
1,800.0	1,800.0	1,801.0	1,801.0	6.9	3.8	89.54	0.2	30.0	30.1	19.9	10.15	2.961		
1,900.0	1,900.0	1,901.0	1,901.0	7.2	3.9	89.54	0.2	30.0	30.1	19.5	10.50	2.862		
2,000.0	2,000.0	2,001.0	2,001.0	7.6	3.9	89.54	0.2	30.0	30.1	19.2	10.86	2.768		
2,100.0	2,100.0	2,101.0	2,101.0	7.9	4.0	89.54	0.2	30.0	30.1	18.8	11.22	2.679		
2,200.0	2,200.0	2,201.0	2,201.0	8.2	4.1	89.54	0.2	30.0	30.1	18.5	11.58	2.595		
2,300.0	2,300.0	2,301.0	2,301.0	8.6	4.2	89.54	0.2	30.0	30.1	18.1	11.95	2.516		
2,400.0	2,400.0	2,401.0	2,401.0	8.9	4.3	89.54	0.2	30.0	30.1	17.7	12.32	2.440		
2,500.0	2,500.0	2,501.0	2,501.0	9.2	4.4	89.54	0.2	30.0	30.1	17.4	12.69	2.368		
2,564.8	2,564.8	2,566.4	2,566.4	9.5	4.4	179.23	0.4	29.3	30.0	17.1	12.92	2.325 CC		
2,600.0	2,600.0	2,602.0	2,602.0	9.6	4.5	178.81	0.6	28.3	30.0	17.0	13.05	2.302		
2,700.0	2,699.8	2,703.1	2,702.9	9.9	4.5	176.66	1.8	23.0	30.1	16.7	13.39	2.249		
2,800.0	2,799.5	2,804.1	2,803.5	10.2	4.6	173.12	3.6	14.3	30.4	16.6	13.73	2.210 ES, SF		
2,900.0	2,898.7	2,904.5	2,903.2	10.6	4.6	168.72	6.1	2.7	31.4	17.3	14.09	2.226		
2,912.4	2,911.0	2,916.9	2,915.6	10.6	4.6	168.25	6.5	1.2	31.7	17.6	14.14	2.242		
3,000.0	2,997.7	3,004.4	3,002.4	10.9	4.7	165.30	8.7	-9.2	34.3	19.8	14.47	2.371		
3,100.0	3,096.6	3,104.4	3,101.6	11.2	4.7	162.45	11.3	-21.1	37.4	22.5	14.85	2.517		
3,200.0	3,195.6	3,204.3	3,200.8	11.6	4.8	160.03	13.8	-33.0	40.5	25.3	15.24	2.660		
3,300.0	3,294.6	3,304.2	3,300.0	11.9	4.8	157.97	16.4	-44.9	43.7	28.1	15.62	2.800		
3,400.0	3,393.5	3,404.2	3,399.2	12.2	4.9	156.19	19.0	-56.8	47.0	31.0	16.01	2.935		
3,500.0	3,492.5	3,504.1	3,498.4	12.6	5.0	154.64	21.5	-68.8	50.3	33.9	16.40	3.067		
3,600.0	3,591.5	3,604.0	3,597.6	12.9	5.1	153.28	24.1	-80.7	53.6	36.8	16.79	3.193		
3,700.0	3,690.4	3,704.0	3,696.7	13.3	5.1	152.08	26.7	-92.6	57.0	39.8	17.19	3.315		
3,800.0	3,789.4	3,803.9	3,795.9	13.6	5.2	151.02	29.2	-104.5	60.4	42.8	17.58	3.433		
3,900.0	3,888.4	3,903.9	3,895.1	14.0	5.3	150.07	31.8	-116.4	63.7	45.8	17.98	3.545		
4,000.0	3,987.3	4,003.8	3,994.3	14.3	5.4	149.21	34.4	-128.3	67.2	48.8	18.38	3.653		
4,100.0	4,086.3	4,103.7	4,093.5	14.7	5.5	148.44	36.9	-140.2	70.6	51.8	18.79	3.757		
4,200.0	4,185.3	4,203.7	4,192.7	15.0	5.5	147.74	39.5	-152.1	74.0	54.8	19.20	3.856		
4,300.0	4,284.2	4,303.6	4,291.9	15.4	5.6	147.10	42.1	-164.0	77.5	57.9	19.61	3.952		
4,400.0	4,383.2	4,403.5	4,391.1	15.8	5.7	146.52	44.6	-175.9	80.9	60.9	20.02	4.043		
4,500.0	4,482.2	4,503.5	4,490.3	16.1	5.8	145.98	47.2	-187.8	84.4	64.0	20.43	4.130		
4,600.0	4,581.1	4,603.4	4,589.5	16.5	5.9	145.49	49.8	-199.7	87.9	67.0	20.85	4.214		
4,700.0	4,680.1	4,703.4	4,688.7	16.8	6.0	145.03	52.3	-211.6	91.3	70.1	21.27	4.294		
4,800.0	4,779.0	4,803.3	4,787.9	17.2	6.1	144.61	54.9	-223.5	94.8	73.1	21.69	4.371		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)				
4,900.0	4,878.0	4,903.2	4,887.1	17.5	6.2	144.22	57.4	-235.4	98.3	76.2	22.12	4.445		
5,000.0	4,977.0	5,003.2	4,986.2	17.9	6.3	143.85	60.0	-247.3	101.8	79.3	22.55	4.515		
5,100.0	5,075.9	5,103.1	5,085.4	18.3	6.4	143.51	62.6	-259.2	105.3	82.3	22.97	4.583		
5,200.0	5,174.9	5,203.0	5,184.6	18.6	6.5	143.19	65.1	-271.2	108.8	85.4	23.41	4.648		
5,300.0	5,273.9	5,303.0	5,283.8	19.0	6.6	142.89	67.7	-283.1	112.3	88.5	23.84	4.710		
5,400.0	5,372.8	5,402.9	5,383.0	19.3	6.7	142.61	70.3	-295.0	115.8	91.5	24.28	4.770		
5,500.0	5,471.8	5,502.9	5,482.2	19.7	6.8	142.34	72.8	-306.9	119.3	94.6	24.72	4.827		
5,600.0	5,570.8	5,602.8	5,581.4	20.1	6.9	142.09	75.4	-318.8	122.8	97.7	25.16	4.882		
5,700.0	5,669.7	5,702.7	5,680.6	20.4	7.0	141.86	78.0	-330.7	126.3	100.7	25.60	4.934		
5,800.0	5,768.7	5,802.7	5,779.8	20.8	7.1	141.63	80.5	-342.6	129.8	103.8	26.05	4.985		
5,900.0	5,867.7	5,902.6	5,879.0	21.2	7.2	141.42	83.1	-354.5	133.4	106.9	26.49	5.034		
6,000.0	5,966.6	6,002.5	5,978.2	21.5	7.3	141.22	85.7	-366.4	136.9	109.9	26.94	5.080		
6,100.0	6,065.6	6,102.5	6,077.4	21.9	7.5	141.03	88.2	-378.3	140.4	113.0	27.39	5.125		
6,200.0	6,164.6	6,202.4	6,176.6	22.3	7.6	140.85	90.8	-390.2	143.9	116.1	27.85	5.168		
6,300.0	6,263.5	6,302.3	6,275.7	22.6	7.7	140.68	93.4	-402.1	147.4	119.1	28.30	5.209		
6,400.0	6,362.5	6,402.3	6,374.9	23.0	7.8	140.51	95.9	-414.0	151.0	122.2	28.76	5.249		
6,500.0	6,461.5	6,502.2	6,474.1	23.4	7.9	140.36	98.5	-425.9	154.5	125.3	29.22	5.287		
6,600.0	6,560.4	6,602.2	6,573.3	23.7	8.0	140.21	101.1	-437.8	158.0	128.3	29.68	5.324		
6,700.0	6,659.4	6,702.1	6,672.5	24.1	8.1	140.06	103.6	-449.7	161.5	131.4	30.14	5.360		
6,800.0	6,758.4	6,802.0	6,771.7	24.5	8.3	139.93	106.2	-461.6	165.1	134.5	30.60	5.394		
6,900.0	6,857.3	6,902.0	6,870.9	24.8	8.4	139.80	108.8	-473.6	168.6	137.5	31.07	5.427		
7,000.0	6,956.3	7,001.9	6,970.1	25.2	8.5	139.67	111.3	-485.5	172.1	140.6	31.53	5.458		
7,100.0	7,055.3	7,101.8	7,069.3	25.6	8.6	139.55	113.9	-497.4	175.6	143.6	32.00	5.489		
7,200.0	7,154.2	7,201.8	7,168.5	25.9	8.7	139.43	116.5	-509.3	179.2	146.7	32.47	5.518		
7,300.0	7,253.2	7,301.7	7,267.7	26.3	8.8	139.32	119.0	-521.2	182.7	149.8	32.94	5.546		
7,400.0	7,352.1	7,401.7	7,366.9	26.7	9.0	139.21	121.6	-533.1	186.2	152.8	33.42	5.573		
7,500.0	7,451.1	7,501.6	7,466.0	27.0	9.1	139.11	124.2	-545.0	189.8	155.9	33.89	5.600		
7,600.0	7,550.1	7,601.5	7,565.2	27.4	9.2	139.01	126.7	-556.9	193.3	158.9	34.37	5.625		
7,700.0	7,649.0	7,701.5	7,664.4	27.8	9.3	138.91	129.3	-568.8	196.8	162.0	34.84	5.649		
7,800.0	7,748.0	7,801.4	7,763.6	28.1	9.4	138.82	131.8	-580.7	200.4	165.1	35.32	5.673		
7,900.0	7,847.0	7,901.3	7,862.8	28.5	9.6	138.73	134.4	-592.6	203.9	168.1	35.80	5.696		
8,000.0	7,945.9	8,000.0	7,960.8	28.9	9.7	138.73	136.9	-604.0	207.7	171.4	36.28	5.725		
8,100.0	8,044.9	8,094.9	8,055.3	29.2	9.8	139.33	138.6	-612.3	213.2	176.4	36.74	5.803		
8,200.0	8,143.9	8,190.0	8,150.3	29.6	9.9	140.54	139.8	-617.5	220.8	183.6	37.17	5.939		
8,300.0	8,242.8	8,284.6	8,244.8	30.0	10.0	142.28	140.2	-619.6	230.6	193.0	37.58	6.135		
8,400.0	8,341.8	8,382.6	8,342.8	30.3	10.1	144.32	140.2	-619.6	242.1	204.1	37.99	6.371		
8,500.0	8,440.8	8,481.5	8,441.8	30.7	10.2	146.20	140.2	-619.6	253.9	215.5	38.41	6.611		
8,600.0	8,539.7	8,580.5	8,540.7	31.1	10.3	147.91	140.2	-619.6	266.0	227.2	38.82	6.851		
8,700.0	8,638.7	8,679.5	8,639.7	31.5	10.4	149.48	140.2	-619.6	278.3	239.0	39.24	7.092		
8,800.0	8,737.7	8,778.4	8,738.7	31.8	10.5	150.91	140.2	-619.6	290.8	251.1	39.66	7.332		
8,900.0	8,836.6	8,877.4	8,837.6	32.2	10.6	152.23	140.2	-619.6	303.4	263.3	40.08	7.570		
9,000.0	8,935.6	8,976.4	8,936.6	32.6	10.7	153.43	140.2	-619.6	316.2	275.7	40.50	7.807		
9,100.0	9,034.6	9,075.3	9,035.6	32.9	10.8	154.55	140.2	-619.6	329.1	288.2	40.92	8.042		
9,200.0	9,133.5	9,174.3	9,134.5	33.3	10.9	155.58	140.2	-619.6	342.2	300.8	41.35	8.275		
9,300.0	9,232.5	9,273.3	9,233.5	33.7	11.0	156.53	140.2	-619.6	355.3	313.5	41.77	8.506		
9,400.0	9,331.5	9,372.2	9,332.5	34.0	11.1	157.42	140.2	-619.6	368.5	326.3	42.20	8.734		
9,500.0	9,430.4	9,471.2	9,431.4	34.4	11.2	158.25	140.2	-619.6	381.8	339.2	42.62	8.959		
9,600.0	9,529.4	9,570.2	9,530.4	34.8	11.3	159.02	140.2	-619.6	395.2	352.2	43.04	9.181		
9,675.7	9,604.3	9,645.1	9,605.3	35.1	11.4	159.57	140.2	-619.6	405.4	362.0	43.37	9.348		
9,700.0	9,628.4	9,669.1	9,629.4	35.2	11.4	159.75	140.2	-619.6	408.6	365.1	43.47	9.399		
9,800.0	9,727.7	9,768.4	9,728.7	35.5	11.5	160.38	140.2	-619.6	419.6	375.7	43.89	9.561		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error: 3.0 usft		
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR				Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.0	9,827.3	9,868.1	9,828.3	35.9	11.6	160.81	140.2	-619.6	427.5	383.2	44.30	9.650			
10,000.0	9,927.2	9,968.0	9,928.2	36.2	11.7	161.05	140.2	-619.6	432.0	387.3	44.70	9.665			
10,088.2	10,015.3	10,056.1	10,016.3	36.5	11.8	71.12	140.2	-619.6	433.3	388.3	45.03	9.622			
10,100.0	10,027.2	10,068.0	10,028.2	36.6	11.8	71.12	140.2	-619.6	433.3	388.2	45.08	9.613			
10,200.0	10,127.2	10,193.1	10,152.8	36.9	11.8	72.18	131.8	-619.6	431.4	385.7	45.67	9.447			
10,255.3	10,182.5	10,265.4	10,222.5	37.1	11.8	74.60	113.0	-619.5	427.2	381.1	46.09	9.269			
10,275.0	10,202.2	10,289.7	10,245.2	37.2	11.9	-104.18	104.3	-619.4	425.5	379.2	46.24	9.200			
10,300.0	10,227.1	10,319.8	10,272.7	37.3	11.9	-103.06	92.0	-619.3	423.3	376.9	46.43	9.117			
10,325.0	10,251.9	10,349.2	10,298.7	37.3	11.9	-101.91	78.3	-619.3	421.2	374.6	46.60	9.039			
10,350.0	10,276.6	10,377.7	10,323.1	37.4	11.9	-100.74	63.5	-619.2	419.3	372.5	46.77	8.965			
10,375.0	10,300.9	10,405.6	10,346.0	37.5	11.9	-99.55	47.7	-619.1	417.6	370.6	46.93	8.897			
10,400.0	10,325.0	10,432.7	10,367.4	37.6	12.0	-98.35	31.0	-619.0	416.0	368.9	47.08	8.835			
10,425.0	10,348.6	10,459.2	10,387.3	37.6	12.0	-97.14	13.6	-618.8	414.6	367.4	47.22	8.780			
10,450.0	10,371.8	10,485.0	10,405.9	37.7	12.0	-95.92	-4.4	-618.7	413.4	366.1	47.35	8.731			
10,475.0	10,394.5	10,510.3	10,423.0	37.8	12.0	-94.70	-23.0	-618.6	412.5	365.0	47.48	8.688			
10,500.0	10,416.6	10,535.1	10,438.8	37.9	12.1	-93.48	-42.1	-618.5	411.8	364.2	47.59	8.653			
10,525.0	10,438.1	10,559.3	10,453.3	37.9	12.1	-92.25	-61.5	-618.4	411.2	363.6	47.69	8.623			
10,550.0	10,458.8	10,583.1	10,466.5	38.0	12.1	-91.03	-81.2	-618.2	411.0	363.2	47.78	8.600			
10,570.9	10,475.6	10,602.6	10,476.7	38.0	12.2	-90.01	-97.9	-618.1	410.9	363.0	47.85	8.586			
10,575.0	10,478.8	10,606.4	10,478.6	38.0	12.2	-89.82	-101.2	-618.1	410.9	363.0	47.87	8.584			
10,600.0	10,498.0	10,629.3	10,489.4	38.1	12.2	-88.61	-121.4	-618.0	411.0	363.1	47.95	8.573			
10,625.0	10,516.3	10,651.8	10,499.1	38.2	12.2	-87.41	-141.7	-617.9	411.4	363.4	48.01	8.568			
10,650.0	10,533.7	10,674.0	10,507.7	38.2	12.2	-86.23	-162.1	-617.7	411.9	363.8	48.08	8.568			
10,675.0	10,550.2	10,695.8	10,515.2	38.3	12.3	-85.06	-182.6	-617.6	412.6	364.5	48.13	8.573			
10,700.0	10,565.6	10,717.3	10,521.7	38.3	12.3	-83.91	-203.1	-617.5	413.5	365.4	48.18	8.583			
10,725.0	10,580.0	10,738.5	10,527.2	38.3	12.3	-82.78	-223.5	-617.3	414.6	366.4	48.22	8.597			
10,750.0	10,593.3	10,759.4	10,531.8	38.4	12.4	-81.67	-244.0	-617.2	415.8	367.6	48.26	8.616			
10,775.0	10,605.5	10,780.1	10,535.4	38.4	12.4	-80.59	-264.3	-617.1	417.2	368.9	48.29	8.638			
10,800.0	10,616.5	10,800.0	10,538.0	38.5	12.4	-79.56	-284.0	-617.0	418.6	370.3	48.31	8.664			
10,825.0	10,626.3	10,820.8	10,539.9	38.5	12.4	-78.52	-304.8	-616.8	420.1	371.8	48.34	8.691			
10,850.0	10,634.9	10,840.8	10,540.8	38.5	12.5	-77.52	-324.7	-616.7	421.8	373.4	48.36	8.722			
10,875.0	10,642.3	10,862.2	10,541.0	38.6	12.5	-76.52	-346.1	-616.6	423.5	375.1	48.39	8.751			
10,900.0	10,648.4	10,866.5	10,541.0	38.6	12.5	-75.56	-370.4	-616.4	425.0	376.5	48.45	8.772			
10,925.0	10,653.2	10,911.0	10,541.0	38.6	12.6	-74.80	-394.9	-616.3	426.2	377.7	48.51	8.786			
10,950.0	10,656.8	10,935.7	10,541.0	38.7	12.6	-74.23	-419.7	-616.1	427.2	378.6	48.60	8.791			
10,975.0	10,659.0	10,960.6	10,541.0	38.7	12.6	-73.88	-444.6	-615.9	427.8	379.1	48.68	8.788			
11,000.0	10,659.9	10,985.6	10,541.0	38.7	12.7	-73.73	-469.5	-615.8	428.1	379.3	48.78	8.776			
11,005.3	10,660.0	10,990.9	10,541.0	38.7	12.7	-73.72	-474.9	-615.8	428.1	379.3	48.80	8.772			
11,100.0	10,660.0	11,085.6	10,541.0	38.9	12.9	-73.72	-569.5	-615.2	428.1	378.9	49.24	8.694			
11,200.0	10,660.0	11,185.6	10,541.0	39.0	13.2	-73.72	-669.5	-614.5	428.1	378.3	49.76	8.603			
11,300.0	10,660.0	11,285.6	10,541.0	39.2	13.5	-73.72	-769.5	-613.9	428.1	377.8	50.34	8.504			
11,400.0	10,660.0	11,385.6	10,541.0	39.4	13.9	-73.72	-869.5	-613.3	428.1	377.1	50.98	8.398			
11,500.0	10,660.0	11,485.6	10,541.0	39.6	14.4	-73.72	-969.5	-612.6	428.1	376.5	51.67	8.286			
11,600.0	10,660.0	11,585.6	10,541.0	39.8	14.9	-73.72	-1,069.5	-612.0	428.1	375.7	52.40	8.170			
11,700.0	10,660.0	11,685.6	10,541.0	40.0	15.5	-73.72	-1,169.5	-611.4	428.2	375.0	53.18	8.051			
11,800.0	10,660.0	11,785.6	10,541.0	40.2	16.1	-73.72	-1,269.5	-610.7	428.2	374.2	54.00	7.929			
11,900.0	10,660.0	11,885.6	10,541.0	40.5	16.8	-73.72	-1,369.5	-610.1	428.2	373.3	54.86	7.805			
12,000.0	10,660.0	11,985.6	10,541.0	40.8	17.4	-73.72	-1,469.5	-609.5	428.2	372.4	55.76	7.680			
12,100.0	10,660.0	12,085.6	10,541.0	41.0	18.1	-73.73	-1,569.5	-608.8	428.2	371.5	56.68	7.554			
12,200.0	10,660.0	12,185.6	10,541.0	41.3	18.8	-73.73	-1,669.5	-608.2	428.2	370.6	57.64	7.429			
12,300.0	10,660.0	12,285.6	10,541.0	41.6	19.5	-73.73	-1,769.5	-607.6	428.2	369.6	58.63	7.304			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,400.0	10,660.0	12,385.6	10,541.0	42.0	20.3	-73.73	-1,869.5	-606.9	428.2	368.6	59.65	7.179	
12,500.0	10,660.0	12,485.6	10,541.0	42.3	21.0	-73.73	-1,969.5	-606.3	428.2	367.6	60.69	7.056	
12,600.0	10,660.0	12,585.6	10,541.0	42.7	21.8	-73.73	-2,069.5	-605.7	428.3	366.5	61.76	6.934	
12,700.0	10,660.0	12,685.6	10,541.0	43.0	22.5	-73.73	-2,169.5	-605.0	428.3	365.4	62.85	6.814	
12,800.0	10,660.0	12,785.6	10,541.0	43.4	23.3	-73.73	-2,269.5	-604.4	428.3	364.3	63.96	6.695	
12,900.0	10,660.0	12,885.6	10,541.0	43.8	24.1	-73.73	-2,369.5	-603.8	428.3	363.2	65.10	6.579	
13,000.0	10,660.0	12,985.6	10,541.0	44.2	24.9	-73.73	-2,469.5	-603.1	428.3	362.0	66.26	6.464	
13,100.0	10,660.0	13,085.6	10,541.0	44.7	25.6	-73.73	-2,569.5	-602.5	428.3	360.9	67.43	6.352	
13,200.0	10,660.0	13,185.6	10,541.0	45.1	26.4	-73.73	-2,669.5	-601.9	428.3	359.7	68.63	6.241	
13,300.0	10,660.0	13,285.6	10,541.0	45.5	27.2	-73.73	-2,769.5	-601.2	428.3	358.5	69.84	6.133	
13,400.0	10,660.0	13,385.6	10,541.0	46.0	28.0	-73.73	-2,869.5	-600.6	428.3	357.3	71.07	6.027	
13,500.0	10,660.0	13,485.6	10,541.0	46.5	28.8	-73.73	-2,969.5	-600.0	428.3	356.0	72.32	5.923	
13,600.0	10,660.0	13,585.6	10,541.0	46.9	29.7	-73.73	-3,069.5	-599.3	428.4	354.8	73.58	5.822	
13,700.0	10,660.0	13,685.6	10,541.0	47.4	30.5	-73.73	-3,169.5	-598.7	428.4	353.5	74.85	5.723	
13,800.0	10,660.0	13,785.6	10,541.0	47.9	31.3	-73.73	-3,269.5	-598.1	428.4	352.2	76.14	5.626	
13,900.0	10,660.0	13,885.6	10,541.0	48.4	32.1	-73.73	-3,369.5	-597.4	428.4	350.9	77.45	5.531	
14,000.0	10,660.0	13,985.6	10,541.0	49.0	32.9	-73.73	-3,469.5	-596.8	428.4	349.6	78.77	5.439	
14,100.0	10,660.0	14,085.6	10,541.0	49.5	33.7	-73.73	-3,569.5	-596.2	428.4	348.3	80.10	5.349	
14,200.0	10,660.0	14,185.6	10,541.0	50.0	34.6	-73.73	-3,669.5	-595.5	428.4	347.0	81.44	5.261	
14,300.0	10,660.0	14,285.6	10,541.0	50.6	35.4	-73.73	-3,769.5	-594.9	428.4	345.6	82.79	5.175	
14,400.0	10,660.0	14,385.6	10,541.0	51.1	36.2	-73.73	-3,869.5	-594.3	428.4	344.3	84.16	5.091	
14,500.0	10,660.0	14,485.6	10,541.0	51.7	37.0	-73.74	-3,969.5	-593.6	428.5	342.9	85.53	5.009	
14,600.0	10,660.0	14,585.6	10,541.0	52.3	37.9	-73.74	-4,069.5	-593.0	428.5	341.5	86.92	4.930	
14,700.0	10,660.0	14,685.6	10,541.0	52.9	38.7	-73.74	-4,169.5	-592.4	428.5	340.2	88.31	4.852	
14,800.0	10,660.0	14,785.6	10,541.0	53.4	39.5	-73.74	-4,269.5	-591.7	428.5	338.8	89.72	4.776	
14,900.0	10,660.0	14,885.6	10,541.0	54.0	40.4	-73.74	-4,369.5	-591.1	428.5	337.4	91.13	4.702	
15,000.0	10,660.0	14,985.6	10,541.0	54.6	41.2	-73.74	-4,469.5	-590.5	428.5	336.0	92.56	4.630	
15,100.0	10,660.0	15,085.6	10,541.0	55.2	42.0	-73.74	-4,569.5	-589.8	428.5	334.5	93.99	4.559	
15,200.0	10,660.0	15,185.6	10,541.0	55.9	42.9	-73.74	-4,669.5	-589.2	428.5	333.1	95.43	4.491	
15,300.0	10,660.0	15,285.6	10,541.0	56.5	43.7	-73.74	-4,769.4	-588.6	428.5	331.7	96.88	4.424	
15,400.0	10,660.0	15,385.6	10,541.0	57.1	44.6	-73.74	-4,869.4	-587.9	428.6	330.2	98.33	4.358	
15,500.0	10,660.0	15,485.6	10,541.0	57.7	45.4	-73.74	-4,969.4	-587.3	428.6	328.8	99.79	4.294	
15,600.0	10,660.0	15,585.6	10,541.0	58.4	46.2	-73.74	-5,069.4	-586.7	428.6	327.3	101.26	4.232	
15,700.0	10,660.0	15,685.6	10,541.0	59.0	47.1	-73.74	-5,169.4	-586.0	428.6	325.8	102.74	4.172	
15,800.0	10,660.0	15,785.6	10,541.0	59.7	47.9	-73.74	-5,269.4	-585.4	428.6	324.4	104.22	4.112	
15,900.0	10,660.0	15,885.6	10,541.0	60.3	48.8	-73.74	-5,369.4	-584.8	428.6	322.9	105.71	4.055	
16,000.0	10,660.0	15,985.6	10,541.0	61.0	49.6	-73.74	-5,469.4	-584.1	428.6	321.4	107.20	3.998	
16,100.0	10,660.0	16,085.6	10,541.0	61.7	50.4	-73.74	-5,569.4	-583.5	428.6	319.9	108.71	3.943	
16,200.0	10,660.0	16,185.6	10,541.0	62.3	51.3	-73.74	-5,669.4	-582.9	428.6	318.4	110.21	3.889	
16,300.0	10,660.0	16,285.6	10,541.0	63.0	52.1	-73.74	-5,769.4	-582.2	428.6	316.9	111.72	3.837	
16,400.0	10,660.0	16,385.6	10,541.0	63.7	53.0	-73.74	-5,869.4	-581.6	428.7	315.4	113.24	3.785	
16,500.0	10,660.0	16,485.6	10,541.0	64.4	53.8	-73.74	-5,969.4	-581.0	428.7	313.9	114.76	3.735	
16,600.0	10,660.0	16,585.6	10,541.0	65.1	54.7	-73.74	-6,069.4	-580.3	428.7	312.4	116.29	3.686	
16,700.0	10,660.0	16,685.6	10,541.0	65.8	55.5	-73.74	-6,169.4	-579.7	428.7	310.9	117.82	3.639	
16,800.0	10,660.0	16,785.6	10,541.0	66.4	56.4	-73.74	-6,269.4	-579.1	428.7	309.3	119.35	3.592	
16,900.0	10,660.0	16,885.6	10,541.0	67.1	57.2	-73.75	-6,369.4	-578.4	428.7	307.8	120.89	3.546	
17,000.0	10,660.0	16,985.6	10,541.0	67.8	58.1	-73.75	-6,469.4	-577.8	428.7	306.3	122.44	3.502	
17,100.0	10,660.0	17,085.6	10,541.0	68.6	58.9	-73.75	-6,569.4	-577.2	428.7	304.7	123.99	3.458	
17,200.0	10,660.0	17,185.6	10,541.0	69.3	59.8	-73.75	-6,669.4	-576.5	428.7	303.2	125.54	3.415	
17,300.0	10,660.0	17,285.6	10,541.0	70.0	60.6	-73.75	-6,769.4	-575.9	428.8	301.7	127.10	3.373	
17,400.0	10,660.0	17,385.6	10,541.0	70.7	61.5	-73.75	-6,869.4	-575.3	428.8	300.1	128.66	3.333	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)						
17,500.0	10,660.0	17,485.6	10,541.0	71.4	62.3	-73.75	-6,969.4	-574.6	428.8	298.6	130.22	3.293		
17,600.0	10,660.0	17,585.6	10,541.0	72.1	63.2	-73.75	-7,069.4	-574.0	428.8	297.0	131.79	3.254		
17,700.0	10,660.0	17,685.6	10,541.0	72.9	64.0	-73.75	-7,169.4	-573.4	428.8	295.4	133.36	3.215		
17,800.0	10,660.0	17,785.6	10,541.0	73.6	64.9	-73.75	-7,269.4	-572.7	428.8	293.9	134.93	3.178		
17,900.0	10,660.0	17,885.6	10,541.0	74.3	65.7	-73.75	-7,369.4	-572.1	428.8	292.3	136.51	3.141		
18,000.0	10,660.0	17,985.6	10,541.0	75.1	66.6	-73.75	-7,469.4	-571.5	428.8	290.7	138.09	3.106		
18,100.0	10,660.0	18,085.6	10,541.0	75.8	67.4	-73.75	-7,569.4	-570.8	428.8	289.2	139.67	3.070		
18,200.0	10,660.0	18,185.6	10,541.0	76.5	68.3	-73.75	-7,669.4	-570.2	428.8	287.6	141.25	3.036		
18,300.0	10,660.0	18,285.6	10,541.0	77.3	69.1	-73.75	-7,769.4	-569.6	428.9	286.0	142.84	3.002		
18,400.0	10,660.0	18,385.6	10,541.0	78.0	70.0	-73.75	-7,869.4	-568.9	428.9	284.4	144.43	2.969		
18,500.0	10,660.0	18,485.6	10,541.0	78.8	70.8	-73.75	-7,969.4	-568.3	428.9	282.9	146.03	2.937		
18,600.0	10,660.0	18,585.6	10,541.0	79.5	71.7	-73.75	-8,069.4	-567.7	428.9	281.3	147.62	2.905		
18,700.0	10,660.0	18,685.6	10,541.0	80.3	72.5	-73.75	-8,169.4	-567.0	428.9	279.7	149.22	2.874		
18,800.0	10,660.0	18,785.6	10,541.0	81.0	73.4	-73.75	-8,269.4	-566.4	428.9	278.1	150.82	2.844		
18,900.0	10,660.0	18,885.6	10,541.0	81.8	74.2	-73.75	-8,369.4	-565.8	428.9	276.5	152.42	2.814		
19,000.0	10,660.0	18,985.6	10,541.0	82.5	75.1	-73.75	-8,469.4	-565.1	428.9	274.9	154.03	2.785		
19,100.0	10,660.0	19,085.6	10,541.0	83.3	76.0	-73.75	-8,569.4	-564.5	428.9	273.3	155.64	2.756		
19,200.0	10,660.0	19,185.6	10,541.0	84.1	76.8	-73.75	-8,669.4	-563.9	429.0	271.7	157.25	2.728		
19,300.0	10,660.0	19,285.6	10,541.0	84.8	77.7	-73.76	-8,769.4	-563.2	429.0	270.1	158.86	2.700		
19,400.0	10,660.0	19,385.6	10,541.0	85.6	78.5	-73.76	-8,869.4	-562.6	429.0	268.5	160.47	2.673		
19,500.0	10,660.0	19,485.6	10,541.0	86.4	79.4	-73.76	-8,969.4	-562.0	429.0	266.9	162.09	2.647		
19,600.0	10,660.0	19,585.6	10,541.0	87.1	80.2	-73.76	-9,069.4	-561.3	429.0	265.3	163.70	2.621		
19,700.0	10,660.0	19,685.6	10,541.0	87.9	81.1	-73.76	-9,169.4	-560.7	429.0	263.7	165.32	2.595		
19,800.0	10,660.0	19,785.6	10,541.0	88.7	81.9	-73.76	-9,269.4	-560.1	429.0	262.1	166.94	2.570		
19,900.0	10,660.0	19,885.6	10,541.0	89.5	82.8	-73.76	-9,369.4	-559.4	429.0	260.5	168.57	2.545		
20,000.0	10,660.0	19,985.6	10,541.0	90.2	83.6	-73.76	-9,469.4	-558.8	429.0	258.8	170.19	2.521		
20,100.0	10,660.0	20,085.6	10,541.0	91.0	84.5	-73.76	-9,569.4	-558.2	429.0	257.2	171.82	2.497		
20,200.0	10,660.0	20,185.6	10,541.0	91.8	85.4	-73.76	-9,669.3	-557.5	429.1	255.6	173.44	2.474		
20,300.0	10,660.0	20,285.6	10,541.0	92.6	86.2	-73.76	-9,769.3	-556.9	429.1	254.0	175.07	2.451		
20,400.0	10,660.0	20,385.6	10,541.0	93.3	87.1	-73.76	-9,869.3	-556.3	429.1	252.4	176.70	2.428		
20,500.0	10,660.0	20,485.6	10,541.0	94.1	87.9	-73.76	-9,969.3	-555.6	429.1	250.8	178.34	2.406		
20,600.0	10,660.0	20,585.6	10,541.0	94.9	88.8	-73.76	-10,069.3	-555.0	429.1	249.1	179.97	2.384		
20,700.0	10,660.0	20,685.6	10,541.0	95.7	89.6	-73.76	-10,169.3	-554.4	429.1	247.5	181.60	2.363		
20,744.6	10,660.0	20,730.2	10,541.0	96.1	89.9	-73.76	-10,214.0	-554.1	429.1	246.9	182.26	2.354		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - PATRON 23 FED #4H - LATERAL 01 - AWP-LAT 01													Offset Site Error:	3.0 usft
Survey Program: 100- VES GyroFlex, 10237-MWD													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)			
11,400.0	10,660.0	11,346.0	10,565.6	39.4	19.1	85.20	-929.5	-2,016.0	997.0	938.7	58.29	17.104		
11,500.0	10,660.0	11,412.1	10,563.0	39.6	20.1	85.04	-995.6	-2,013.8	994.2	934.8	59.47	16.719		
11,600.0	10,660.0	11,511.8	10,558.7	39.8	21.5	84.78	-1,095.1	-2,011.4	992.8	931.7	61.11	16.246		
11,700.0	10,660.0	11,599.0	10,556.3	40.0	22.7	84.64	-1,182.2	-2,009.5	991.5	928.9	62.57	15.846		
11,800.0	10,660.0	11,716.6	10,556.9	40.2	24.5	84.67	-1,299.8	-2,008.0	990.9	926.4	64.56	15.349		
11,900.0	10,660.0	11,822.0	10,560.7	40.5	26.1	84.88	-1,405.2	-2,005.0	988.4	922.0	66.37	14.891		
11,977.3	10,660.0	11,872.5	10,562.6	40.7	26.8	84.98	-1,455.6	-2,004.1	987.3	920.0	67.35	14.659 CC		
12,000.0	10,660.0	11,887.3	10,563.0	40.8	27.1	85.00	-1,470.4	-2,004.1	987.4	919.8	67.64	14.598 ES		
12,100.0	10,660.0	11,966.2	10,564.4	41.0	28.3	85.09	-1,549.2	-2,005.6	989.6	920.5	69.12	14.316		
12,200.0	10,660.0	12,066.7	10,566.3	41.3	29.8	85.22	-1,649.7	-2,008.3	992.7	921.8	70.95	13.992		
12,300.0	10,660.0	12,160.0	10,568.2	41.6	31.2	85.34	-1,743.0	-2,010.5	995.6	923.0	72.66	13.702 SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3177.0usft (P 84)

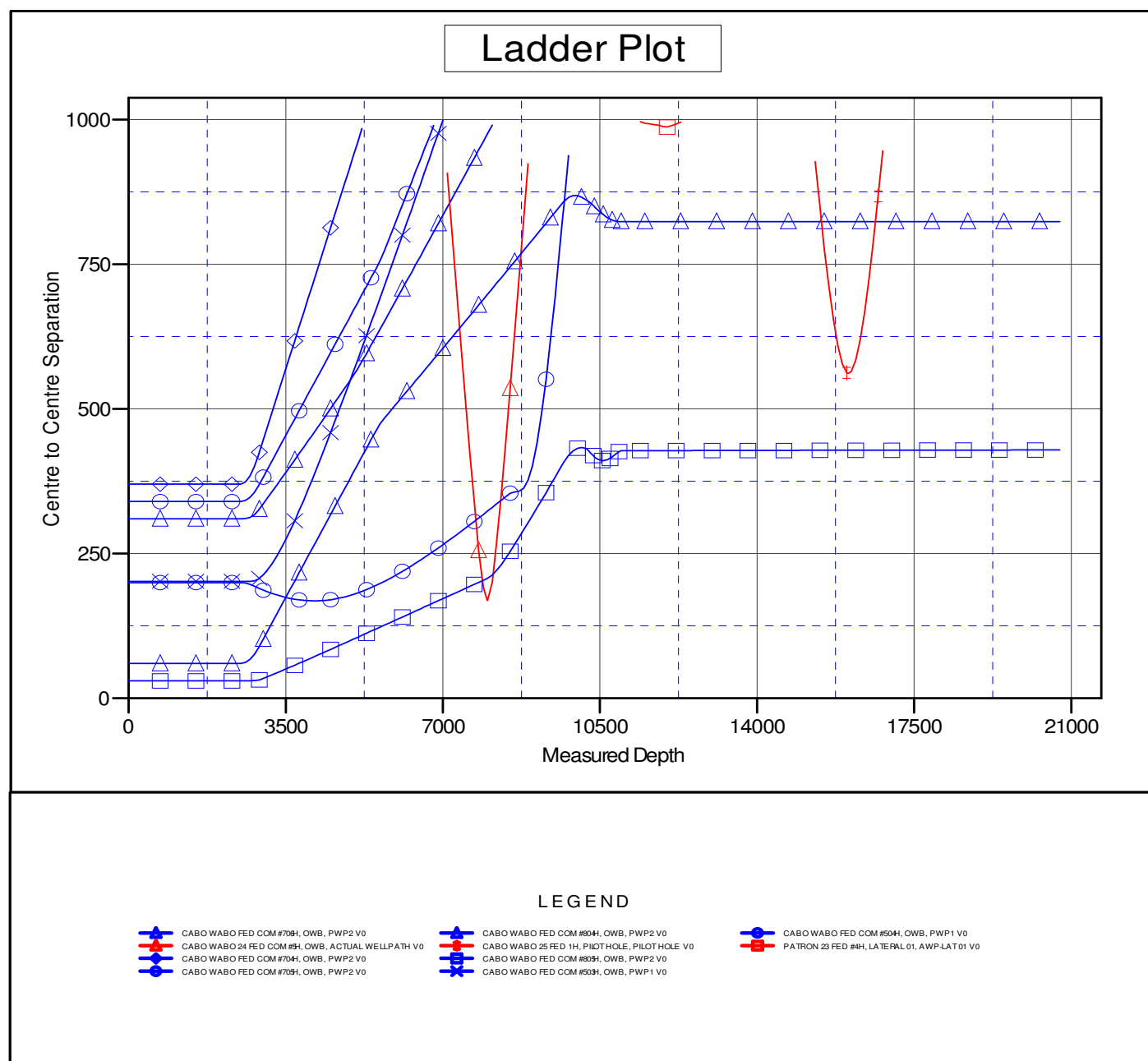
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #806H

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #806H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3177.0usft (P 84)

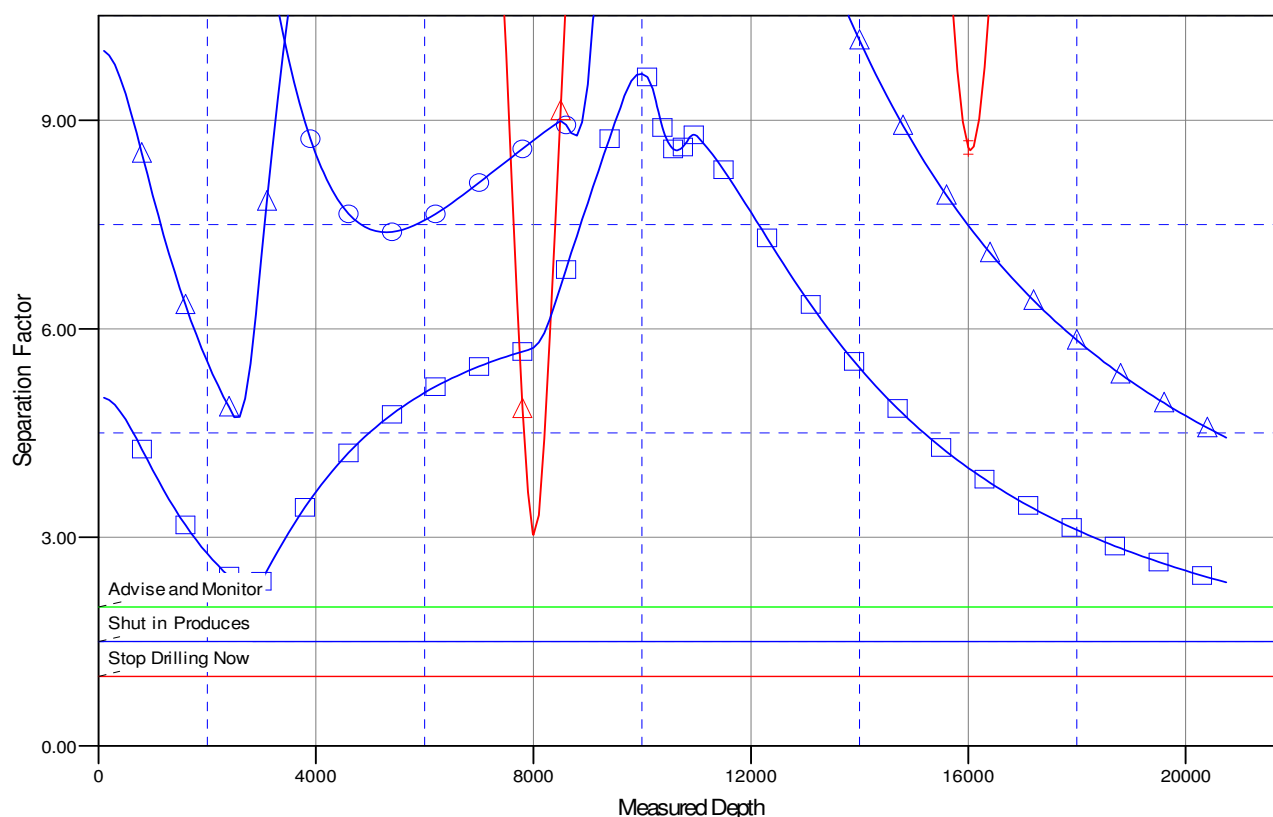
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #806H

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

Grid Convergence at Surface is: 0.21°

Separation Factor Plot**LEGEND**

CABO WABO FED COM #704H, OWB, PWP2 V0	CABO WABO FED COM #804H, OWB, PWP2 V0	CABO WABO FED COM #504H, OWB, PWP1 V0
CABO WABO 24 FED COM #84H, OWB, ACTUAL WELLPATH V0	CABO WABO 25 FED 1H, PILOT HOLE, PILOT HOLE V0	PATRON 23 FED #4H, LATERAL 01, AWP-LAT 01 V0
CABO WABO FED COM #704H, OWB, PWP2 V0	CABO WABO FED COM #804H, OWB, PWP2 V0	
CABO WABO FED COM #704H, OWB, PWP2 V0	CABO WABO FED COM #504H, OWB, PWP1 V0	

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #806H

OWB

Plan: PWP2

Standard Survey Report

12 October, 2021

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

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

Well	CABO WABO FED COM #806H				
Well Position	+N/-S	0.0 usft	Northing:	408,349.15 usft	Latitude: 32° 7' 19.425 N
	+E/-W	0.0 usft	Easting:	621,249.81 usft	Longitude: 103° 56' 30.047 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,152.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	10/12/2021	6.67	59.77	47,570.15353897

Design	PWP2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:		0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	185.40	

Survey Tool Program	Date	10/12/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,744.6	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	270.00	2,600.0	0.0	-1.7	0.2	2.00	2.00	0.00
2,700.0	4.00	270.00	2,699.8	0.0	-7.0	0.7	2.00	2.00	0.00
2,800.0	6.00	270.00	2,799.5	0.0	-15.7	1.5	2.00	2.00	0.00
2,900.0	8.00	270.00	2,898.7	0.0	-27.9	2.6	2.00	2.00	0.00
2,912.4	8.25	270.00	2,911.0	0.0	-29.6	2.8	2.00	2.00	0.00
Start 6763.3 hold at 2912.4 MD									
3,000.0	8.25	270.00	2,997.7	0.0	-42.2	4.0	0.00	0.00	0.00
3,100.0	8.25	270.00	3,096.6	0.0	-56.5	5.3	0.00	0.00	0.00
3,200.0	8.25	270.00	3,195.6	0.0	-70.9	6.7	0.00	0.00	0.00
3,300.0	8.25	270.00	3,294.6	0.0	-85.2	8.0	0.00	0.00	0.00
3,400.0	8.25	270.00	3,393.5	0.0	-99.6	9.4	0.00	0.00	0.00
3,500.0	8.25	270.00	3,492.5	0.0	-113.9	10.7	0.00	0.00	0.00
3,600.0	8.25	270.00	3,591.5	0.0	-128.3	12.1	0.00	0.00	0.00
3,700.0	8.25	270.00	3,690.4	0.0	-142.6	13.4	0.00	0.00	0.00
3,800.0	8.25	270.00	3,789.4	0.0	-157.0	14.8	0.00	0.00	0.00
3,900.0	8.25	270.00	3,888.4	0.0	-171.3	16.1	0.00	0.00	0.00
4,000.0	8.25	270.00	3,987.3	0.0	-185.7	17.5	0.00	0.00	0.00
4,100.0	8.25	270.00	4,086.3	0.0	-200.0	18.8	0.00	0.00	0.00
4,200.0	8.25	270.00	4,185.3	0.0	-214.4	20.2	0.00	0.00	0.00
4,300.0	8.25	270.00	4,284.2	0.0	-228.7	21.5	0.00	0.00	0.00
4,400.0	8.25	270.00	4,383.2	0.0	-243.1	22.9	0.00	0.00	0.00
4,500.0	8.25	270.00	4,482.2	0.0	-257.4	24.2	0.00	0.00	0.00
4,600.0	8.25	270.00	4,581.1	0.0	-271.8	25.6	0.00	0.00	0.00
4,700.0	8.25	270.00	4,680.1	0.0	-286.1	26.9	0.00	0.00	0.00
4,800.0	8.25	270.00	4,779.0	0.0	-300.5	28.3	0.00	0.00	0.00
4,900.0	8.25	270.00	4,878.0	0.0	-314.8	29.6	0.00	0.00	0.00
5,000.0	8.25	270.00	4,977.0	0.0	-329.2	31.0	0.00	0.00	0.00
5,100.0	8.25	270.00	5,075.9	0.0	-343.5	32.3	0.00	0.00	0.00
5,200.0	8.25	270.00	5,174.9	0.0	-357.8	33.7	0.00	0.00	0.00
5,300.0	8.25	270.00	5,273.9	0.0	-372.2	35.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.0	8.25	270.00	5,372.8	0.0	-386.5	36.4	0.00	0.00	0.00	
5,500.0	8.25	270.00	5,471.8	0.0	-400.9	37.7	0.00	0.00	0.00	
5,600.0	8.25	270.00	5,570.8	0.0	-415.2	39.1	0.00	0.00	0.00	
5,700.0	8.25	270.00	5,669.7	0.0	-429.6	40.4	0.00	0.00	0.00	
5,800.0	8.25	270.00	5,768.7	0.0	-443.9	41.8	0.00	0.00	0.00	
5,900.0	8.25	270.00	5,867.7	0.0	-458.3	43.1	0.00	0.00	0.00	
6,000.0	8.25	270.00	5,966.6	0.0	-472.6	44.5	0.00	0.00	0.00	
6,100.0	8.25	270.00	6,065.6	0.0	-487.0	45.8	0.00	0.00	0.00	
6,200.0	8.25	270.00	6,164.6	0.0	-501.3	47.2	0.00	0.00	0.00	
6,300.0	8.25	270.00	6,263.5	0.0	-515.7	48.5	0.00	0.00	0.00	
6,400.0	8.25	270.00	6,362.5	0.0	-530.0	49.9	0.00	0.00	0.00	
6,500.0	8.25	270.00	6,461.5	0.0	-544.4	51.2	0.00	0.00	0.00	
6,600.0	8.25	270.00	6,560.4	0.0	-558.7	52.6	0.00	0.00	0.00	
6,700.0	8.25	270.00	6,659.4	0.0	-573.1	53.9	0.00	0.00	0.00	
6,800.0	8.25	270.00	6,758.4	0.0	-587.4	55.3	0.00	0.00	0.00	
6,900.0	8.25	270.00	6,857.3	0.0	-601.8	56.6	0.00	0.00	0.00	
7,000.0	8.25	270.00	6,956.3	0.0	-616.1	58.0	0.00	0.00	0.00	
7,100.0	8.25	270.00	7,055.3	0.0	-630.4	59.4	0.00	0.00	0.00	
7,200.0	8.25	270.00	7,154.2	0.0	-644.8	60.7	0.00	0.00	0.00	
7,300.0	8.25	270.00	7,253.2	0.0	-659.1	62.1	0.00	0.00	0.00	
7,400.0	8.25	270.00	7,352.1	0.0	-673.5	63.4	0.00	0.00	0.00	
7,500.0	8.25	270.00	7,451.1	0.0	-687.8	64.8	0.00	0.00	0.00	
7,600.0	8.25	270.00	7,550.1	0.0	-702.2	66.1	0.00	0.00	0.00	
7,700.0	8.25	270.00	7,649.0	0.0	-716.5	67.5	0.00	0.00	0.00	
7,800.0	8.25	270.00	7,748.0	0.0	-730.9	68.8	0.00	0.00	0.00	
7,900.0	8.25	270.00	7,847.0	0.0	-745.2	70.2	0.00	0.00	0.00	
8,000.0	8.25	270.00	7,945.9	0.0	-759.6	71.5	0.00	0.00	0.00	
8,100.0	8.25	270.00	8,044.9	0.0	-773.9	72.9	0.00	0.00	0.00	
8,200.0	8.25	270.00	8,143.9	0.0	-788.3	74.2	0.00	0.00	0.00	
8,300.0	8.25	270.00	8,242.8	0.0	-802.6	75.6	0.00	0.00	0.00	
8,400.0	8.25	270.00	8,341.8	0.0	-817.0	76.9	0.00	0.00	0.00	
8,500.0	8.25	270.00	8,440.8	0.0	-831.3	78.3	0.00	0.00	0.00	
8,600.0	8.25	270.00	8,539.7	0.0	-845.7	79.6	0.00	0.00	0.00	
8,700.0	8.25	270.00	8,638.7	0.0	-860.0	81.0	0.00	0.00	0.00	
8,800.0	8.25	270.00	8,737.7	0.0	-874.4	82.3	0.00	0.00	0.00	
8,900.0	8.25	270.00	8,836.6	0.0	-888.7	83.7	0.00	0.00	0.00	
9,000.0	8.25	270.00	8,935.6	0.0	-903.1	85.0	0.00	0.00	0.00	
9,100.0	8.25	270.00	9,034.6	0.0	-917.4	86.4	0.00	0.00	0.00	
9,200.0	8.25	270.00	9,133.5	0.0	-931.7	87.7	0.00	0.00	0.00	
9,300.0	8.25	270.00	9,232.5	0.0	-946.1	89.1	0.00	0.00	0.00	
9,400.0	8.25	270.00	9,331.5	0.0	-960.4	90.4	0.00	0.00	0.00	
9,500.0	8.25	270.00	9,430.4	0.0	-974.8	91.8	0.00	0.00	0.00	
9,600.0	8.25	270.00	9,529.4	0.0	-989.1	93.1	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,675.7	8.25	270.00	9,604.3	0.0	-1,000.0	94.1	0.00	0.00	0.00
Start Drop -2.00									
9,700.0	7.76	270.00	9,628.4	0.0	-1,003.4	94.5	2.00	-2.00	0.00
9,800.0	5.76	270.00	9,727.7	0.0	-1,015.2	95.6	2.00	-2.00	0.00
9,900.0	3.76	270.00	9,827.3	0.0	-1,023.5	96.3	2.00	-2.00	0.00
10,000.0	1.76	270.00	9,927.2	0.0	-1,028.3	96.8	2.00	-2.00	0.00
10,088.2	0.00	0.00	10,015.3	0.0	-1,029.6	96.9	2.00	-2.00	102.09
Start 167.2 hold at 10088.2 MD									
10,100.0	0.00	0.00	10,027.2	0.0	-1,029.6	96.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,127.2	0.0	-1,029.6	96.9	0.00	0.00	0.00
10,255.3	0.00	0.00	10,182.5	0.0	-1,029.6	96.9	0.00	0.00	0.00
Start DLS 12.00 TFO 179.64									
10,300.0	5.36	179.64	10,227.1	-2.1	-1,029.6	99.0	12.00	12.00	0.00
10,400.0	17.36	179.64	10,325.0	-21.8	-1,029.5	118.6	12.00	12.00	0.00
10,500.0	29.36	179.64	10,416.6	-61.3	-1,029.3	158.0	12.00	12.00	0.00
10,600.0	41.36	179.64	10,498.0	-119.1	-1,028.9	215.4	12.00	12.00	0.00
10,700.0	53.36	179.64	10,565.6	-192.5	-1,028.4	288.5	12.00	12.00	0.00
10,800.0	65.36	179.64	10,616.5	-278.4	-1,027.9	373.9	12.00	12.00	0.00
10,900.0	77.36	179.64	10,648.4	-373.0	-1,027.3	468.0	12.00	12.00	0.00
11,000.0	89.36	179.64	10,659.9	-472.1	-1,026.7	566.7	12.00	12.00	0.00
11,005.3	90.00	179.64	10,660.0	-477.5	-1,026.7	572.0	12.00	12.00	0.00
Start 9739.3 hold at 11005.3 MD									
11,100.0	90.00	179.64	10,660.0	-572.1	-1,026.1	666.2	0.00	0.00	0.00
11,200.0	90.00	179.64	10,660.0	-672.1	-1,025.5	765.7	0.00	0.00	0.00
11,300.0	90.00	179.64	10,660.0	-772.1	-1,024.8	865.2	0.00	0.00	0.00
11,400.0	90.00	179.64	10,660.0	-872.1	-1,024.2	964.7	0.00	0.00	0.00
11,500.0	90.00	179.64	10,660.0	-972.1	-1,023.6	1,064.2	0.00	0.00	0.00
11,600.0	90.00	179.64	10,660.0	-1,072.1	-1,023.0	1,163.7	0.00	0.00	0.00
11,700.0	90.00	179.64	10,660.0	-1,172.1	-1,022.3	1,263.2	0.00	0.00	0.00
11,800.0	90.00	179.64	10,660.0	-1,272.1	-1,021.7	1,362.7	0.00	0.00	0.00
11,900.0	90.00	179.64	10,660.0	-1,372.1	-1,021.1	1,462.2	0.00	0.00	0.00
12,000.0	90.00	179.64	10,660.0	-1,472.1	-1,020.5	1,561.6	0.00	0.00	0.00
12,100.0	90.00	179.64	10,660.0	-1,572.1	-1,019.9	1,661.1	0.00	0.00	0.00
12,200.0	90.00	179.64	10,660.0	-1,672.1	-1,019.2	1,760.6	0.00	0.00	0.00
12,300.0	90.00	179.64	10,660.0	-1,772.1	-1,018.6	1,860.1	0.00	0.00	0.00
12,400.0	90.00	179.64	10,660.0	-1,872.1	-1,018.0	1,959.6	0.00	0.00	0.00
12,500.0	90.00	179.64	10,660.0	-1,972.1	-1,017.4	2,059.1	0.00	0.00	0.00
12,600.0	90.00	179.64	10,660.0	-2,072.1	-1,016.8	2,158.6	0.00	0.00	0.00
12,700.0	90.00	179.64	10,660.0	-2,172.1	-1,016.1	2,258.1	0.00	0.00	0.00
12,800.0	90.00	179.64	10,660.0	-2,272.1	-1,015.5	2,357.6	0.00	0.00	0.00
12,900.0	90.00	179.64	10,660.0	-2,372.1	-1,014.9	2,457.1	0.00	0.00	0.00
13,000.0	90.00	179.64	10,660.0	-2,472.1	-1,014.3	2,556.6	0.00	0.00	0.00
13,100.0	90.00	179.64	10,660.0	-2,572.1	-1,013.6	2,656.1	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.64	10,660.0	-2,672.1	-1,013.0	2,755.6	0.00	0.00	0.00
13,300.0	90.00	179.64	10,660.0	-2,772.1	-1,012.4	2,855.1	0.00	0.00	0.00
13,400.0	90.00	179.64	10,660.0	-2,872.1	-1,011.8	2,954.6	0.00	0.00	0.00
13,500.0	90.00	179.64	10,660.0	-2,972.1	-1,011.2	3,054.1	0.00	0.00	0.00
13,600.0	90.00	179.64	10,660.0	-3,072.1	-1,010.5	3,153.6	0.00	0.00	0.00
13,700.0	90.00	179.64	10,660.0	-3,172.1	-1,009.9	3,253.1	0.00	0.00	0.00
13,800.0	90.00	179.64	10,660.0	-3,272.1	-1,009.3	3,352.6	0.00	0.00	0.00
13,900.0	90.00	179.64	10,660.0	-3,372.1	-1,008.7	3,452.1	0.00	0.00	0.00
14,000.0	90.00	179.64	10,660.0	-3,472.1	-1,008.0	3,551.6	0.00	0.00	0.00
14,100.0	90.00	179.64	10,660.0	-3,572.1	-1,007.4	3,651.1	0.00	0.00	0.00
14,200.0	90.00	179.64	10,660.0	-3,672.1	-1,006.8	3,750.5	0.00	0.00	0.00
14,300.0	90.00	179.64	10,660.0	-3,772.1	-1,006.2	3,850.0	0.00	0.00	0.00
14,400.0	90.00	179.64	10,660.0	-3,872.1	-1,005.6	3,949.5	0.00	0.00	0.00
14,500.0	90.00	179.64	10,660.0	-3,972.1	-1,004.9	4,049.0	0.00	0.00	0.00
14,600.0	90.00	179.64	10,660.0	-4,072.1	-1,004.3	4,148.5	0.00	0.00	0.00
14,700.0	90.00	179.64	10,660.0	-4,172.1	-1,003.7	4,248.0	0.00	0.00	0.00
14,800.0	90.00	179.64	10,660.0	-4,272.1	-1,003.1	4,347.5	0.00	0.00	0.00
14,900.0	90.00	179.64	10,660.0	-4,372.1	-1,002.4	4,447.0	0.00	0.00	0.00
15,000.0	90.00	179.64	10,660.0	-4,472.1	-1,001.8	4,546.5	0.00	0.00	0.00
15,100.0	90.00	179.64	10,660.0	-4,572.1	-1,001.2	4,646.0	0.00	0.00	0.00
15,200.0	90.00	179.64	10,660.0	-4,672.1	-1,000.6	4,745.5	0.00	0.00	0.00
15,300.0	90.00	179.64	10,660.0	-4,772.1	-1,000.0	4,845.0	0.00	0.00	0.00
15,400.0	90.00	179.64	10,660.0	-4,872.1	-999.3	4,944.5	0.00	0.00	0.00
15,500.0	90.00	179.64	10,660.0	-4,972.0	-998.7	5,044.0	0.00	0.00	0.00
15,600.0	90.00	179.64	10,660.0	-5,072.0	-998.1	5,143.5	0.00	0.00	0.00
15,700.0	90.00	179.64	10,660.0	-5,172.0	-997.5	5,243.0	0.00	0.00	0.00
15,800.0	90.00	179.64	10,660.0	-5,272.0	-996.8	5,342.5	0.00	0.00	0.00
15,900.0	90.00	179.64	10,660.0	-5,372.0	-996.2	5,442.0	0.00	0.00	0.00
16,000.0	90.00	179.64	10,660.0	-5,472.0	-995.6	5,541.5	0.00	0.00	0.00
16,100.0	90.00	179.64	10,660.0	-5,572.0	-995.0	5,641.0	0.00	0.00	0.00
16,200.0	90.00	179.64	10,660.0	-5,672.0	-994.4	5,740.5	0.00	0.00	0.00
16,300.0	90.00	179.64	10,660.0	-5,772.0	-993.7	5,839.9	0.00	0.00	0.00
16,400.0	90.00	179.64	10,660.0	-5,872.0	-993.1	5,939.4	0.00	0.00	0.00
16,500.0	90.00	179.64	10,660.0	-5,972.0	-992.5	6,038.9	0.00	0.00	0.00
16,600.0	90.00	179.64	10,660.0	-6,072.0	-991.9	6,138.4	0.00	0.00	0.00
16,700.0	90.00	179.64	10,660.0	-6,172.0	-991.2	6,237.9	0.00	0.00	0.00
16,800.0	90.00	179.64	10,660.0	-6,272.0	-990.6	6,337.4	0.00	0.00	0.00
16,900.0	90.00	179.64	10,660.0	-6,372.0	-990.0	6,436.9	0.00	0.00	0.00
17,000.0	90.00	179.64	10,660.0	-6,472.0	-989.4	6,536.4	0.00	0.00	0.00
17,100.0	90.00	179.64	10,660.0	-6,572.0	-988.8	6,635.9	0.00	0.00	0.00
17,200.0	90.00	179.64	10,660.0	-6,672.0	-988.1	6,735.4	0.00	0.00	0.00
17,300.0	90.00	179.64	10,660.0	-6,772.0	-987.5	6,834.9	0.00	0.00	0.00
17,400.0	90.00	179.64	10,660.0	-6,872.0	-986.9	6,934.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,500.0	90.00	179.64	10,660.0	-6,972.0	-986.3	7,033.9	0.00	0.00	0.00
17,600.0	90.00	179.64	10,660.0	-7,072.0	-985.7	7,133.4	0.00	0.00	0.00
17,700.0	90.00	179.64	10,660.0	-7,172.0	-985.0	7,232.9	0.00	0.00	0.00
17,800.0	90.00	179.64	10,660.0	-7,272.0	-984.4	7,332.4	0.00	0.00	0.00
17,900.0	90.00	179.64	10,660.0	-7,372.0	-983.8	7,431.9	0.00	0.00	0.00
18,000.0	90.00	179.64	10,660.0	-7,472.0	-983.2	7,531.4	0.00	0.00	0.00
18,100.0	90.00	179.64	10,660.0	-7,572.0	-982.5	7,630.9	0.00	0.00	0.00
18,200.0	90.00	179.64	10,660.0	-7,672.0	-981.9	7,730.4	0.00	0.00	0.00
18,300.0	90.00	179.64	10,660.0	-7,772.0	-981.3	7,829.9	0.00	0.00	0.00
18,400.0	90.00	179.64	10,660.0	-7,872.0	-980.7	7,929.4	0.00	0.00	0.00
18,500.0	90.00	179.64	10,660.0	-7,972.0	-980.1	8,028.8	0.00	0.00	0.00
18,600.0	90.00	179.64	10,660.0	-8,072.0	-979.4	8,128.3	0.00	0.00	0.00
18,700.0	90.00	179.64	10,660.0	-8,172.0	-978.8	8,227.8	0.00	0.00	0.00
18,800.0	90.00	179.64	10,660.0	-8,272.0	-978.2	8,327.3	0.00	0.00	0.00
18,900.0	90.00	179.64	10,660.0	-8,372.0	-977.6	8,426.8	0.00	0.00	0.00
19,000.0	90.00	179.64	10,660.0	-8,472.0	-976.9	8,526.3	0.00	0.00	0.00
19,100.0	90.00	179.64	10,660.0	-8,572.0	-976.3	8,625.8	0.00	0.00	0.00
19,200.0	90.00	179.64	10,660.0	-8,672.0	-975.7	8,725.3	0.00	0.00	0.00
19,300.0	90.00	179.64	10,660.0	-8,772.0	-975.1	8,824.8	0.00	0.00	0.00
19,400.0	90.00	179.64	10,660.0	-8,872.0	-974.5	8,924.3	0.00	0.00	0.00
19,500.0	90.00	179.64	10,660.0	-8,972.0	-973.8	9,023.8	0.00	0.00	0.00
19,600.0	90.00	179.64	10,660.0	-9,072.0	-973.2	9,123.3	0.00	0.00	0.00
19,700.0	90.00	179.64	10,660.0	-9,172.0	-972.6	9,222.8	0.00	0.00	0.00
19,800.0	90.00	179.64	10,660.0	-9,272.0	-972.0	9,322.3	0.00	0.00	0.00
19,900.0	90.00	179.64	10,660.0	-9,372.0	-971.3	9,421.8	0.00	0.00	0.00
20,000.0	90.00	179.64	10,660.0	-9,472.0	-970.7	9,521.3	0.00	0.00	0.00
20,100.0	90.00	179.64	10,660.0	-9,572.0	-970.1	9,620.8	0.00	0.00	0.00
20,200.0	90.00	179.64	10,660.0	-9,672.0	-969.5	9,720.3	0.00	0.00	0.00
20,300.0	90.00	179.64	10,660.0	-9,772.0	-968.9	9,819.8	0.00	0.00	0.00
20,400.0	90.00	179.64	10,660.0	-9,872.0	-968.2	9,919.3	0.00	0.00	0.00
20,500.0	90.00	179.64	10,660.0	-9,972.0	-967.6	10,018.8	0.00	0.00	0.00
20,600.0	90.00	179.64	10,660.0	-10,071.9	-967.0	10,118.3	0.00	0.00	0.00
20,700.0	90.00	179.64	10,660.0	-10,171.9	-966.4	10,217.7	0.00	0.00	0.00
20,744.6	90.00	179.64	10,660.0	-10,216.6	-966.1	10,262.2	0.00	0.00	0.00
TD at 20744.6									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3177.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3177.0usft (P 84)
Well:	CABO WABO FED COM #806H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (CABO WABO - plan hits target center - Rectangle (sides W100.0 H10,088.0 D20.0)	0.00	359.64	10,660.0	-10,216.6	-966.1	398,132.57	620,283.72	32° 5' 38.353 N	103° 56' 41.709 W
LTP (CABO WABO FE - plan misses target center by 0.5usft at 20614.6usft MD (10660.0 TVD, -10086.6 N, -966.9 E) - Point	0.00	0.01	10,660.0	-10,086.6	-967.4	398,262.56	620,282.45	32° 5' 39.639 N	103° 56' 41.719 W
FTP (CABO WABO FI - plan misses target center by 113.7usft at 10700.0usft MD (10565.6 TVD, -192.5 N, -1028.4 E) - Circle (radius 50.0)	0.00	0.01	10,660.0	-129.2	-1,029.6	408,219.97	620,220.17	32° 7' 18.183 N	103° 56' 42.026 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2912	2911	0	-30	Start 6763.3 hold at 2912.4 MD
9676	9604	0	-1000	Start Drop -2.00
10,088	10,015	0	-1030	Start 167.2 hold at 10088.2 MD
10,255	10,183	0	-1030	Start DLS 12.00 TFO 179.64
11,005	10,660	-477	-1027	Start 9739.3 hold at 11005.3 MD
20,745	10,660	-10,217	-966	TD at 20744.6

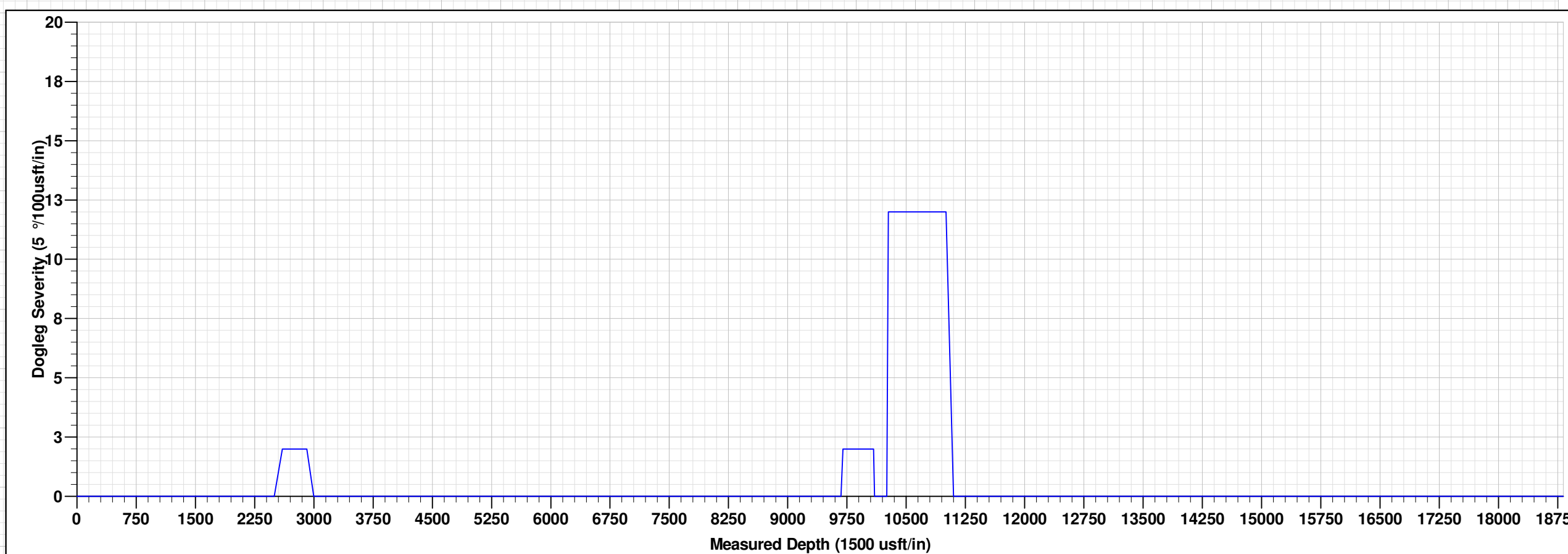
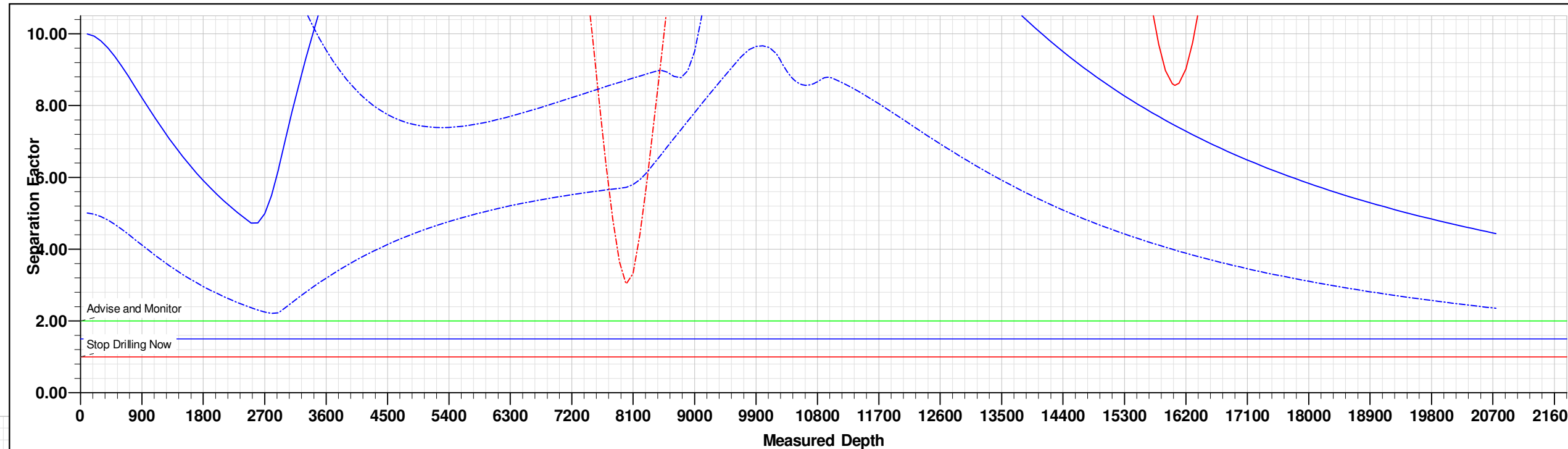
Checked By: _____ Approved By: _____ Date: _____



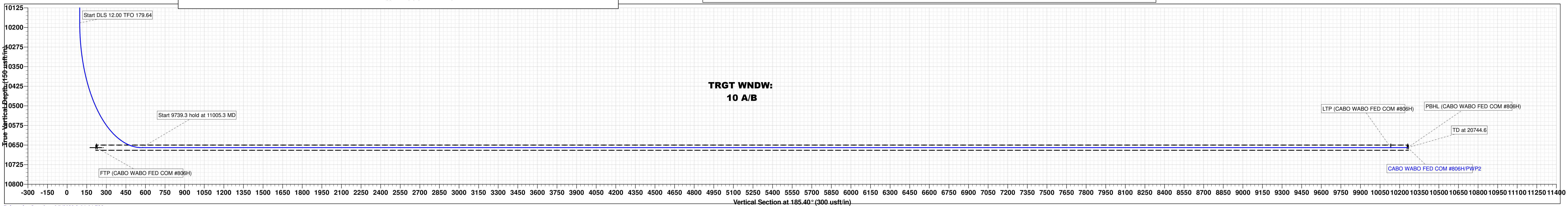
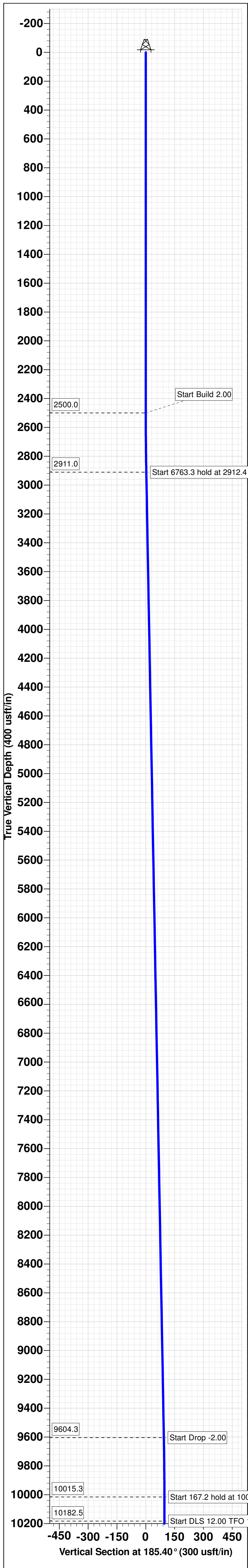
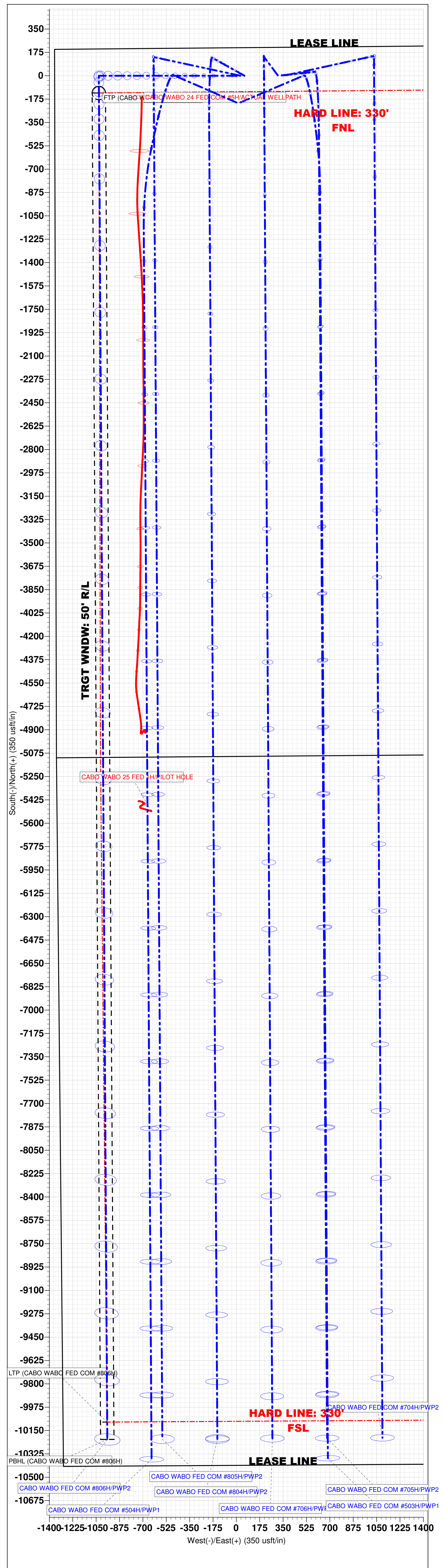
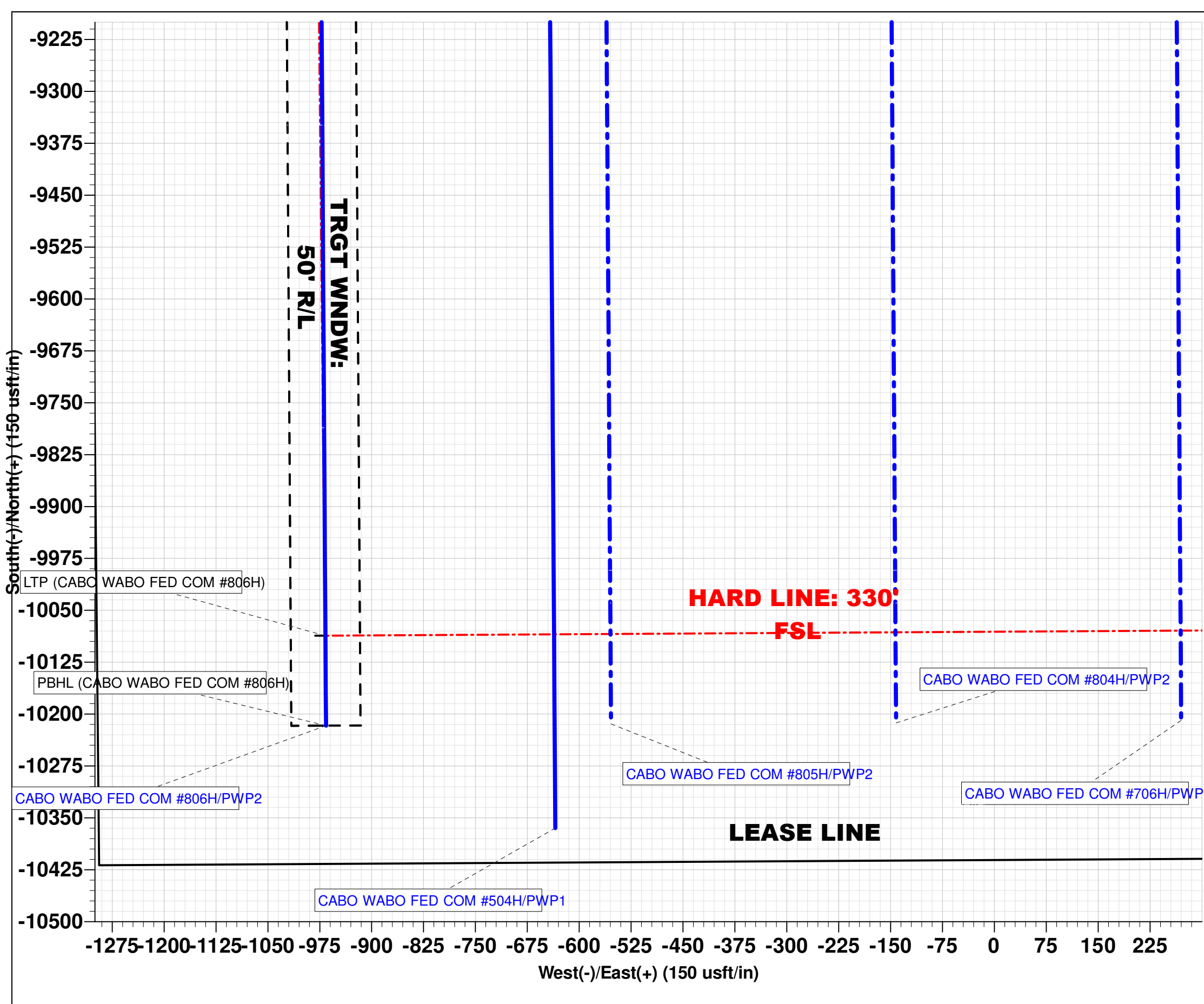
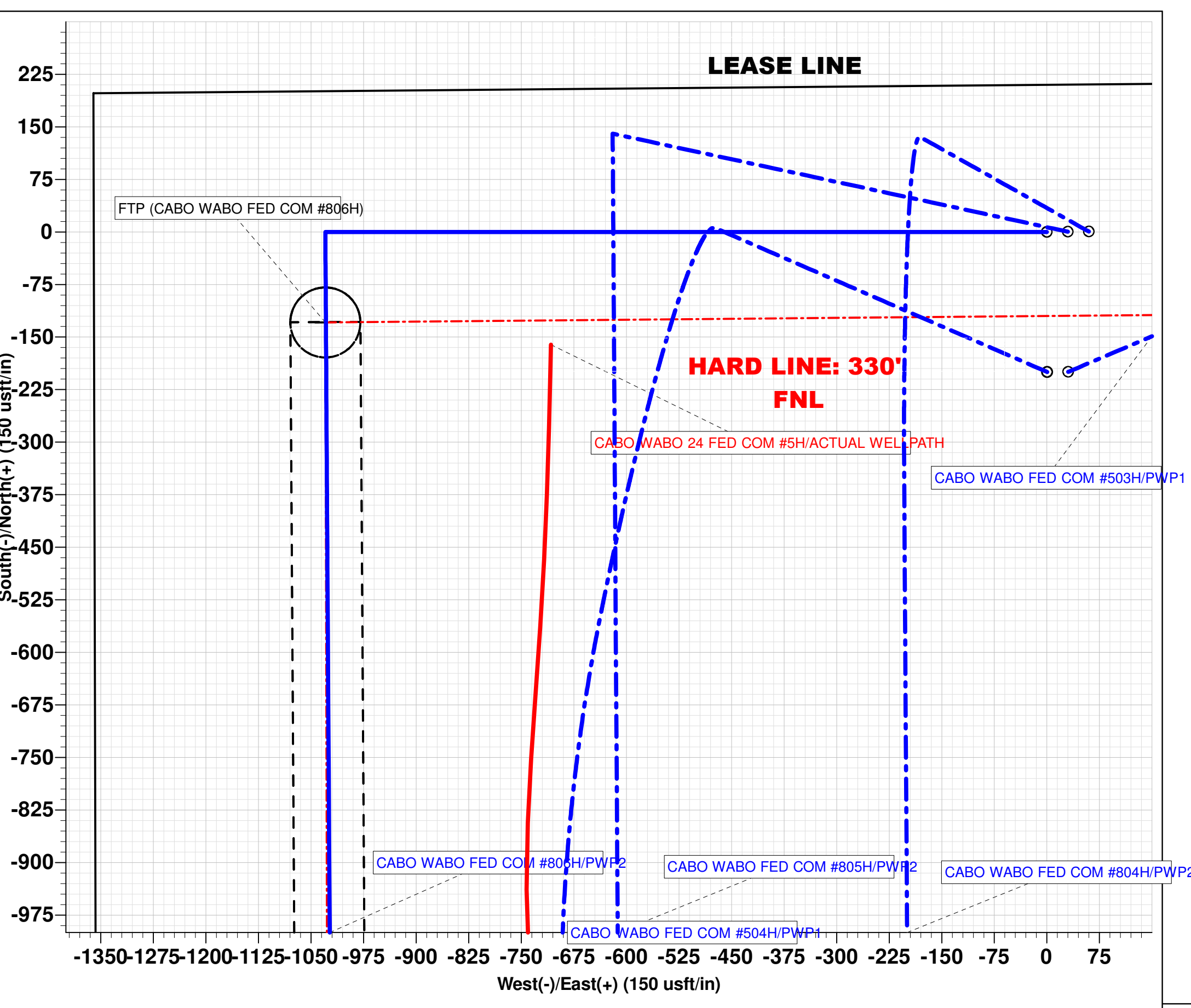
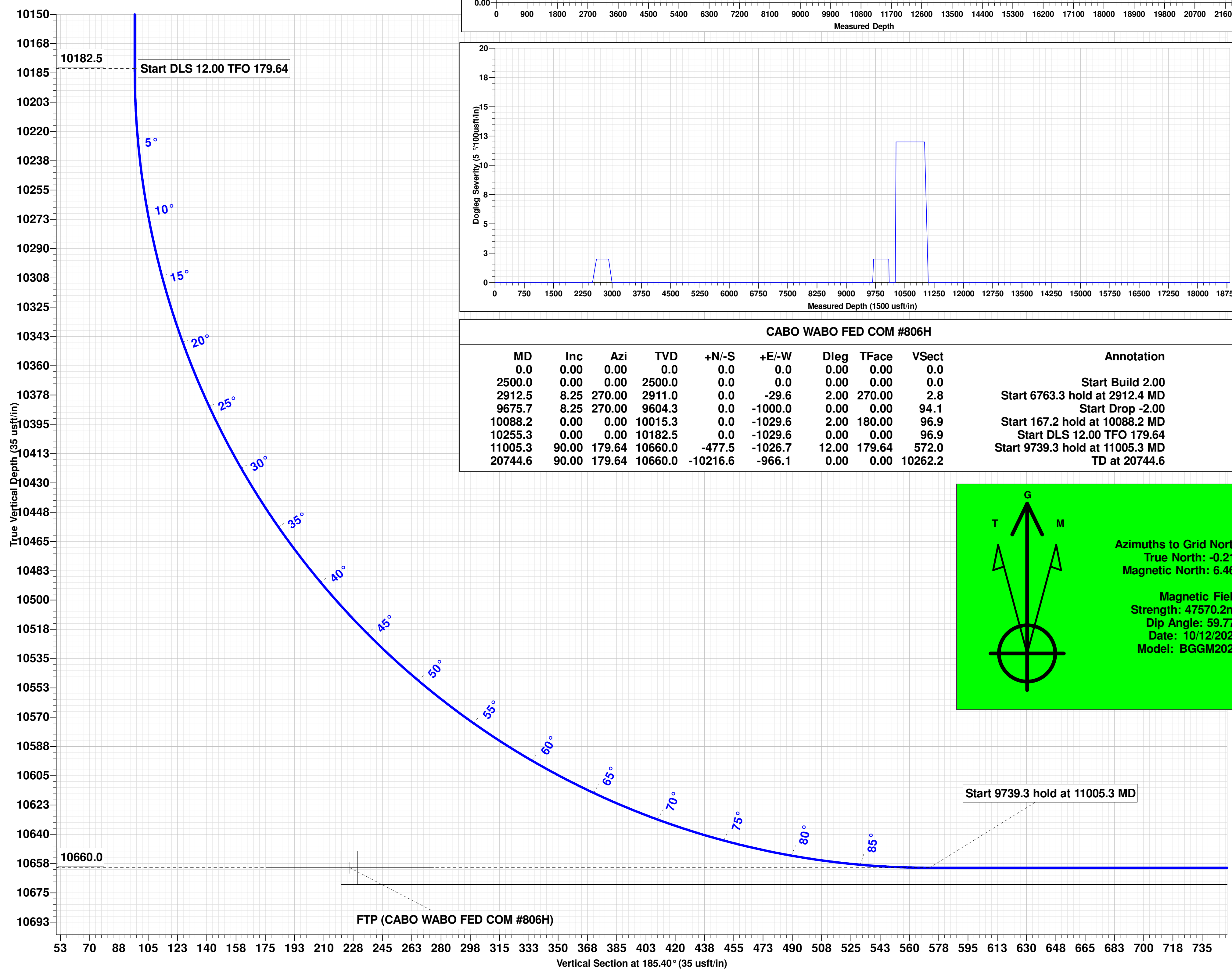
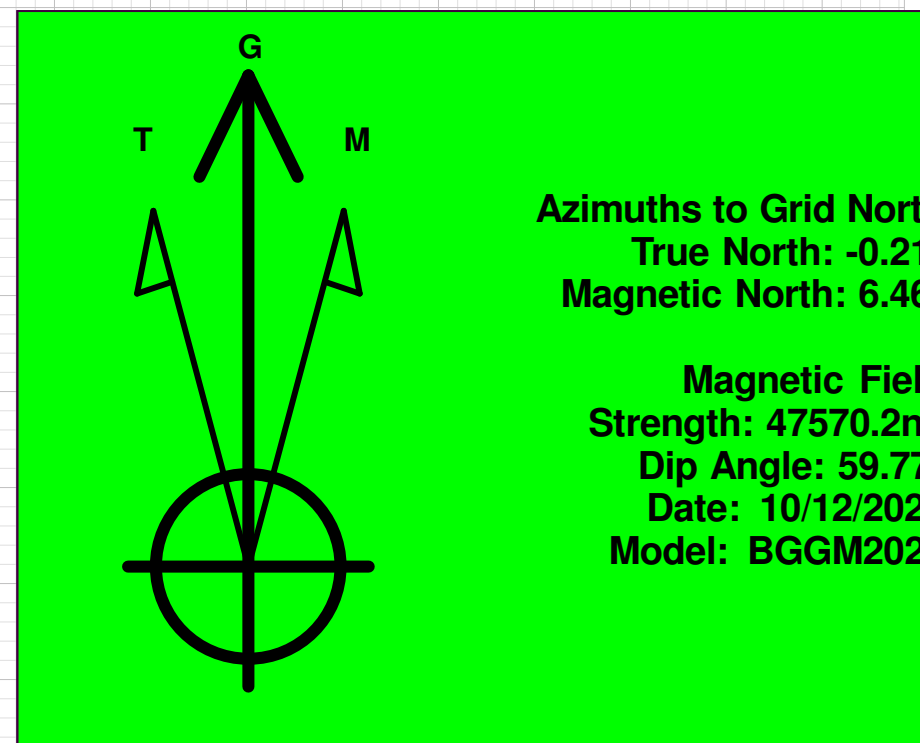
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #806H
Wellbore: OWB
Design: PWP2
GL: 3152.0
KB=25' @ 3177.0usft (P 84)

WELL DETAILS: CABO WABO FED COM #806H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408349.15	621249.81	32° 7' 19.425 N	103° 56' 30.047 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (CABO WABO FED COM #806H)	10660.0	-129.2	-1029.6	408219.97	620220.17	32° 7' 18.183 N
LTP (CABO WABO FED COM #806H)	10660.0	-10086.6	-967.4	398262.56	620282.45	32° 5' 39.639 N
PBHL (CABO WABO FED COM #806H)	10660.0	-10216.6	-966.1	398132.57	620263.72	32° 5' 38.353 N



CABO WABO FED COM #806H									
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 Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 6763.3 hold at 2912.4 MD
2912.5	8.25	270.00	2911.0	0.0	-29.6	2.00	270.00	2.8	Start Drop -2.00
9675.7	8.25	270.00	9604.3	0.0	-1000.0	0.00	0.00	94.1	Start 167.2 hold at 10088.2 MD
10088.2	0.00	0.00	10015.3	0.0	-1029.6	2.00	180.00	96.9	Start DLS 12.00 TFO 179.64
10255.3	0.00	0.00	10182.5	0.0	-1029.6	0.00	0.00	96.9	Start 9739.3 hold at 11005.3 MD
11005.3	90.00	179.64	10660.0	-477.5	-1026.7	12.00	179.64	572.0	TD at 20744.6
20744.6	90.00	179.64	10660.0	-10216.6	-966.1	0.00	0.00	10262.2	



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

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

COMMENTS

Action 82899

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82899
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

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

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CONDITIONS

Action 82899

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82899
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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