

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

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 210 FNL / 1140 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1222268 / LONG: -103.9330684 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 440 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1222268 / LONG: -103.9330684 (TVD: 11505 feet, MD: 11677 feet)

BHL: SESE / 200 FSL / 440 FEL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941422 / LONG: -103.9307149 (TVD: 11486 feet, MD: 21734 feet)

CONFIDENTIAL

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-47757		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 801H	
7 OGRID No. 217955		8 Operator Name COG PRODUCTION LLC			9 Elevation 3145'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	1140'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	25	25-S	29-E		200'	SOUTH	1654'	EAST	EDDY

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

CORNER DATA
NEW MEXICO EAST - NAD 83

A - FOUND IRON PIPE W/ BRASS CAP
N:408605.21' E:661074.26'

B - FOUND IRON PIPE W/ BRASS CAP
N:408628.83' E:663731.32'

C - FOUND IRON PIPE W/ BRASS. CAP
N:408652.38' E:666389.05'

D - FOUND IRON PIPE W/ BRASS CAP
N:405993.34' E:666406.44'

E - FOUND IRON PIPE W/ BRASS CAP
N:403335.51' E:666423.34'

F - FOUND IRON PIPE W/ BRASS CAP
N:403316.17' E:663755.92'

G - FOUND IRON PIPE W/ BRASS CAP
N:403297.54' E:661087.89'

H - FOUND IRON PIPE W/ BRASS CAP
N:405951.58' E:661081.14'

I - FOUND IRON PIPE W/ BRASS CAP
N:400678.65' E:666440.96'

J - FOUND BENT IRON PIPE W/ BRASS CAP
N:398021.31' E:666458.45'

K - FOUND IRON PIPE W/ BRASS CAP
N:398004.27' E:663799.25'

L - FOUND 5/8" IRON ROD
N:397988.59' E:661140.90'

M - FOUND IRON PIPE W/ BRASS CAP
N:400643.27' E:661114.85'

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=665250.39
Y=408432.33
LAT.= 32.1222685° N
LONG.= 103.93306847° W
210' FNL, 1140' FEL
SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=664737.27
Y=408307.73
LAT.= 32.12188957° N
LONG.= 103.93472742° W
330' FNL, 1654' FEL
SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=664802.32
Y=398340.70
LAT.= 32.09449064° N
LONG.= 103.93463639° W
330' FSL, 1654' FEL
SECTION 25

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=664803.17
Y=398210.71
LAT.= 32.09413328° N
LONG.= 103.93463518° W
200' FSL, 1654' FEL
SECTION 25

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

Stan Wagner 10/14/21
Signature Date
Stan Wagner
Printed Name
E-mail Address

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

MARK J. MURRAY
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
12177
8/16/2021
Certificate Number

ConocoPhillips - Cabo Wabo Fed Com #801H

1. Geologic Formations

TVD of target	10,729' EOL	Pilot hole depth	NA
MD at TD:	20,770'	Deepest expected fresh water:	53'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	516	Water	
Top of Salt	903	Salt	
Base of Salt	3170	Salt	
Lamar	3382	Salt Water	
Bell Canyon	3428	Salt Water	
Cherry Canyon	4320	Oil/Gas	
Brushy Canyon	5544	Oil/Gas	
Bone Spring Lime	7207	Oil/Gas	
1st Bone Spring Sand	8172	Oil/Gas	
2nd Bone Spring Sand	8783	Oil/Gas	
3rd Bone Spring Sand	9294	Oil/Gas	
Wolfcamp A	10579	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1350	10.75"	45.5	N80	BTC	4.00	1.67	16.93	17.86
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.24	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.65	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,770	5.5"	20	P110	W441	1.59	2.14	2.99	2.43
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

ConocoPhillips - Cabo Wabo Fed Com #801H

	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 #801H

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
	1053	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 #801H

4. Pressure Control Equipment

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

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

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

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

ConocoPhillips - Cabo Wabo Fed Com #801H

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 #801H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6975 psi at 10729' 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 #801H

OWB

PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	9/9/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,253.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,253.0	20,770.2	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)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	8,075.2	17,420.0	450.0	291.9	2.847	CC, ES, SF
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,503.4	10,400.0	256.8	152.9	2.471	CC, ES, SF
CABO WABO FED COM #701H - OWB - PWP2	2,416.0	2,418.0	260.0	247.6	20.999	CC
CABO WABO FED COM #701H - OWB - PWP2	2,500.0	2,500.0	260.0	247.3	20.494	ES
CABO WABO FED COM #701H - OWB - PWP2	2,700.0	2,685.6	266.3	252.9	19.937	SF
CABO WABO FED COM #702H - OWB - PWP2	2,415.6	2,418.6	230.0	223.2	33.624	CC
CABO WABO FED COM #702H - OWB - PWP2	2,500.0	2,502.9	230.0	223.1	33.345	ES
CABO WABO FED COM #702H - OWB - PWP2	20,770.9	20,905.7	824.1	645.7	4.618	SF
CABO WABO FED COM #703H - OWB - PWP2	4,695.4	4,704.2	84.9	73.2	7.293	CC
CABO WABO FED COM #703H - OWB - PWP2	4,800.0	4,808.4	85.4	73.2	7.026	ES
CABO WABO FED COM #703H - OWB - PWP2	20,770.9	20,785.7	426.9	249.2	2.403	SF
CABO WABO FED COM #802H - OWB - PWP2	2,500.0	2,500.0	30.8	23.8	4.389	CC, ES
CABO WABO FED COM #802H - OWB - PWP2	20,770.9	20,789.6	431.1	253.5	2.427	SF
CABO WABO FED COM #803H - OWB - PWP2	2,500.0	2,500.0	59.9	47.3	4.724	CC, ES
CABO WABO FED COM #803H - OWB - PWP2	20,770.9	20,863.7	824.0	639.5	4.466	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L	20,770.9	8,062.0				Out of Range @TD
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,770.9	10,400.0	370.8	291.5	4.676	
CABO WABO FED COM #701H - OWB - PWP2	20,770.9	20,809.5				Out of Range @TD
CABO WABO FED COM #702H - OWB - PWP2	20,770.9	20,905.7	824.1	645.7	4.618	SF
CABO WABO FED COM #703H - OWB - PWP2	20,770.9	20,785.7	426.9	249.2	2.403	SF
CABO WABO FED COM #802H - OWB - PWP2	20,770.9	20,789.6	431.1	253.5	2.427	SF
CABO WABO FED COM #803H - OWB - PWP2	20,770.9	20,863.7	824.0	639.5	4.466	SF

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-LAT 01													Offset Site Error: 3.0 usft
Survey Program: 25- VES GyroFlex, 7336-MWD													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,200.0	7,192.4	17,420.0	7,944.9	8.7	161.2	-20.33	-156.3	-663.8	984.1	867.8	116.36	8.458	
7,300.0	7,291.9	17,420.0	7,944.9	8.7	161.2	-20.33	-156.3	-663.8	896.4	776.2	120.18	7.459	
7,400.0	7,391.4	17,420.0	7,944.9	8.8	161.2	-20.33	-156.3	-663.8	811.4	686.7	124.71	6.506	
7,500.0	7,490.9	17,420.0	7,944.9	8.9	161.2	-20.33	-156.3	-663.8	730.3	600.3	130.07	5.615	
7,600.0	7,590.4	17,420.0	7,944.9	8.9	161.2	-20.33	-156.3	-663.8	654.5	518.2	136.27	4.803	
7,700.0	7,689.9	17,420.0	7,944.9	9.0	161.2	-20.33	-156.3	-663.8	585.9	442.8	143.14	4.093	
7,800.0	7,789.4	17,420.0	7,944.9	9.1	161.2	-20.33	-156.3	-663.8	527.5	377.4	150.08	3.515	
7,900.0	7,888.9	17,420.0	7,944.9	9.2	161.2	-20.33	-156.3	-663.8	482.9	327.1	155.84	3.099	
8,000.0	7,988.3	17,420.0	7,944.9	9.3	161.2	-20.33	-156.3	-663.8	456.2	297.5	158.67	2.875	
8,075.2	8,063.2	17,420.0	7,944.9	9.3	161.2	-20.33	-156.3	-663.8	450.0	291.9	158.04	2.847	CC, ES, SF
8,100.0	8,087.8	17,420.0	7,944.9	9.3	161.2	-20.33	-156.3	-663.8	450.7	293.4	157.27	2.865	
8,200.0	8,187.3	17,420.0	7,944.9	9.4	161.2	-20.33	-156.3	-663.8	467.0	315.3	151.69	3.078	
8,300.0	8,286.8	17,420.0	7,944.9	9.5	161.2	-20.33	-156.3	-663.8	503.0	359.6	143.37	3.508	
8,400.0	8,386.3	17,420.0	7,944.9	9.6	161.2	-20.33	-156.3	-663.8	554.9	420.6	134.32	4.131	
8,500.0	8,485.8	17,420.0	7,944.9	9.7	161.2	-20.33	-156.3	-663.8	618.8	492.8	126.02	4.910	
8,600.0	8,585.3	17,420.0	7,944.9	9.8	161.2	-20.33	-156.3	-663.8	691.3	572.2	119.07	5.806	
8,700.0	8,684.8	17,420.0	7,944.9	9.8	161.2	-20.33	-156.3	-663.8	769.9	656.4	113.55	6.781	
8,800.0	8,784.3	17,420.0	7,944.9	9.9	161.2	-20.33	-156.3	-663.8	853.1	743.8	109.28	7.806	
8,900.0	8,883.8	17,420.0	7,944.9	10.0	161.2	-20.33	-156.3	-663.8	939.5	833.5	106.03	8.861	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE - AWP-PH													Offset Site Error:	3.0 usft
Survey Program: 25- VES GyroFlex							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	
19,600.0	10,729.0	10,400.0	10,398.3	78.7	8.5	7.41	-9,954.1	-482.3	939.2	903.2	36.04	26.058		
19,700.0	10,729.0	10,400.0	10,398.3	79.6	8.5	7.41	-9,954.1	-482.3	843.5	805.3	38.14	22.118		
19,800.0	10,729.0	10,400.0	10,398.3	80.5	8.5	7.41	-9,954.1	-482.3	748.8	707.9	40.89	18.312		
19,900.0	10,729.0	10,400.0	10,398.3	81.3	8.5	7.41	-9,954.1	-482.3	655.8	611.2	44.61	14.701		
20,000.0	10,729.0	10,400.0	10,398.3	82.2	8.5	7.41	-9,954.1	-482.3	565.2	515.4	49.72	11.367		
20,100.0	10,729.0	10,400.0	10,398.3	83.0	8.5	7.41	-9,954.1	-482.3	478.2	421.4	56.85	8.412		
20,200.0	10,729.0	10,400.0	10,398.3	83.9	8.5	7.41	-9,954.1	-482.3	397.5	330.7	66.82	5.949		
20,300.0	10,729.0	10,400.0	10,398.3	84.7	8.5	7.41	-9,954.1	-482.3	327.6	247.5	80.14	4.088		
20,400.0	10,729.0	10,400.0	10,398.3	85.6	8.5	7.41	-9,954.1	-482.3	276.9	181.9	94.95	2.916		
20,500.0	10,729.0	10,400.0	10,398.3	86.4	8.5	7.41	-9,954.1	-482.3	256.9	153.0	103.85	2.473		
20,503.4	10,729.0	10,400.0	10,398.3	86.5	8.5	7.41	-9,954.1	-482.3	256.8	152.9	103.94	2.471	CC, ES, SF	
20,600.0	10,729.0	10,400.0	10,398.3	87.3	8.5	7.41	-9,954.1	-482.3	274.4	174.5	99.90	2.747		
20,700.0	10,729.0	10,400.0	10,398.3	88.1	8.5	7.41	-9,954.1	-482.3	323.4	235.4	88.06	3.673		
20,770.9	10,729.0	10,400.0	10,398.3	88.6	8.5	7.41	-9,954.1	-482.3	370.8	291.5	79.31	4.676		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #701H - OWB - PWP2													Offset Site Error: 3.0 usft				
Survey Program: 0-MWD+IFR1+FDIR				Reference		Offset		Semi Major Axis		Highside Toolface (°)		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	89.53	2.1	260.0	260.0								
100.0	100.0	102.0	102.0	3.0	3.0	89.53	2.1	260.0	260.0	254.0	6.00	43.308					
200.0	200.0	202.0	202.0	3.0	3.0	89.53	2.1	260.0	260.0	254.0	6.04	43.025					
300.0	300.0	302.0	302.0	3.0	3.1	89.53	2.1	260.0	260.0	253.9	6.13	42.449					
400.0	400.0	402.0	402.0	3.0	3.2	89.53	2.1	260.0	260.0	253.8	6.25	41.622					
500.0	500.0	502.0	502.0	3.1	3.4	89.53	2.1	260.0	260.0	253.6	6.40	40.599					
600.0	600.0	602.0	602.0	3.1	3.6	89.53	2.1	260.0	260.0	253.4	6.59	39.437					
700.0	700.0	702.0	702.0	3.1	3.8	89.53	2.1	260.0	260.0	253.2	6.81	38.188					
800.0	800.0	802.0	802.0	3.2	4.0	89.53	2.1	260.0	260.0	253.0	7.05	36.894					
900.0	900.0	902.0	902.0	3.2	4.2	89.53	2.1	260.0	260.0	252.7	7.31	35.588					
1,000.0	1,000.0	1,002.0	1,002.0	3.2	4.5	89.53	2.1	260.0	260.0	252.4	7.58	34.297					
1,100.0	1,100.0	1,102.0	1,102.0	3.3	4.8	89.53	2.1	260.0	260.0	252.1	7.87	33.036					
1,200.0	1,200.0	1,202.0	1,202.0	3.4	5.1	89.53	2.1	260.0	260.0	251.8	8.17	31.818					
1,300.0	1,300.0	1,302.0	1,302.0	3.4	5.4	89.53	2.1	260.0	260.0	251.5	8.48	30.649					
1,400.0	1,400.0	1,402.0	1,402.0	3.5	5.7	89.53	2.1	260.0	260.0	251.2	8.80	29.532					
1,500.0	1,500.0	1,502.0	1,502.0	3.5	6.0	89.53	2.1	260.0	260.0	250.9	9.13	28.470					
1,600.0	1,600.0	1,602.0	1,602.0	3.6	6.3	89.53	2.1	260.0	260.0	250.5	9.47	27.462					
1,700.0	1,700.0	1,702.0	1,702.0	3.7	6.6	89.53	2.1	260.0	260.0	250.2	9.81	26.506					
1,800.0	1,800.0	1,802.0	1,802.0	3.8	6.9	89.53	2.1	260.0	260.0	249.8	10.16	25.601					
1,900.0	1,900.0	1,902.0	1,902.0	3.9	7.2	89.53	2.1	260.0	260.0	249.5	10.51	24.745					
2,000.0	2,000.0	2,002.0	2,002.0	3.9	7.6	89.53	2.1	260.0	260.0	249.1	10.86	23.934					
2,100.0	2,100.0	2,102.0	2,102.0	4.0	7.9	89.53	2.1	260.0	260.0	248.8	11.22	23.167					
2,200.0	2,200.0	2,202.0	2,202.0	4.1	8.2	89.53	2.1	260.0	260.0	248.4	11.59	22.441					
2,300.0	2,300.0	2,302.0	2,302.0	4.2	8.6	89.53	2.1	260.0	260.0	248.0	11.95	21.753					
2,400.0	2,400.0	2,402.0	2,402.0	4.3	8.9	89.53	2.1	260.0	260.0	247.7	12.32	21.100					
2,416.0	2,416.0	2,418.0	2,418.0	4.3	9.0	89.53	2.1	260.0	260.0	247.6	12.38	20.999 CC					
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	89.53	2.1	260.0	260.0	247.3	12.69	20.494 ES					
2,600.0	2,600.0	2,593.8	2,593.8	4.5	9.6	89.43	2.6	261.5	261.6	248.6	13.03	20.076					
2,700.0	2,700.0	2,685.6	2,685.4	4.6	9.9	89.16	3.9	265.7	266.3	252.9	13.36	19.937 SF					
2,800.0	2,800.0	2,776.9	2,776.5	4.7	10.2	88.74	6.0	272.8	274.1	260.4	13.67	20.042					
2,900.0	2,900.0	2,874.3	2,873.3	4.8	10.5	88.20	8.9	282.5	284.0	270.0	14.03	20.247					
3,000.0	3,000.0	2,973.7	2,972.2	4.9	10.8	87.67	11.9	292.4	294.2	279.8	14.40	20.425					
3,100.0	3,100.0	3,073.2	3,071.1	5.0	11.2	87.18	14.9	302.4	304.3	289.5	14.78	20.592					
3,200.0	3,200.0	3,172.6	3,170.0	5.1	11.5	86.72	17.9	312.3	314.5	299.3	15.16	20.748					
3,300.0	3,300.0	3,272.1	3,268.9	5.2	11.8	86.29	20.9	322.3	324.6	309.1	15.54	20.893					
3,400.0	3,400.0	3,371.5	3,367.8	5.3	12.2	85.89	23.9	332.2	334.8	318.9	15.92	21.029					
3,500.0	3,500.0	3,471.0	3,466.7	5.4	12.5	85.51	26.9	342.2	345.0	328.7	16.31	21.156					
3,600.0	3,600.0	3,570.4	3,565.7	5.5	12.9	85.16	29.8	352.1	355.3	338.6	16.70	21.276					
3,700.0	3,700.0	3,669.9	3,664.6	5.7	13.2	84.82	32.8	362.1	365.5	348.4	17.09	21.387					
3,800.0	3,800.0	3,769.3	3,763.5	5.8	13.5	84.50	35.8	372.1	375.8	358.3	17.48	21.492					
3,900.0	3,900.0	3,868.8	3,862.4	5.9	13.9	84.20	38.8	382.0	386.0	368.1	17.88	21.591					
4,000.0	4,000.0	3,968.2	3,961.3	6.0	14.2	83.91	41.8	392.0	396.3	378.0	18.28	21.683					
4,100.0	4,100.0	4,067.7	4,060.2	6.1	14.6	83.64	44.8	401.9	406.6	387.9	18.68	21.771					
4,200.0	4,200.0	4,167.1	4,159.1	6.2	14.9	83.38	47.8	411.9	416.9	397.8	19.08	21.853					
4,300.0	4,300.0	4,266.6	4,258.0	6.3	15.3	83.13	50.8	421.8	427.2	407.7	19.48	21.930					
4,400.0	4,400.0	4,366.0	4,356.9	6.5	15.6	82.90	53.8	431.8	437.5	417.6	19.88	22.003					
4,500.0	4,500.0	4,465.5	4,455.8	6.6	16.0	82.68	56.8	441.7	447.8	427.5	20.29	22.071					
4,600.0	4,600.0	4,564.9	4,554.7	6.7	16.3	82.46	59.8	451.7	458.1	437.4	20.69	22.136					
4,700.0	4,700.0	4,664.4	4,653.6	6.8	16.7	82.26	62.8	461.7	468.4	447.3	21.10	22.197					
4,800.0	4,800.0	4,763.8	4,752.5	6.9	17.0	82.06	65.8	471.6	478.7	457.2	21.51	22.255					
4,900.0	4,900.0	4,863.3	4,851.4	7.0	17.4	81.88	68.7	481.6	489.1	467.1	21.92	22.310					

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #701H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,000.0	5,000.0	4,962.8	4,950.4	7.2	17.7	81.70	71.7	491.5	499.4	477.1	22.33	22.362	
5,100.0	5,100.0	5,062.2	5,049.3	7.3	18.1	81.52	74.7	501.5	509.8	487.0	22.75	22.411	
5,200.0	5,200.0	5,161.7	5,148.2	7.4	18.5	81.36	77.7	511.4	520.1	496.9	23.16	22.458	
5,300.0	5,300.0	5,261.1	5,247.1	7.5	18.8	81.20	80.7	521.4	530.5	506.9	23.57	22.502	
5,400.0	5,400.0	5,360.6	5,346.0	7.6	19.2	81.05	83.7	531.3	540.8	516.8	23.99	22.544	
5,500.0	5,500.0	5,460.0	5,444.9	7.8	19.5	80.90	86.7	541.3	551.2	526.8	24.41	22.584	
5,600.0	5,600.0	5,559.3	5,543.6	7.8	19.9	170.75	89.7	551.2	563.2	538.4	24.81	22.702	
5,700.0	5,699.8	5,658.1	5,641.9	7.9	20.2	170.65	92.7	561.1	578.7	553.5	25.20	22.963	
5,788.0	5,787.5	5,744.5	5,727.8	7.9	20.5	170.60	95.3	569.8	595.2	569.6	25.55	23.294	
5,800.0	5,799.5	5,756.3	5,739.5	7.9	20.6	170.60	95.6	571.0	597.6	572.0	25.60	23.345	
5,900.0	5,898.9	5,854.2	5,836.9	8.0	20.9	170.63	98.6	580.8	617.7	591.8	25.99	23.764	
6,000.0	5,998.4	5,952.1	5,934.3	8.0	21.3	170.65	101.5	590.6	637.9	611.5	26.40	24.168	
6,100.0	6,097.9	6,050.1	6,031.7	8.0	21.6	170.67	104.4	600.4	658.1	631.3	26.80	24.556	
6,200.0	6,197.4	6,148.0	6,129.1	8.1	22.0	170.70	107.4	610.2	678.2	651.0	27.21	24.930	
6,300.0	6,296.9	6,246.0	6,226.6	8.1	22.3	170.72	110.3	620.0	698.4	670.8	27.62	25.290	
6,400.0	6,396.4	6,343.9	6,324.0	8.2	22.7	170.74	113.3	629.8	718.6	690.5	28.03	25.636	
6,500.0	6,495.9	6,441.9	6,421.4	8.2	23.0	170.76	116.2	639.6	738.7	710.3	28.45	25.970	
6,600.0	6,595.4	6,539.8	6,518.8	8.3	23.4	170.77	119.2	649.4	758.9	730.0	28.86	26.292	
6,700.0	6,694.9	6,637.8	6,616.2	8.4	23.7	170.79	122.1	659.2	779.1	749.8	29.29	26.602	
6,800.0	6,794.4	6,735.7	6,713.6	8.4	24.1	170.81	125.1	669.0	799.2	769.5	29.71	26.901	
6,900.0	6,893.9	6,833.7	6,811.0	8.5	24.5	170.82	128.0	678.8	819.4	789.3	30.14	27.190	
7,000.0	6,993.4	6,931.6	6,908.4	8.5	24.8	170.84	131.0	688.6	839.6	809.0	30.57	27.468	
7,100.0	7,092.9	7,034.2	7,010.5	8.6	25.2	170.85	134.0	698.8	859.7	828.7	31.01	27.725	
7,200.0	7,192.4	7,149.8	7,125.6	8.7	25.6	170.88	137.0	708.7	878.3	846.8	31.48	27.905	
7,300.0	7,291.9	7,266.3	7,241.8	8.7	26.0	170.93	139.3	716.3	895.0	863.1	31.94	28.020	
7,400.0	7,391.4	7,383.5	7,358.9	8.8	26.4	171.00	140.9	721.8	909.7	877.3	32.41	28.072	
7,500.0	7,490.9	7,501.3	7,476.7	8.9	26.8	171.09	141.9	725.0	922.4	889.5	32.87	28.063	
7,600.0	7,590.4	7,617.0	7,592.4	8.9	27.2	171.19	142.1	725.8	933.0	899.7	33.32	28.002	
7,700.0	7,689.9	7,716.5	7,691.9	9.0	27.6	171.29	142.1	725.8	943.0	909.2	33.75	27.938	
7,800.0	7,789.4	7,816.0	7,791.4	9.1	27.9	171.38	142.1	725.8	952.9	918.7	34.18	27.875	
7,900.0	7,888.9	7,915.5	7,890.9	9.2	28.3	171.47	142.1	725.8	962.8	928.2	34.62	27.812	
8,000.0	7,988.3	8,015.0	7,990.3	9.3	28.6	171.55	142.1	725.8	972.7	937.7	35.05	27.749	
8,100.0	8,087.8	8,114.5	8,089.8	9.3	29.0	171.64	142.1	725.8	982.7	947.2	35.49	27.686	
8,200.0	8,187.3	8,214.0	8,189.3	9.4	29.3	171.73	142.1	725.8	992.6	956.7	35.93	27.624	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10266-MWD+IFR1+FDIR		Offset		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	3.0	3.0	3.0	3.0	89.52	1.9	230.0	230.0					
100.0	100.0	103.0	103.0	3.0	3.0	89.52	1.9	230.0	230.0	224.0	6.00	38.338		
200.0	200.0	203.0	203.0	3.0	3.0	89.52	1.9	230.0	230.0	224.0	6.00	38.320		
300.0	300.0	303.0	303.0	3.0	3.0	89.52	1.9	230.0	230.0	224.0	6.01	38.281		
400.0	400.0	403.0	403.0	3.0	3.0	89.52	1.9	230.0	230.0	224.0	6.02	38.221		
500.0	500.0	503.0	503.0	3.1	3.1	89.52	1.9	230.0	230.0	224.0	6.03	38.142		
600.0	600.0	603.0	603.0	3.1	3.1	89.52	1.9	230.0	230.0	224.0	6.05	38.042		
700.0	700.0	703.0	703.0	3.1	3.1	89.52	1.9	230.0	230.0	224.0	6.07	37.923		
800.0	800.0	803.0	803.0	3.2	3.2	89.52	1.9	230.0	230.0	224.0	6.09	37.786		
900.0	900.0	903.0	903.0	3.2	3.2	89.52	1.9	230.0	230.0	223.9	6.11	37.630		
1,000.0	1,000.0	1,003.0	1,003.0	3.2	3.2	89.52	1.9	230.0	230.0	223.9	6.14	37.457		
1,100.0	1,100.0	1,103.0	1,103.0	3.3	3.3	89.52	1.9	230.0	230.0	223.9	6.17	37.267		
1,200.0	1,200.0	1,203.0	1,203.0	3.4	3.4	89.52	1.9	230.0	230.0	223.8	6.21	37.061		
1,300.0	1,300.0	1,303.0	1,303.0	3.4	3.4	89.52	1.9	230.0	230.0	223.8	6.24	36.840		
1,400.0	1,400.0	1,403.0	1,403.0	3.5	3.5	89.52	1.9	230.0	230.0	223.8	6.28	36.605		
1,500.0	1,500.0	1,503.0	1,503.0	3.5	3.5	89.52	1.9	230.0	230.0	223.7	6.33	36.356		
1,600.0	1,600.0	1,603.0	1,603.0	3.6	3.6	89.52	1.9	230.0	230.0	223.7	6.37	36.096		
1,700.0	1,700.0	1,703.0	1,703.0	3.7	3.7	89.52	1.9	230.0	230.0	223.6	6.42	35.823		
1,800.0	1,800.0	1,803.0	1,803.0	3.8	3.8	89.52	1.9	230.0	230.0	223.6	6.47	35.541		
1,900.0	1,900.0	1,903.0	1,903.0	3.9	3.9	89.52	1.9	230.0	230.0	223.5	6.53	35.249		
2,000.0	2,000.0	2,003.0	2,003.0	3.9	3.9	89.52	1.9	230.0	230.0	223.5	6.58	34.948		
2,100.0	2,100.0	2,103.0	2,103.0	4.0	4.0	89.52	1.9	230.0	230.0	223.4	6.64	34.639		
2,200.0	2,200.0	2,203.0	2,203.0	4.1	4.1	89.52	1.9	230.0	230.0	223.3	6.70	34.324		
2,300.0	2,300.0	2,303.0	2,303.0	4.2	4.2	89.52	1.9	230.0	230.0	223.3	6.77	34.002		
2,400.0	2,400.0	2,403.0	2,403.0	4.3	4.3	89.52	1.9	230.0	230.0	223.2	6.83	33.675		
2,415.6	2,415.6	2,418.6	2,418.6	4.3	4.3	89.52	1.9	230.0	230.0	223.2	6.84	33.624 CC		
2,500.0	2,500.0	2,502.9	2,502.9	4.4	4.4	89.52	1.9	230.0	230.0	223.1	6.90	33.345 ES		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	89.15	3.4	230.9	230.9	224.0	6.97	33.142		
2,700.0	2,700.0	2,694.8	2,694.6	4.6	4.6	88.12	7.7	233.3	233.6	226.6	7.04	33.172		
2,800.0	2,800.0	2,794.3	2,793.9	4.7	4.7	86.70	13.7	236.8	237.4	230.2	7.13	33.300		
2,900.0	2,900.0	2,894.0	2,893.4	4.8	4.7	85.32	19.7	240.3	241.3	234.1	7.22	33.405		
3,000.0	3,000.0	2,993.8	2,992.9	4.9	4.8	83.98	25.7	243.8	245.3	238.0	7.33	33.484		
3,100.0	3,100.0	3,093.6	3,092.4	5.0	4.9	82.68	31.7	247.2	249.5	242.1	7.44	33.540		
3,200.0	3,200.0	3,193.3	3,191.9	5.1	5.0	81.43	37.8	250.7	253.8	246.2	7.56	33.572		
3,300.0	3,300.0	3,293.1	3,291.5	5.2	5.1	80.22	43.8	254.2	258.2	250.5	7.69	33.583		
3,400.0	3,400.0	3,392.8	3,391.0	5.3	5.2	79.06	49.8	257.7	262.7	254.9	7.83	33.573		
3,500.0	3,500.0	3,492.6	3,490.5	5.4	5.3	77.93	55.8	261.2	267.4	259.4	7.97	33.544		
3,600.0	3,600.0	3,592.3	3,590.0	5.5	5.4	76.84	61.9	264.6	272.1	264.0	8.12	33.498		
3,700.0	3,700.0	3,692.1	3,689.5	5.7	5.5	75.79	67.9	268.1	276.9	268.6	8.28	33.438		
3,800.0	3,800.0	3,791.9	3,789.0	5.8	5.6	74.77	73.9	271.6	281.8	273.4	8.45	33.365		
3,900.0	3,900.0	3,891.6	3,888.5	5.9	5.7	73.79	80.0	275.1	286.8	278.2	8.62	33.281		
4,000.0	4,000.0	3,991.4	3,988.1	6.0	5.8	72.85	86.0	278.6	291.9	283.1	8.80	33.187		
4,100.0	4,100.0	4,091.1	4,087.6	6.1	5.9	71.93	92.0	282.0	297.1	288.1	8.98	33.086		
4,200.0	4,200.0	4,190.9	4,187.1	6.2	6.1	71.05	98.0	285.5	302.3	293.1	9.17	32.979		
4,300.0	4,300.0	4,290.6	4,286.6	6.3	6.2	70.20	104.1	289.0	307.6	298.2	9.36	32.867		
4,400.0	4,400.0	4,390.4	4,386.1	6.5	6.3	69.37	110.1	292.5	313.0	303.4	9.56	32.751		
4,500.0	4,500.0	4,490.1	4,485.6	6.6	6.4	68.58	116.1	295.9	318.4	308.6	9.76	32.633		
4,600.0	4,600.0	4,589.9	4,585.1	6.7	6.5	67.81	122.1	299.4	323.9	313.9	9.96	32.514		
4,700.0	4,700.0	4,689.7	4,684.6	6.8	6.6	67.07	128.2	302.9	329.4	319.2	10.17	32.394		
4,800.0	4,800.0	4,793.0	4,787.8	6.9	6.7	66.37	134.0	306.3	334.6	324.2	10.38	32.239		
4,900.0	4,900.0	4,897.8	4,892.5	7.0	6.8	65.87	138.3	308.7	338.5	327.9	10.58	31.989		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2													Offset Site Error: 3.0 usft		
Survey Program: Reference		0-Standard Keeper 104, 10266-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		
5,000.0	5,000.0	5,002.9	4,997.5	7.2	7.0	65.57	140.9	310.3	340.8	330.1	10.77	31.646			
5,100.0	5,100.0	5,108.0	5,102.6	7.3	7.1	65.46	141.9	310.8	341.7	330.8	10.95	31.215			
5,200.0	5,200.0	5,208.4	5,203.0	7.4	7.2	65.46	141.9	310.8	341.7	330.6	11.09	30.820			
5,300.0	5,300.0	5,308.4	5,303.0	7.5	7.3	65.46	141.9	310.8	341.7	330.5	11.23	30.437			
5,400.0	5,400.0	5,408.4	5,403.0	7.6	7.4	65.46	141.9	310.8	341.7	330.3	11.37	30.062			
5,500.0	5,500.0	5,508.4	5,503.0	7.8	7.5	65.46	141.9	310.8	341.7	330.2	11.51	29.694			
5,600.0	5,600.0	5,608.4	5,603.0	7.8	7.7	155.57	141.9	310.8	343.3	331.7	11.60	29.582			
5,700.0	5,699.8	5,708.2	5,702.8	7.9	7.8	155.89	141.9	310.8	348.1	336.4	11.65	29.878			
5,788.0	5,787.5	5,795.9	5,790.5	7.9	7.9	156.32	141.9	310.8	354.9	343.2	11.68	30.396			
5,800.0	5,799.5	5,807.9	5,802.5	7.9	7.9	156.40	141.9	310.8	356.0	344.3	11.68	30.483			
5,900.0	5,898.9	5,907.4	5,901.9	8.0	8.0	157.03	141.9	310.8	365.2	353.5	11.71	31.195			
6,000.0	5,998.4	6,006.8	6,001.4	8.0	8.1	157.63	141.9	310.8	374.5	362.8	11.74	31.889			
6,100.0	6,097.9	6,106.3	6,100.9	8.0	8.3	158.20	141.9	310.8	383.8	372.0	11.79	32.563			
6,200.0	6,197.4	6,205.8	6,200.4	8.1	8.4	158.74	141.9	310.8	393.2	381.3	11.84	33.216			
6,300.0	6,296.9	6,305.3	6,299.9	8.1	8.5	159.26	141.9	310.8	402.5	390.6	11.89	33.848			
6,400.0	6,396.4	6,404.8	6,399.4	8.2	8.6	159.75	141.9	310.8	411.9	400.0	11.95	34.459			
6,500.0	6,495.9	6,504.3	6,498.9	8.2	8.7	160.23	141.9	310.8	421.4	409.4	12.02	35.048			
6,600.0	6,595.4	6,603.8	6,598.4	8.3	8.9	160.68	141.9	310.8	430.8	418.7	12.10	35.616			
6,700.0	6,694.9	6,703.3	6,697.9	8.4	9.0	161.11	141.9	310.8	440.3	428.2	12.18	36.163			
6,800.0	6,794.4	6,802.8	6,797.4	8.4	9.1	161.52	141.9	310.8	449.8	437.6	12.26	36.688			
6,900.0	6,893.9	6,902.3	6,896.9	8.5	9.2	161.92	141.9	310.8	459.4	447.0	12.35	37.193			
7,000.0	6,993.4	7,001.8	6,996.4	8.5	9.4	162.30	141.9	310.8	468.9	456.5	12.45	37.677			
7,100.0	7,092.9	7,101.3	7,095.9	8.6	9.5	162.66	141.9	310.8	478.5	466.0	12.55	38.142			
7,200.0	7,192.4	7,200.8	7,195.4	8.7	9.6	163.02	141.9	310.8	488.1	475.5	12.65	38.587			
7,300.0	7,291.9	7,300.3	7,294.9	8.7	9.7	163.35	141.9	310.8	497.7	485.0	12.76	39.013			
7,400.0	7,391.4	7,399.8	7,394.4	8.8	9.8	163.68	141.9	310.8	507.3	494.5	12.87	39.421			
7,500.0	7,490.9	7,499.3	7,493.9	8.9	10.0	163.99	141.9	310.8	517.0	504.0	12.99	39.811			
7,600.0	7,590.4	7,598.8	7,593.4	8.9	10.1	164.29	141.9	310.8	526.6	513.5	13.11	40.184			
7,700.0	7,689.9	7,698.3	7,692.9	9.0	10.2	164.58	141.9	310.8	536.3	523.1	13.23	40.541			
7,800.0	7,789.4	7,797.8	7,792.4	9.1	10.3	164.86	141.9	310.8	546.0	532.6	13.36	40.882			
7,900.0	7,888.9	7,897.3	7,891.9	9.2	10.5	165.13	141.9	310.8	555.7	542.2	13.49	41.208			
8,000.0	7,988.3	7,996.7	7,991.3	9.3	10.6	165.39	141.9	310.8	565.4	551.8	13.62	41.519			
8,100.0	8,087.8	8,096.2	8,090.8	9.3	10.7	165.64	141.9	310.8	575.1	561.4	13.75	41.817			
8,200.0	8,187.3	8,195.7	8,190.3	9.4	10.8	165.89	141.9	310.8	584.9	571.0	13.89	42.101			
8,300.0	8,286.8	8,295.2	8,289.8	9.5	11.0	166.12	141.9	310.8	594.6	580.6	14.03	42.373			
8,400.0	8,386.3	8,394.7	8,389.3	9.6	11.1	166.35	141.9	310.8	604.3	590.2	14.18	42.633			
8,500.0	8,485.8	8,494.2	8,488.8	9.7	11.2	166.57	141.9	310.8	614.1	599.8	14.32	42.881			
8,600.0	8,585.3	8,593.7	8,588.3	9.8	11.3	166.79	141.9	310.8	623.9	609.4	14.47	43.119			
8,700.0	8,684.8	8,693.2	8,687.8	9.8	11.5	166.99	141.9	310.8	633.7	619.0	14.62	43.346			
8,800.0	8,784.3	8,792.7	8,787.3	9.9	11.6	167.20	141.9	310.8	643.4	628.7	14.77	43.563			
8,900.0	8,883.8	8,892.2	8,886.8	10.0	11.7	167.39	141.9	310.8	653.2	638.3	14.92	43.771			
9,000.0	8,983.3	8,991.7	8,986.3	10.1	11.8	167.58	141.9	310.8	663.0	648.0	15.08	43.970			
9,100.0	9,082.8	9,091.2	9,085.8	10.2	12.0	167.76	141.9	310.8	672.8	657.6	15.24	44.160			
9,200.0	9,182.3	9,190.7	9,185.3	10.3	12.1	167.94	141.9	310.8	682.7	667.3	15.40	44.343			
9,300.0	9,281.8	9,290.2	9,284.8	10.4	12.2	168.12	141.9	310.8	692.5	676.9	15.56	44.517			
9,400.0	9,381.3	9,389.7	9,384.3	10.5	12.3	168.28	141.9	310.8	702.3	686.6	15.72	44.684			
9,500.0	9,480.8	9,489.2	9,483.8	10.6	12.5	168.45	141.9	310.8	712.1	696.3	15.88	44.844			
9,600.0	9,580.3	9,588.7	9,583.3	10.7	12.6	168.61	141.9	310.8	722.0	705.9	16.04	44.998			
9,700.0	9,679.8	9,688.2	9,682.8	10.8	12.7	168.76	141.9	310.8	731.8	715.6	16.21	45.145			
9,800.0	9,779.3	9,787.7	9,782.3	10.9	12.9	168.91	141.9	310.8	741.7	725.3	16.38	45.286			
9,900.0	9,878.8	9,887.2	9,881.8	11.0	13.0	169.06	141.9	310.8	751.5	735.0	16.55	45.421			

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10266-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
10,000.0	9,978.2	9,986.6	9,981.2	11.1	13.1	169.20		141.9	310.8	761.4	744.7	16.71	45.551	
10,100.0	10,077.7	10,086.1	10,080.7	11.2	13.2	169.34		141.9	310.8	771.2	754.3	16.89	45.676	
10,200.0	10,177.2	10,185.6	10,180.2	11.3	13.4	169.48		141.9	310.8	781.1	764.0	17.06	45.795	
10,276.7	10,253.6	10,262.0	10,256.6	11.4	13.4	169.58		141.9	310.8	788.7	771.4	17.30	45.582	
10,300.0	10,276.7	10,289.3	10,283.9	11.4	13.4	-164.31		141.7	310.8	791.0	773.8	17.29	45.745	
10,325.0	10,301.5	10,324.2	10,318.7	11.4	13.4	-144.63		139.4	310.9	793.5	776.3	17.26	45.976	
10,350.0	10,326.2	10,359.1	10,353.3	11.4	13.4	-132.63		134.5	310.9	795.9	778.7	17.24	46.167	
10,375.0	10,350.7	10,394.0	10,387.4	11.4	13.5	-125.04		127.1	310.9	798.2	781.0	17.23	46.317	
10,400.0	10,374.9	10,428.7	10,420.7	11.4	13.5	-119.87		117.4	311.0	800.4	783.2	17.24	46.425	
10,425.0	10,398.8	10,463.2	10,453.0	11.4	13.5	-116.10		105.3	311.1	802.5	785.2	17.26	46.492	
10,450.0	10,422.2	10,497.5	10,484.1	11.4	13.5	-113.19		91.0	311.2	804.4	787.1	17.29	46.523	
10,475.0	10,445.3	10,531.5	10,513.9	11.4	13.5	-110.84		74.6	311.3	806.3	788.9	17.33	46.518	
10,500.0	10,467.8	10,565.1	10,542.1	11.5	13.6	-108.86		56.4	311.4	808.0	790.6	17.38	46.481	
10,525.0	10,489.7	10,598.3	10,568.7	11.5	13.6	-107.15		36.5	311.5	809.6	792.2	17.44	46.418	
10,550.0	10,510.9	10,631.0	10,593.5	11.5	13.6	-105.64		15.2	311.6	811.2	793.7	17.51	46.328	
10,575.0	10,531.5	10,663.3	10,616.5	11.5	13.6	-104.27		-7.6	311.8	812.6	795.0	17.58	46.216	
10,600.0	10,551.3	10,695.1	10,637.5	11.5	13.7	-103.02		-31.4	311.9	813.9	796.2	17.66	46.084	
10,625.0	10,570.3	10,726.4	10,656.7	11.5	13.7	-101.86		-56.1	312.1	815.1	797.4	17.75	45.932	
10,650.0	10,588.4	10,757.2	10,673.9	11.6	13.7	-100.77		-81.7	312.3	816.3	798.4	17.84	45.757	
10,675.0	10,605.6	10,787.5	10,689.2	11.6	13.8	-99.75		-107.8	312.4	817.3	799.4	17.94	45.563	
10,700.0	10,621.8	10,817.2	10,702.5	11.6	13.8	-98.78		-134.4	312.6	818.3	800.3	18.05	45.347	
10,725.0	10,637.0	10,846.5	10,714.0	11.6	13.8	-97.86		-161.2	312.8	819.2	801.1	18.16	45.109	
10,750.0	10,651.2	10,875.2	10,723.7	11.7	13.8	-96.99		-188.2	312.9	820.0	801.8	18.28	44.849	
10,775.0	10,664.3	10,903.4	10,731.6	11.7	13.9	-96.15		-215.3	313.1	820.8	802.4	18.42	44.564	
10,800.0	10,676.2	10,931.1	10,737.8	11.7	13.9	-95.35		-242.3	313.3	821.5	802.9	18.56	44.256	
10,825.0	10,687.1	10,958.3	10,742.3	11.8	13.9	-94.59		-269.1	313.4	822.1	803.4	18.72	43.926	
10,850.0	10,696.7	10,985.0	10,745.3	11.8	13.9	-93.87		-295.7	313.6	822.6	803.8	18.88	43.574	
10,875.0	10,705.1	11,011.3	10,746.8	11.8	13.9	-93.17		-321.9	313.8	823.1	804.1	19.05	43.202	
10,900.0	10,712.2	11,036.3	10,747.0	11.9	13.9	-92.54		-347.0	313.9	823.5	804.3	19.23	42.817	
10,925.0	10,718.1	11,060.6	10,747.0	11.9	13.9	-92.02		-371.3	314.1	823.9	804.5	19.42	42.423	
10,950.0	10,722.8	11,085.2	10,747.0	11.9	13.9	-91.60		-395.8	314.2	824.3	804.6	19.62	42.022	
10,975.0	10,726.1	11,110.0	10,747.0	12.0	13.9	-91.30		-420.6	314.4	824.5	804.7	19.82	41.607	
11,000.0	10,728.2	11,134.9	10,747.0	12.0	13.9	-91.11		-445.5	314.6	824.7	804.7	20.03	41.180	
11,027.1	10,729.0	11,161.9	10,747.0	12.0	13.9	-91.04		-472.5	314.7	824.7	804.5	20.25	40.722	
11,100.0	10,729.0	11,234.9	10,747.0	12.2	14.0	-91.04		-545.5	315.2	824.7	803.8	20.90	39.464	
11,200.0	10,729.0	11,334.9	10,747.0	12.4	14.0	-91.04		-645.5	315.8	824.7	802.9	21.87	37.705	
11,300.0	10,729.0	11,434.9	10,747.0	12.6	14.1	-91.04		-745.5	316.5	824.7	801.8	22.94	35.958	
11,400.0	10,729.0	11,534.9	10,747.0	12.9	14.1	-91.04		-845.5	317.1	824.7	800.6	24.07	34.258	
11,500.0	10,729.0	11,634.9	10,747.0	13.3	14.2	-91.04		-945.5	317.7	824.7	799.4	25.28	32.626	
11,600.0	10,729.0	11,734.9	10,747.0	13.8	14.3	-91.04		-1,045.5	318.4	824.7	798.2	26.54	31.076	
11,700.0	10,729.0	11,834.9	10,747.0	14.3	14.5	-91.04		-1,145.5	319.0	824.7	796.9	27.85	29.614	
11,800.0	10,729.0	11,934.9	10,747.0	14.9	15.0	-91.04		-1,245.5	319.6	824.7	795.5	29.20	28.242	
11,900.0	10,729.0	12,034.9	10,747.0	15.5	15.6	-91.04		-1,345.5	320.3	824.7	794.1	30.59	26.959	
12,000.0	10,729.0	12,134.9	10,747.0	16.1	16.2	-91.04		-1,445.5	320.9	824.7	792.7	32.01	25.761	
12,100.0	10,729.0	12,234.9	10,747.0	16.8	16.9	-91.04		-1,545.5	321.5	824.7	791.2	33.46	24.645	
12,200.0	10,729.0	12,334.9	10,747.0	17.5	17.7	-91.04		-1,645.5	322.2	824.7	789.7	34.94	23.604	
12,300.0	10,729.0	12,434.9	10,747.0	18.2	18.4	-91.04		-1,745.5	322.8	824.7	788.2	36.43	22.635	
12,400.0	10,729.0	12,534.9	10,747.0	18.9	19.2	-91.04		-1,845.5	323.4	824.7	786.7	37.95	21.731	
12,500.0	10,729.0	12,634.9	10,747.0	19.6	20.0	-91.04		-1,945.5	324.1	824.6	785.2	39.48	20.887	
12,600.0	10,729.0	12,734.9	10,747.0	20.4	20.8	-91.04		-2,045.5	324.7	824.6	783.6	41.03	20.099	
12,700.0	10,729.0	12,834.9	10,747.0	21.1	21.6	-91.04		-2,145.4	325.3	824.6	782.0	42.59	19.362	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10266-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
12,800.0	10,729.0	12,934.9	10,747.0	21.9	22.4	-91.04	-2,245.4	326.0	824.6	780.5	44.16	18.673		
12,900.0	10,729.0	13,034.9	10,747.0	22.7	23.2	-91.04	-2,345.4	326.6	824.6	778.9	45.75	18.026		
13,000.0	10,729.0	13,134.9	10,747.0	23.4	24.0	-91.04	-2,445.4	327.2	824.6	777.3	47.34	17.419		
13,100.0	10,729.0	13,234.9	10,747.0	24.2	24.8	-91.04	-2,545.4	327.9	824.6	775.7	48.94	16.849		
13,200.0	10,729.0	13,334.9	10,747.0	25.0	25.6	-91.04	-2,645.4	328.5	824.6	774.1	50.55	16.312		
13,300.0	10,729.0	13,434.9	10,747.0	25.8	26.4	-91.04	-2,745.4	329.1	824.6	772.4	52.17	15.806		
13,400.0	10,729.0	13,534.9	10,747.0	26.6	27.2	-91.04	-2,845.4	329.8	824.6	770.8	53.79	15.329		
13,500.0	10,729.0	13,634.9	10,747.0	27.4	28.1	-91.04	-2,945.4	330.4	824.6	769.2	55.42	14.878		
13,600.0	10,729.0	13,734.9	10,747.0	28.2	28.9	-91.04	-3,045.4	331.0	824.6	767.5	57.06	14.452		
13,700.0	10,729.0	13,834.9	10,747.0	29.0	29.7	-91.04	-3,145.4	331.7	824.6	765.9	58.70	14.048		
13,800.0	10,729.0	13,934.9	10,747.0	29.8	30.5	-91.04	-3,245.4	332.3	824.6	764.2	60.34	13.665		
13,900.0	10,729.0	14,034.9	10,747.0	30.7	31.4	-91.04	-3,345.4	332.9	824.6	762.6	61.99	13.301		
14,000.0	10,729.0	14,134.9	10,747.0	31.5	32.2	-91.04	-3,445.4	333.6	824.6	760.9	63.64	12.956		
14,100.0	10,729.0	14,234.9	10,747.0	32.3	33.0	-91.04	-3,545.4	334.2	824.5	759.2	65.30	12.627		
14,200.0	10,729.0	14,334.9	10,747.0	33.1	33.9	-91.04	-3,645.4	334.8	824.5	757.6	66.96	12.314		
14,300.0	10,729.0	14,434.9	10,747.0	33.9	34.7	-91.04	-3,745.4	335.5	824.5	755.9	68.62	12.016		
14,400.0	10,729.0	14,534.9	10,747.0	34.8	35.6	-91.04	-3,845.4	336.1	824.5	754.2	70.29	11.731		
14,500.0	10,729.0	14,634.9	10,747.0	35.6	36.4	-91.04	-3,945.4	336.7	824.5	752.6	71.96	11.459		
14,600.0	10,729.0	14,734.9	10,747.0	36.4	37.2	-91.04	-4,045.4	337.4	824.5	750.9	73.63	11.199		
14,700.0	10,729.0	14,834.9	10,747.0	37.2	38.1	-91.04	-4,145.4	338.0	824.5	749.2	75.30	10.950		
14,800.0	10,729.0	14,934.9	10,747.0	38.1	38.9	-91.04	-4,245.4	338.6	824.5	747.5	76.97	10.711		
14,900.0	10,729.0	15,034.9	10,747.0	38.9	39.8	-91.04	-4,345.4	339.3	824.5	745.8	78.65	10.483		
15,000.0	10,729.0	15,134.9	10,747.0	39.7	40.6	-91.04	-4,445.4	339.9	824.5	744.2	80.33	10.264		
15,100.0	10,729.0	15,234.9	10,747.0	40.6	41.5	-91.04	-4,545.4	340.5	824.5	742.5	82.01	10.053		
15,200.0	10,729.0	15,334.9	10,747.0	41.4	42.3	-91.04	-4,645.4	341.2	824.5	740.8	83.69	9.851		
15,300.0	10,729.0	15,434.9	10,747.0	42.3	43.1	-91.04	-4,745.4	341.8	824.5	739.1	85.38	9.657		
15,400.0	10,729.0	15,534.9	10,747.0	43.1	44.0	-91.04	-4,845.4	342.4	824.5	737.4	87.06	9.470		
15,500.0	10,729.0	15,634.9	10,747.0	43.9	44.8	-91.04	-4,945.4	343.1	824.5	735.7	88.75	9.290		
15,600.0	10,729.0	15,734.9	10,747.0	44.8	45.7	-91.04	-5,045.4	343.7	824.5	734.0	90.44	9.116		
15,700.0	10,729.0	15,834.9	10,747.0	45.6	46.5	-91.04	-5,145.4	344.3	824.4	732.3	92.13	8.949		
15,800.0	10,729.0	15,934.9	10,747.0	46.5	47.4	-91.04	-5,245.4	345.0	824.4	730.6	93.82	8.788		
15,900.0	10,729.0	16,034.9	10,747.0	47.3	48.2	-91.04	-5,345.4	345.6	824.4	728.9	95.51	8.632		
16,000.0	10,729.0	16,134.9	10,747.0	48.1	49.1	-91.04	-5,445.4	346.2	824.4	727.2	97.20	8.481		
16,100.0	10,729.0	16,234.9	10,747.0	49.0	49.9	-91.04	-5,545.4	346.9	824.4	725.5	98.90	8.336		
16,200.0	10,729.0	16,334.9	10,747.0	49.8	50.8	-91.04	-5,645.4	347.5	824.4	723.8	100.59	8.196		
16,300.0	10,729.0	16,434.9	10,747.0	50.7	51.6	-91.04	-5,745.4	348.1	824.4	722.1	102.29	8.060		
16,400.0	10,729.0	16,534.9	10,747.0	51.5	52.5	-91.04	-5,845.4	348.8	824.4	720.4	103.98	7.928		
16,500.0	10,729.0	16,634.9	10,747.0	52.4	53.3	-91.04	-5,945.4	349.4	824.4	718.7	105.68	7.801		
16,600.0	10,729.0	16,734.9	10,747.0	53.2	54.2	-91.04	-6,045.4	350.0	824.4	717.0	107.38	7.677		
16,700.0	10,729.0	16,834.9	10,747.0	54.1	55.0	-91.04	-6,145.4	350.7	824.4	715.3	109.08	7.558		
16,800.0	10,729.0	16,934.9	10,747.0	54.9	55.9	-91.04	-6,245.4	351.3	824.4	713.6	110.78	7.442		
16,900.0	10,729.0	17,034.9	10,747.0	55.8	56.7	-91.04	-6,345.4	351.9	824.4	711.9	112.48	7.329		
17,000.0	10,729.0	17,134.9	10,747.0	56.6	57.6	-91.04	-6,445.4	352.6	824.4	710.2	114.18	7.220		
17,100.0	10,729.0	17,234.9	10,747.0	57.4	58.4	-91.04	-6,545.4	353.2	824.4	708.5	115.88	7.114		
17,200.0	10,729.0	17,334.9	10,747.0	58.3	59.3	-91.04	-6,645.4	353.8	824.3	706.8	117.58	7.011		
17,300.0	10,729.0	17,434.9	10,747.0	59.1	60.2	-91.04	-6,745.4	354.5	824.3	705.1	119.29	6.911		
17,400.0	10,729.0	17,534.9	10,747.0	60.0	61.0	-91.04	-6,845.4	355.1	824.3	703.3	120.99	6.813		
17,500.0	10,729.0	17,634.9	10,747.0	60.8	61.9	-91.04	-6,945.4	355.7	824.3	701.6	122.69	6.719		
17,600.0	10,729.0	17,734.9	10,747.0	61.7	62.7	-91.04	-7,045.3	356.4	824.3	699.9	124.40	6.626		
17,700.0	10,729.0	17,834.9	10,747.0	62.5	63.6	-91.04	-7,145.3	357.0	824.3	698.2	126.10	6.537		
17,800.0	10,729.0	17,934.9	10,747.0	63.4	64.4	-91.04	-7,245.3	357.6	824.3	696.5	127.81	6.450		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10266-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		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	
17,900.0	10,729.0	18,034.9	10,747.0	64.2	65.3	-91.04	-7,345.3	358.3	824.3	694.8	129.51	6.365	
18,000.0	10,729.0	18,134.9	10,747.0	65.1	66.1	-91.04	-7,445.3	358.9	824.3	693.1	131.22	6.282	
18,100.0	10,729.0	18,234.9	10,747.0	66.0	67.0	-91.04	-7,545.3	359.5	824.3	691.4	132.93	6.201	
18,200.0	10,729.0	18,334.9	10,747.0	66.8	67.8	-91.04	-7,645.3	360.2	824.3	689.7	134.63	6.122	
18,300.0	10,729.0	18,434.9	10,747.0	67.7	68.7	-91.04	-7,745.3	360.8	824.3	687.9	136.34	6.046	
18,400.0	10,729.0	18,534.9	10,747.0	68.5	69.6	-91.04	-7,845.3	361.4	824.3	686.2	138.05	5.971	
18,500.0	10,729.0	18,634.9	10,747.0	69.4	70.4	-91.04	-7,945.3	362.1	824.3	684.5	139.76	5.898	
18,600.0	10,729.0	18,734.9	10,747.0	70.2	71.3	-91.04	-8,045.3	362.7	824.3	682.8	141.47	5.827	
18,700.0	10,729.0	18,834.9	10,747.0	71.1	72.1	-91.04	-8,145.3	363.3	824.3	681.1	143.17	5.757	
18,800.0	10,729.0	18,934.9	10,747.0	71.9	73.0	-91.04	-8,245.3	364.0	824.2	679.4	144.88	5.689	
18,900.0	10,729.0	19,034.9	10,747.0	72.8	73.8	-91.04	-8,345.3	364.6	824.2	677.6	146.59	5.623	
19,000.0	10,729.0	19,134.9	10,747.0	73.6	74.7	-91.04	-8,445.3	365.2	824.2	675.9	148.30	5.558	
19,100.0	10,729.0	19,234.9	10,747.0	74.5	75.6	-91.04	-8,545.3	365.9	824.2	674.2	150.01	5.494	
19,200.0	10,729.0	19,334.9	10,747.0	75.3	76.4	-91.04	-8,645.3	366.5	824.2	672.5	151.72	5.432	
19,300.0	10,729.0	19,434.9	10,747.0	76.2	77.3	-91.04	-8,745.3	367.2	824.2	670.8	153.43	5.372	
19,400.0	10,729.0	19,534.9	10,747.0	77.0	78.1	-91.04	-8,845.3	367.8	824.2	669.1	155.14	5.313	
19,500.0	10,729.0	19,634.9	10,747.0	77.9	79.0	-91.04	-8,945.3	368.4	824.2	667.3	156.86	5.255	
19,600.0	10,729.0	19,734.9	10,747.0	78.7	79.8	-91.04	-9,045.3	369.1	824.2	665.6	158.57	5.198	
19,700.0	10,729.0	19,834.9	10,747.0	79.6	80.7	-91.04	-9,145.3	369.7	824.2	663.9	160.28	5.142	
19,800.0	10,729.0	19,934.9	10,747.0	80.5	81.5	-91.04	-9,245.3	370.3	824.2	662.2	161.99	5.088	
19,900.0	10,729.0	20,034.9	10,747.0	81.3	82.4	-91.04	-9,345.3	371.0	824.2	660.5	163.70	5.035	
20,000.0	10,729.0	20,134.9	10,747.0	82.2	83.3	-91.04	-9,445.3	371.6	824.2	658.8	165.41	4.982	
20,100.0	10,729.0	20,234.9	10,747.0	83.0	84.1	-91.04	-9,545.3	372.2	824.2	657.0	167.13	4.931	
20,200.0	10,729.0	20,334.9	10,747.0	83.9	85.0	-91.04	-9,645.3	372.9	824.2	655.3	168.84	4.881	
20,300.0	10,729.0	20,434.9	10,747.0	84.7	85.8	-91.04	-9,745.3	373.5	824.2	653.6	170.55	4.832	
20,400.0	10,729.0	20,534.9	10,747.0	85.6	86.7	-91.04	-9,845.3	374.1	824.1	651.9	172.26	4.784	
20,500.0	10,729.0	20,634.9	10,747.0	86.4	87.6	-91.04	-9,945.3	374.8	824.1	650.2	173.98	4.737	
20,600.0	10,729.0	20,734.9	10,747.0	87.3	88.4	-91.04	-10,045.3	375.4	824.1	648.4	175.69	4.691	
20,700.0	10,729.0	20,834.9	10,747.0	88.1	89.3	-91.04	-10,145.3	376.0	824.1	646.7	177.40	4.645	
20,768.8	10,729.0	20,903.6	10,747.0	88.6	89.9	-91.04	-10,214.1	376.5	824.1	645.7	178.42	4.619	
20,770.9	10,729.0	20,905.7	10,747.0	88.6	89.9	-91.04	-10,216.1	376.5	824.1	645.7	178.45	4.618 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)			
0.0	0.0	1.0	1.0	3.0	3.0	89.52	1.7	200.1	200.1				
100.0	100.0	101.0	101.0	3.0	3.0	89.52	1.7	200.1	200.1	194.1	6.00	33.350	
200.0	200.0	201.0	201.0	3.0	3.0	89.52	1.7	200.1	200.1	194.1	6.00	33.334	
300.0	300.0	301.0	301.0	3.0	3.0	89.52	1.7	200.1	200.1	194.1	6.01	33.300	
400.0	400.0	401.0	401.0	3.0	3.0	89.52	1.7	200.1	200.1	194.1	6.02	33.248	
500.0	500.0	501.0	501.0	3.1	3.1	89.52	1.7	200.1	200.1	194.1	6.03	33.179	
600.0	600.0	601.0	601.0	3.1	3.1	89.52	1.7	200.1	200.1	194.1	6.05	33.093	
700.0	700.0	701.0	701.0	3.1	3.1	89.52	1.7	200.1	200.1	194.0	6.07	32.989	
800.0	800.0	801.0	801.0	3.2	3.2	89.52	1.7	200.1	200.1	194.0	6.09	32.870	
900.0	900.0	901.0	901.0	3.2	3.2	89.52	1.7	200.1	200.1	194.0	6.11	32.734	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	3.2	89.52	1.7	200.1	200.1	194.0	6.14	32.584	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	3.3	89.52	1.7	200.1	200.1	193.9	6.17	32.419	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.4	89.52	1.7	200.1	200.1	193.9	6.21	32.240	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	3.4	89.52	1.7	200.1	200.1	193.9	6.24	32.047	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	3.5	89.52	1.7	200.1	200.1	193.8	6.28	31.843	
1,500.0	1,500.0	1,501.0	1,501.0	3.5	3.5	89.52	1.7	200.1	200.1	193.8	6.33	31.627	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	3.6	89.52	1.7	200.1	200.1	193.7	6.37	31.400	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	89.52	1.7	200.1	200.1	193.7	6.42	31.164	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	3.8	89.52	1.7	200.1	200.1	193.6	6.47	30.918	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	89.52	1.7	200.1	200.1	193.6	6.53	30.664	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	3.9	89.52	1.7	200.1	200.1	193.5	6.58	30.402	
2,100.0	2,100.0	2,101.0	2,101.0	4.0	4.0	89.52	1.7	200.1	200.1	193.5	6.64	30.133	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	4.1	89.52	1.7	200.1	200.1	193.4	6.70	29.859	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	4.2	89.52	1.7	200.1	200.1	193.3	6.77	29.579	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	4.3	89.52	1.7	200.1	200.1	193.3	6.83	29.295	
2,500.0	2,500.0	2,501.1	2,501.1	4.4	4.4	89.52	1.7	200.1	200.1	193.2	6.90	29.007	
2,600.0	2,600.0	2,607.8	2,607.7	4.5	4.5	89.27	2.5	198.3	198.4	191.4	6.97	28.462	
2,700.0	2,700.0	2,714.2	2,714.0	4.6	4.5	88.51	5.0	192.8	193.3	186.3	7.04	27.445	
2,800.0	2,800.0	2,816.0	2,815.4	4.7	4.6	87.33	8.6	185.0	185.7	178.6	7.12	26.077	
2,900.0	2,900.0	2,915.6	2,914.6	4.8	4.7	86.05	12.2	177.1	178.0	170.8	7.20	24.712	
3,000.0	3,000.0	3,015.2	3,013.9	4.9	4.7	84.65	15.8	169.2	170.4	163.1	7.29	23.376	
3,100.0	3,100.0	3,114.8	3,113.1	5.0	4.8	83.12	19.5	161.3	162.9	155.5	7.38	22.072	
3,200.0	3,200.0	3,214.4	3,212.4	5.1	4.9	81.44	23.1	153.4	155.5	148.1	7.48	20.800	
3,300.0	3,300.0	3,314.1	3,311.6	5.2	4.9	79.60	26.7	145.5	148.3	140.7	7.58	19.561	
3,400.0	3,400.0	3,413.7	3,410.8	5.3	5.0	77.58	30.3	137.6	141.2	133.5	7.69	18.356	
3,500.0	3,500.0	3,513.3	3,510.1	5.4	5.1	75.34	33.9	129.7	134.4	126.6	7.82	17.185	
3,600.0	3,600.0	3,612.9	3,609.3	5.5	5.2	72.87	37.5	121.8	127.7	119.8	7.96	16.049	
3,700.0	3,700.0	3,712.5	3,708.6	5.7	5.3	70.14	41.2	113.9	121.4	113.2	8.12	14.950	
3,800.0	3,800.0	3,812.2	3,807.8	5.8	5.4	67.11	44.8	106.0	115.3	107.0	8.30	13.891	
3,900.0	3,900.0	3,911.8	3,907.0	5.9	5.4	63.75	48.4	98.1	109.6	101.1	8.51	12.874	
4,000.0	4,000.0	4,011.4	4,006.3	6.0	5.5	60.04	52.0	90.2	104.3	95.5	8.76	11.906	
4,100.0	4,100.0	4,111.0	4,105.5	6.1	5.6	55.96	55.6	82.3	99.5	90.4	9.05	10.994	
4,200.0	4,200.0	4,210.6	4,204.8	6.2	5.7	51.49	59.2	74.5	95.2	85.8	9.38	10.147	
4,300.0	4,300.0	4,310.3	4,304.0	6.3	5.8	46.64	62.9	66.6	91.6	81.8	9.77	9.378	
4,400.0	4,400.0	4,409.9	4,403.2	6.5	5.9	41.43	66.5	58.7	88.7	78.5	10.20	8.697	
4,500.0	4,500.0	4,509.5	4,502.5	6.6	6.0	35.92	70.1	50.8	86.6	75.9	10.67	8.115	
4,600.0	4,600.0	4,609.1	4,601.7	6.7	6.1	30.19	73.7	42.9	85.3	74.1	11.16	7.641	
4,695.4	4,695.4	4,704.2	4,696.4	6.8	6.2	24.61	77.2	35.3	84.9	73.2	11.64	7.293 CC	
4,700.0	4,700.0	4,708.7	4,701.0	6.8	6.2	24.35	77.3	35.0	84.9	73.2	11.66	7.279	
4,800.0	4,800.0	4,808.4	4,800.2	6.9	6.3	18.51	80.9	27.1	85.4	73.2	12.15	7.026 ES	
4,900.0	4,900.0	4,908.0	4,899.4	7.0	6.4	12.79	84.6	19.2	86.7	74.1	12.61	6.879	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR		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	
5,000.0	5,000.0	5,007.6	4,998.7	7.2	6.5	7.31	88.2	11.3	88.9	75.9	13.02	6.828		
5,100.0	5,100.0	5,107.2	5,097.9	7.3	6.6	2.13	91.8	3.4	91.9	78.5	13.39	6.861		
5,200.0	5,200.0	5,206.8	5,197.2	7.4	6.7	-2.69	95.4	-4.5	95.6	81.9	13.72	6.968		
5,300.0	5,300.0	5,306.5	5,296.4	7.5	6.8	-7.12	99.0	-12.4	99.9	85.9	14.00	7.136		
5,400.0	5,400.0	5,406.1	5,395.6	7.6	6.9	-11.17	102.6	-20.3	104.8	90.5	14.24	7.355		
5,500.0	5,500.0	5,505.7	5,494.9	7.8	7.0	-14.85	106.2	-28.2	110.1	95.6	14.46	7.615		
5,600.0	5,600.0	5,605.4	5,594.2	7.8	7.1	72.55	109.9	-36.1	115.3	100.7	14.63	7.883		
5,700.0	5,699.8	5,705.3	5,693.8	7.9	7.2	71.76	113.5	-44.0	119.6	104.8	14.78	8.091		
5,788.0	5,787.5	5,793.3	5,781.4	7.9	7.3	72.40	116.7	-50.9	122.5	107.5	14.92	8.206		
5,800.0	5,799.5	5,805.2	5,793.3	7.9	7.3	72.57	117.1	-51.9	122.8	107.9	14.94	8.218		
5,900.0	5,898.9	5,905.2	5,892.8	8.0	7.4	73.99	120.7	-59.8	125.7	110.6	15.10	8.322		
6,000.0	5,998.4	6,005.1	5,992.4	8.0	7.6	75.34	124.4	-67.7	128.6	113.4	15.25	8.434		
6,100.0	6,097.9	6,105.0	6,091.9	8.0	7.7	76.63	128.0	-75.6	131.6	116.2	15.39	8.553		
6,200.0	6,197.4	6,205.3	6,191.8	8.1	7.8	77.89	131.6	-83.5	134.7	119.1	15.52	8.675		
6,300.0	6,296.9	6,306.6	6,292.9	8.1	7.9	79.56	134.7	-90.3	137.0	121.4	15.64	8.762		
6,400.0	6,396.4	6,407.8	6,393.9	8.2	8.0	81.79	137.1	-95.4	138.5	122.8	15.71	8.812		
6,500.0	6,495.9	6,508.9	6,494.9	8.2	8.1	84.59	138.7	-98.9	139.3	123.5	15.75	8.846		
6,600.0	6,595.4	6,609.7	6,595.7	8.3	8.2	88.00	139.5	-100.8	139.6	123.9	15.72	8.881		
6,700.0	6,694.9	6,709.9	6,695.9	8.4	8.3	91.98	139.7	-101.1	139.8	124.1	15.64	8.934		
6,800.0	6,794.4	6,809.4	6,795.4	8.4	8.4	96.05	139.7	-101.1	140.5	124.9	15.53	9.044		
6,900.0	6,893.9	6,908.9	6,894.9	8.5	8.5	100.07	139.7	-101.1	141.9	126.5	15.38	9.223		
7,000.0	6,993.4	7,008.4	6,994.4	8.5	8.6	103.98	139.7	-101.1	144.0	128.8	15.21	9.467		
7,100.0	7,092.9	7,107.9	7,093.9	8.6	8.7	107.77	139.7	-101.1	146.7	131.7	15.02	9.772		
7,200.0	7,192.4	7,207.4	7,193.4	8.7	8.9	111.41	139.7	-101.1	150.1	135.3	14.82	10.131		
7,300.0	7,291.9	7,306.9	7,292.9	8.7	9.0	114.87	139.7	-101.1	154.1	139.5	14.62	10.540		
7,400.0	7,391.4	7,406.4	7,392.4	8.8	9.1	118.15	139.7	-101.1	158.6	144.2	14.43	10.990		
7,500.0	7,490.9	7,505.9	7,491.9	8.9	9.2	121.24	139.7	-101.1	163.6	149.3	14.26	11.475		
7,600.0	7,590.4	7,605.4	7,591.4	8.9	9.3	124.14	139.7	-101.1	169.0	154.9	14.10	11.987		
7,700.0	7,689.9	7,704.9	7,690.9	9.0	9.4	126.85	139.7	-101.1	174.9	160.9	13.97	12.519		
7,800.0	7,789.4	7,804.3	7,790.4	9.1	9.5	129.38	139.7	-101.1	181.1	167.2	13.86	13.066		
7,900.0	7,888.9	7,903.8	7,889.9	9.2	9.6	131.75	139.7	-101.1	187.6	173.9	13.78	13.620		
8,000.0	7,988.3	8,003.3	7,989.3	9.3	9.7	133.95	139.7	-101.1	194.5	180.8	13.72	14.177		
8,100.0	8,087.8	8,102.8	8,088.8	9.3	9.8	136.00	139.7	-101.1	201.6	187.9	13.68	14.732		
8,200.0	8,187.3	8,202.3	8,188.3	9.4	9.9	137.90	139.7	-101.1	208.9	195.3	13.67	15.282		
8,300.0	8,286.8	8,301.8	8,287.8	9.5	10.1	139.68	139.7	-101.1	216.5	202.8	13.68	15.824		
8,400.0	8,386.3	8,401.3	8,387.3	9.6	10.2	141.34	139.7	-101.1	224.3	210.6	13.71	16.356		
8,500.0	8,485.8	8,500.8	8,486.8	9.7	10.3	142.88	139.7	-101.1	232.2	218.5	13.76	16.875		
8,600.0	8,585.3	8,600.3	8,586.3	9.8	10.4	144.32	139.7	-101.1	240.3	226.5	13.82	17.382		
8,700.0	8,684.8	8,699.8	8,685.8	9.8	10.5	145.67	139.7	-101.1	248.5	234.6	13.90	17.876		
8,800.0	8,784.3	8,799.3	8,785.3	9.9	10.6	146.93	139.7	-101.1	256.9	242.9	14.00	18.355		
8,900.0	8,883.8	8,898.8	8,884.8	10.0	10.7	148.11	139.7	-101.1	265.4	251.3	14.10	18.821		
9,000.0	8,983.3	8,998.3	8,984.3	10.1	10.9	149.22	139.7	-101.1	274.0	259.8	14.22	19.272		
9,100.0	9,082.8	9,097.8	9,083.8	10.2	11.0	150.26	139.7	-101.1	282.6	268.3	14.34	19.711		
9,200.0	9,182.3	9,197.3	9,183.3	10.3	11.1	151.24	139.7	-101.1	291.4	276.9	14.47	20.136		
9,300.0	9,281.8	9,296.8	9,282.8	10.4	11.2	152.16	139.7	-101.1	300.3	285.6	14.61	20.549		
9,400.0	9,381.3	9,396.3	9,382.3	10.5	11.3	153.03	139.7	-101.1	309.2	294.4	14.76	20.949		
9,500.0	9,480.8	9,495.8	9,481.8	10.6	11.4	153.84	139.7	-101.1	318.2	303.3	14.91	21.338		
9,600.0	9,580.3	9,595.3	9,581.8	10.7	11.5	154.62	139.7	-101.1	327.2	312.1	15.07	21.715		
9,700.0	9,679.8	9,694.8	9,680.8	10.8	11.7	155.35	139.7	-101.1	336.3	321.1	15.23	22.082		
9,800.0	9,779.3	9,794.2	9,780.3	10.9	11.8	156.04	139.7	-101.1	345.5	330.1	15.40	22.439		
9,900.0	9,878.8	9,893.7	9,879.8	11.0	11.9	156.70	139.7	-101.1	354.7	339.1	15.57	22.786		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,000.0	9,978.2	9,993.2	9,979.2	11.1	12.0	157.33	139.7	-101.1	363.9	348.2	15.74	23.124		
10,100.0	10,077.7	10,092.7	10,078.7	11.2	12.1	157.92	139.7	-101.1	373.2	357.3	15.91	23.453		
10,200.0	10,177.2	10,207.3	10,193.2	11.3	12.2	158.98	136.8	-101.1	381.8	365.7	16.06	23.777		
10,276.7	10,253.6	10,309.0	10,292.4	11.4	13.1	162.57	114.9	-101.0	383.5	367.2	16.36	23.448		
10,295.0	10,271.7	10,331.7	10,313.7	11.4	13.1	-175.50	107.2	-100.9	383.5	367.1	16.45	23.311		
10,300.0	10,276.7	10,337.9	10,319.4	11.4	13.1	-170.15	104.9	-100.9	383.5	367.0	16.48	23.270		
10,325.0	10,301.5	10,368.1	10,347.0	11.4	13.2	-149.21	92.7	-100.8	383.6	367.0	16.63	23.060		
10,350.0	10,326.2	10,397.5	10,373.2	11.4	13.2	-135.98	79.1	-100.8	383.8	367.0	16.80	22.846		
10,375.0	10,350.7	10,426.2	10,397.8	11.4	13.2	-127.19	64.4	-100.7	384.2	367.2	16.97	22.639		
10,400.0	10,374.9	10,454.2	10,420.9	11.4	13.2	-120.85	48.6	-100.6	384.7	367.5	17.14	22.445		
10,425.0	10,398.8	10,481.5	10,442.6	11.4	13.3	-115.95	32.0	-100.5	385.3	368.0	17.30	22.268		
10,450.0	10,422.2	10,508.2	10,462.8	11.4	13.3	-111.95	14.5	-100.3	386.2	368.7	17.47	22.107		
10,475.0	10,445.3	10,534.3	10,481.5	11.4	13.3	-108.54	-3.6	-100.2	387.2	369.6	17.63	21.960		
10,500.0	10,467.8	10,559.8	10,498.9	11.5	13.4	-105.54	-22.3	-100.1	388.4	370.6	17.80	21.823		
10,525.0	10,489.7	10,584.8	10,514.9	11.5	13.4	-102.85	-41.5	-100.0	389.7	371.8	17.97	21.692		
10,550.0	10,510.9	10,609.3	10,529.6	11.5	13.4	-100.39	-61.0	-99.9	391.3	373.1	18.15	21.561		
10,575.0	10,531.5	10,633.3	10,543.0	11.5	13.5	-98.12	-81.0	-99.7	392.9	374.6	18.34	21.426		
10,600.0	10,551.3	10,656.9	10,555.2	11.5	13.5	-95.99	-101.1	-99.6	394.7	376.2	18.55	21.285		
10,625.0	10,570.3	10,680.1	10,566.2	11.5	13.5	-94.00	-121.5	-99.5	396.7	377.9	18.77	21.133		
10,650.0	10,588.4	10,702.9	10,576.0	11.6	13.6	-92.12	-142.1	-99.4	398.7	379.7	19.01	20.970		
10,675.0	10,605.6	10,725.0	10,584.6	11.6	13.6	-90.35	-162.5	-99.2	400.9	381.6	19.28	20.797		
10,700.0	10,621.8	10,747.4	10,592.3	11.6	13.6	-88.64	-183.5	-99.1	403.1	383.6	19.56	20.606		
10,725.0	10,637.0	10,769.1	10,598.9	11.6	13.7	-87.03	-204.2	-99.0	405.4	385.6	19.87	20.408		
10,750.0	10,651.2	10,790.6	10,604.5	11.7	13.7	-85.50	-225.0	-98.8	407.8	387.6	20.18	20.202		
10,775.0	10,664.3	10,811.8	10,609.0	11.7	13.7	-84.04	-245.7	-98.7	410.1	389.6	20.52	19.990		
10,800.0	10,676.2	10,832.8	10,612.6	11.7	13.7	-82.66	-266.3	-98.6	412.5	391.7	20.86	19.774		
10,825.0	10,687.1	10,853.5	10,615.2	11.8	13.8	-81.35	-286.9	-98.4	414.9	393.7	21.21	19.558		
10,850.0	10,696.7	10,875.0	10,617.1	11.8	13.8	-80.07	-308.3	-98.3	417.3	395.7	21.58	19.334		
10,875.0	10,705.1	10,894.3	10,617.9	11.8	13.8	-78.93	-327.5	-98.2	419.6	397.7	21.93	19.133		
10,900.0	10,712.2	10,916.3	10,618.0	11.9	13.8	-77.77	-349.6	-98.0	421.8	399.5	22.31	18.909		
10,925.0	10,718.1	10,940.6	10,618.0	11.9	13.9	-76.73	-373.9	-97.9	423.8	401.1	22.68	18.687		
10,950.0	10,722.8	10,965.1	10,618.0	11.9	13.9	-75.91	-398.4	-97.7	425.4	402.4	23.00	18.491		
10,975.0	10,726.1	10,989.9	10,618.0	12.0	13.9	-75.32	-423.2	-97.6	426.5	403.3	23.29	18.317		
11,000.0	10,728.2	11,014.8	10,618.0	12.0	13.9	-74.95	-448.1	-97.4	427.3	403.7	23.53	18.159		
11,027.1	10,729.0	11,041.9	10,618.0	12.0	14.0	-74.81	-475.1	-97.2	427.5	403.8	23.75	18.006		
11,100.0	10,729.0	11,114.8	10,618.0	12.2	14.0	-74.81	-548.1	-96.8	427.5	403.3	24.28	17.610		
11,200.0	10,729.0	11,214.8	10,618.0	12.4	14.2	-74.81	-648.1	-96.1	427.5	402.4	25.10	17.035		
11,300.0	10,729.0	11,314.8	10,618.0	12.6	14.3	-74.81	-748.1	-95.5	427.5	401.5	26.00	16.441		
11,400.0	10,729.0	11,414.8	10,618.0	12.9	14.5	-74.81	-848.1	-94.9	427.5	400.5	26.99	15.841		
11,500.0	10,729.0	11,514.8	10,618.0	13.3	14.7	-74.81	-948.1	-94.2	427.5	399.5	28.04	15.246		
11,600.0	10,729.0	11,614.8	10,618.0	13.8	15.0	-74.81	-1,048.1	-93.6	427.5	398.4	29.16	14.662		
11,700.0	10,729.0	11,714.8	10,618.0	14.3	15.3	-74.81	-1,148.1	-93.0	427.5	397.2	30.33	14.096		
11,800.0	10,729.0	11,814.8	10,618.0	14.9	15.8	-74.81	-1,248.1	-92.3	427.5	395.9	31.55	13.550		
11,900.0	10,729.0	11,914.8	10,618.0	15.5	16.3	-74.81	-1,348.1	-91.7	427.5	394.7	32.81	13.028		
12,000.0	10,729.0	12,014.8	10,618.0	16.1	16.9	-74.81	-1,448.1	-91.1	427.5	393.4	34.12	12.530		
12,100.0	10,729.0	12,114.8	10,618.0	16.8	17.5	-74.81	-1,548.1	-90.4	427.5	392.0	35.46	12.057		
12,200.0	10,729.0	12,214.8	10,618.0	17.5	18.2	-74.81	-1,648.1	-89.8	427.5	390.7	36.82	11.609		
12,300.0	10,729.0	12,314.8	10,618.0	18.2	18.9	-74.81	-1,748.1	-89.2	427.5	389.2	38.22	11.184		
12,400.0	10,729.0	12,414.8	10,618.0	18.9	19.6	-74.81	-1,848.1	-88.5	427.5	387.8	39.64	10.783		
12,500.0	10,729.0	12,514.8	10,618.0	19.6	20.4	-74.81	-1,948.1	-87.9	427.5	386.4	41.09	10.404		
12,600.0	10,729.0	12,614.8	10,618.0	20.4	21.1	-74.81	-2,048.1	-87.3	427.4	384.9	42.55	10.046		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR		Offset		Semi Major Axis		Highside Toolface (°)	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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,700.0	10,729.0	12,714.8	10,618.0	21.1	21.9	-74.81	-2,148.1	-86.6	427.4	383.4	44.03	9.708		
12,800.0	10,729.0	12,814.8	10,618.0	21.9	22.7	-74.81	-2,248.1	-86.0	427.4	381.9	45.53	9.388		
12,900.0	10,729.0	12,914.8	10,618.0	22.7	23.4	-74.81	-2,348.1	-85.4	427.4	380.4	47.04	9.086		
13,000.0	10,729.0	13,014.8	10,618.0	23.4	24.2	-74.81	-2,448.1	-84.7	427.4	378.9	48.57	8.801		
13,100.0	10,729.0	13,114.8	10,618.0	24.2	25.0	-74.81	-2,548.1	-84.1	427.4	377.3	50.10	8.531		
13,200.0	10,729.0	13,214.8	10,618.0	25.0	25.8	-74.81	-2,648.0	-83.5	427.4	375.8	51.65	8.275		
13,300.0	10,729.0	13,314.8	10,618.0	25.8	26.6	-74.81	-2,748.0	-82.8	427.4	374.2	53.21	8.032		
13,400.0	10,729.0	13,414.8	10,618.0	26.6	27.4	-74.81	-2,848.0	-82.2	427.4	372.6	54.78	7.802		
13,500.0	10,729.0	13,514.8	10,618.0	27.4	28.3	-74.81	-2,948.0	-81.6	427.4	371.0	56.36	7.584		
13,600.0	10,729.0	13,614.8	10,618.0	28.2	29.1	-74.81	-3,048.0	-80.9	427.4	369.4	57.94	7.376		
13,700.0	10,729.0	13,714.8	10,618.0	29.0	29.9	-74.81	-3,148.0	-80.3	427.4	367.8	59.53	7.179		
13,800.0	10,729.0	13,814.8	10,618.0	29.8	30.7	-74.81	-3,248.0	-79.7	427.4	366.2	61.13	6.991		
13,900.0	10,729.0	13,914.8	10,618.0	30.7	31.5	-74.81	-3,348.0	-79.0	427.4	364.6	62.73	6.812		
14,000.0	10,729.0	14,014.8	10,618.0	31.5	32.4	-74.81	-3,448.0	-78.4	427.4	363.0	64.34	6.642		
14,100.0	10,729.0	14,114.8	10,618.0	32.3	33.2	-74.81	-3,548.0	-77.8	427.4	361.4	65.96	6.479		
14,200.0	10,729.0	14,214.8	10,618.0	33.1	34.0	-74.81	-3,648.0	-77.1	427.3	359.8	67.58	6.324		
14,300.0	10,729.0	14,314.8	10,618.0	33.9	34.9	-74.81	-3,748.0	-76.5	427.3	358.1	69.20	6.175		
14,400.0	10,729.0	14,414.8	10,618.0	34.8	35.7	-74.81	-3,848.0	-75.9	427.3	356.5	70.83	6.033		
14,500.0	10,729.0	14,514.8	10,618.0	35.6	36.5	-74.81	-3,948.0	-75.2	427.3	354.9	72.46	5.897		
14,600.0	10,729.0	14,614.8	10,618.0	36.4	37.4	-74.81	-4,048.0	-74.6	427.3	353.2	74.10	5.767		
14,700.0	10,729.0	14,714.8	10,618.0	37.2	38.2	-74.81	-4,148.0	-74.0	427.3	351.6	75.74	5.642		
14,800.0	10,729.0	14,814.8	10,618.0	38.1	39.0	-74.81	-4,248.0	-73.3	427.3	349.9	77.38	5.522		
14,900.0	10,729.0	14,914.8	10,618.0	38.9	39.9	-74.81	-4,348.0	-72.7	427.3	348.3	79.03	5.407		
15,000.0	10,729.0	15,014.8	10,618.0	39.7	40.7	-74.81	-4,448.0	-72.1	427.3	346.6	80.67	5.297		
15,100.0	10,729.0	15,114.8	10,618.0	40.6	41.6	-74.80	-4,548.0	-71.4	427.3	345.0	82.32	5.190		
15,200.0	10,729.0	15,214.8	10,618.0	41.4	42.4	-74.80	-4,648.0	-70.8	427.3	343.3	83.98	5.088		
15,300.0	10,729.0	15,314.8	10,618.0	42.3	43.2	-74.80	-4,748.0	-70.2	427.3	341.6	85.63	4.990		
15,400.0	10,729.0	15,414.8	10,618.0	43.1	44.1	-74.80	-4,848.0	-69.5	427.3	340.0	87.29	4.895		
15,500.0	10,729.0	15,514.8	10,618.0	43.9	44.9	-74.80	-4,948.0	-68.9	427.3	338.3	88.95	4.803		
15,600.0	10,729.0	15,614.8	10,618.0	44.8	45.8	-74.80	-5,048.0	-68.3	427.3	336.6	90.61	4.715		
15,700.0	10,729.0	15,714.8	10,618.0	45.6	46.6	-74.80	-5,148.0	-67.6	427.3	335.0	92.28	4.630		
15,800.0	10,729.0	15,814.8	10,618.0	46.5	47.5	-74.80	-5,248.0	-67.0	427.3	333.3	93.94	4.548		
15,900.0	10,729.0	15,914.8	10,618.0	47.3	48.3	-74.80	-5,348.0	-66.4	427.2	331.6	95.61	4.469		
16,000.0	10,729.0	16,014.8	10,618.0	48.1	49.2	-74.80	-5,448.0	-65.7	427.2	330.0	97.28	4.392		
16,100.0	10,729.0	16,114.8	10,618.0	49.0	50.0	-74.80	-5,548.0	-65.1	427.2	328.3	98.95	4.318		
16,200.0	10,729.0	16,214.8	10,618.0	49.8	50.9	-74.80	-5,648.0	-64.5	427.2	326.6	100.62	4.246		
16,300.0	10,729.0	16,314.8	10,618.0	50.7	51.7	-74.80	-5,748.0	-63.8	427.2	324.9	102.29	4.176		
16,400.0	10,729.0	16,414.8	10,618.0	51.5	52.6	-74.80	-5,848.0	-63.2	427.2	323.2	103.97	4.109		
16,500.0	10,729.0	16,514.8	10,618.0	52.4	53.4	-74.80	-5,948.0	-62.6	427.2	321.6	105.64	4.044		
16,600.0	10,729.0	16,614.8	10,618.0	53.2	54.3	-74.80	-6,048.0	-61.9	427.2	319.9	107.32	3.981		
16,700.0	10,729.0	16,714.8	10,618.0	54.1	55.1	-74.80	-6,148.0	-61.3	427.2	318.2	109.00	3.919		
16,800.0	10,729.0	16,814.8	10,618.0	54.9	56.0	-74.80	-6,248.0	-60.7	427.2	316.5	110.68	3.860		
16,900.0	10,729.0	16,914.8	10,618.0	55.8	56.8	-74.80	-6,348.0	-60.0	427.2	314.8	112.36	3.802		
17,000.0	10,729.0	17,014.8	10,618.0	56.6	57.7	-74.80	-6,448.0	-59.4	427.2	313.1	114.04	3.746		
17,100.0	10,729.0	17,114.8	10,618.0	57.4	58.5	-74.80	-6,548.0	-58.8	427.2	311.4	115.72	3.691		
17,200.0	10,729.0	17,214.8	10,618.0	58.3	59.4	-74.80	-6,648.0	-58.1	427.2	309.8	117.40	3.638		
17,300.0	10,729.0	17,314.8	10,618.0	59.1	60.2	-74.80	-6,748.0	-57.5	427.2	308.1	119.09	3.587		
17,400.0	10,729.0	17,414.8	10,618.0	60.0	61.1	-74.80	-6,848.0	-56.9	427.2	306.4	120.77	3.537		
17,500.0	10,729.0	17,514.8	10,618.0	60.8	61.9	-74.80	-6,948.0	-56.2	427.1	304.7	122.46	3.488		
17,600.0	10,729.0	17,614.8	10,618.0	61.7	62.8	-74.80	-7,048.0	-55.6	427.1	303.0	124.14	3.441		
17,700.0	10,729.0	17,714.8	10,618.0	62.5	63.6	-74.80	-7,148.0	-55.0	427.1	301.3	125.83	3.395		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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		
17,800.0	10,729.0	17,814.8	10,618.0	63.4	64.5	-74.80	-7,248.0	-54.3	427.1	299.6	127.52	3.350		
17,900.0	10,729.0	17,914.8	10,618.0	64.2	65.3	-74.80	-7,348.0	-53.7	427.1	297.9	129.21	3.306		
18,000.0	10,729.0	18,014.8	10,618.0	65.1	66.2	-74.80	-7,448.0	-53.1	427.1	296.2	130.89	3.263		
18,100.0	10,729.0	18,114.8	10,618.0	66.0	67.0	-74.80	-7,548.0	-52.4	427.1	294.5	132.58	3.221		
18,200.0	10,729.0	18,214.8	10,618.0	66.8	67.9	-74.80	-7,647.9	-51.8	427.1	292.8	134.27	3.181		
18,300.0	10,729.0	18,314.8	10,618.0	67.7	68.7	-74.80	-7,747.9	-51.2	427.1	291.1	135.96	3.141		
18,400.0	10,729.0	18,414.8	10,618.0	68.5	69.6	-74.80	-7,847.9	-50.5	427.1	289.4	137.66	3.103		
18,500.0	10,729.0	18,514.8	10,618.0	69.4	70.5	-74.80	-7,947.9	-49.9	427.1	287.7	139.35	3.065		
18,600.0	10,729.0	18,614.8	10,618.0	70.2	71.3	-74.80	-8,047.9	-49.3	427.1	286.0	141.04	3.028		
18,700.0	10,729.0	18,714.8	10,618.0	71.1	72.2	-74.80	-8,147.9	-48.6	427.1	284.3	142.73	2.992		
18,800.0	10,729.0	18,814.8	10,618.0	71.9	73.0	-74.80	-8,247.9	-48.0	427.1	282.6	144.43	2.957		
18,900.0	10,729.0	18,914.8	10,618.0	72.8	73.9	-74.80	-8,347.9	-47.4	427.1	280.9	146.12	2.923		
19,000.0	10,729.0	19,014.8	10,618.0	73.6	74.7	-74.80	-8,447.9	-46.7	427.1	279.2	147.81	2.889		
19,100.0	10,729.0	19,114.8	10,618.0	74.5	75.6	-74.80	-8,547.9	-46.1	427.0	277.5	149.51	2.856		
19,200.0	10,729.0	19,214.8	10,618.0	75.3	76.4	-74.80	-8,647.9	-45.5	427.0	275.8	151.20	2.824		
19,300.0	10,729.0	19,314.8	10,618.0	76.2	77.3	-74.80	-8,747.9	-44.8	427.0	274.1	152.90	2.793		
19,400.0	10,729.0	19,414.8	10,618.0	77.0	78.1	-74.79	-8,847.9	-44.2	427.0	272.4	154.59	2.762		
19,500.0	10,729.0	19,514.8	10,618.0	77.9	79.0	-74.79	-8,947.9	-43.6	427.0	270.7	156.29	2.732		
19,600.0	10,729.0	19,614.8	10,618.0	78.7	79.9	-74.79	-9,047.9	-42.9	427.0	269.0	157.99	2.703		
19,700.0	10,729.0	19,714.8	10,618.0	79.6	80.7	-74.79	-9,147.9	-42.3	427.0	267.3	159.68	2.674		
19,800.0	10,729.0	19,814.8	10,618.0	80.5	81.6	-74.79	-9,247.9	-41.7	427.0	265.6	161.38	2.646		
19,900.0	10,729.0	19,914.8	10,618.0	81.3	82.4	-74.79	-9,347.9	-41.0	427.0	263.9	163.08	2.618		
20,000.0	10,729.0	20,014.8	10,618.0	82.2	83.3	-74.79	-9,447.9	-40.4	427.0	262.2	164.78	2.591		
20,100.0	10,729.0	20,114.8	10,618.0	83.0	84.1	-74.79	-9,547.9	-39.8	427.0	260.5	166.47	2.565		
20,200.0	10,729.0	20,214.8	10,618.0	83.9	85.0	-74.79	-9,647.9	-39.1	427.0	258.8	168.17	2.539		
20,300.0	10,729.0	20,314.8	10,618.0	84.7	85.9	-74.79	-9,747.9	-38.5	427.0	257.1	169.87	2.514		
20,400.0	10,729.0	20,414.8	10,618.0	85.6	86.7	-74.79	-9,847.9	-37.9	427.0	255.4	171.57	2.489		
20,500.0	10,729.0	20,514.8	10,618.0	86.4	87.6	-74.79	-9,947.9	-37.2	427.0	253.7	173.27	2.464		
20,600.0	10,729.0	20,614.8	10,618.0	87.3	88.4	-74.79	-10,047.9	-36.6	427.0	252.0	174.97	2.440		
20,700.0	10,729.0	20,714.8	10,618.0	88.1	89.3	-74.79	-10,147.9	-36.0	426.9	250.3	176.67	2.417		
20,770.9	10,729.0	20,785.7	10,618.0	88.6	89.9	-74.79	-10,218.8	-35.5	426.9	249.2	177.70	2.403 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 10091-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.0	0.0	0.0	0.0	3.0	3.0	-76.42	7.2	-29.9	30.8					
100.0	100.0	100.0	100.0	3.0	3.0	-76.42	7.2	-29.9	30.8	24.8	6.00	5.132		
200.0	200.0	200.0	200.0	3.0	3.0	-76.42	7.2	-29.9	30.8	24.8	6.00	5.129		
300.0	300.0	300.0	300.0	3.0	3.0	-76.42	7.2	-29.9	30.8	24.8	6.01	5.123		
400.0	400.0	400.0	400.0	3.0	3.0	-76.42	7.2	-29.9	30.8	24.8	6.02	5.114		
500.0	500.0	500.0	500.0	3.1	3.1	-76.42	7.2	-29.9	30.8	24.8	6.04	5.102		
600.0	600.0	600.0	600.0	3.1	3.1	-76.42	7.2	-29.9	30.8	24.7	6.05	5.087		
700.0	700.0	700.0	700.0	3.1	3.1	-76.42	7.2	-29.9	30.8	24.7	6.07	5.069		
800.0	800.0	800.0	800.0	3.2	3.2	-76.42	7.2	-29.9	30.8	24.7	6.10	5.048		
900.0	900.0	900.0	900.0	3.2	3.2	-76.42	7.2	-29.9	30.8	24.7	6.13	5.024		
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-76.42	7.2	-29.9	30.8	24.6	6.16	4.998		
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-76.42	7.2	-29.9	30.8	24.6	6.20	4.969		
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-76.42	7.2	-29.9	30.8	24.6	6.24	4.938		
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-76.42	7.2	-29.9	30.8	24.5	6.28	4.905		
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-76.42	7.2	-29.9	30.8	24.5	6.32	4.870		
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-76.42	7.2	-29.9	30.8	24.4	6.37	4.832		
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-76.42	7.2	-29.9	30.8	24.4	6.42	4.794		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-76.42	7.2	-29.9	30.8	24.3	6.48	4.753		
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-76.42	7.2	-29.9	30.8	24.3	6.54	4.711		
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-76.42	7.2	-29.9	30.8	24.2	6.60	4.668		
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-76.42	7.2	-29.9	30.8	24.1	6.66	4.623		
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-76.42	7.2	-29.9	30.8	24.1	6.73	4.578		
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-76.42	7.2	-29.9	30.8	24.0	6.79	4.532		
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-76.42	7.2	-29.9	30.8	23.9	6.87	4.485		
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-76.42	7.2	-29.9	30.8	23.9	6.94	4.437		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-76.42	7.2	-29.9	30.8	23.8	7.02	4.389 CC, ES		
2,600.0	2,600.0	2,598.9	2,598.9	4.5	4.5	-76.67	7.5	-31.6	32.5	25.4	7.10	4.582		
2,700.0	2,700.0	2,697.6	2,697.4	4.6	4.5	-77.27	8.3	-36.7	37.7	30.5	7.18	5.248		
2,800.0	2,800.0	2,795.8	2,795.2	4.7	4.5	-77.97	9.6	-45.0	46.3	39.0	7.26	6.371		
2,900.0	2,900.0	2,893.3	2,892.0	4.8	4.6	-78.61	11.4	-56.6	58.2	50.9	7.35	7.928		
3,000.0	3,000.0	2,992.2	2,990.0	4.9	4.6	-79.09	13.5	-70.1	72.1	64.7	7.44	9.692		
3,100.0	3,100.0	3,091.2	3,088.0	5.0	4.7	-79.42	15.6	-83.8	86.0	78.5	7.55	11.403		
3,200.0	3,200.0	3,190.2	3,186.1	5.1	4.8	-79.65	17.8	-97.4	100.0	92.3	7.66	13.058		
3,300.0	3,300.0	3,289.2	3,284.2	5.2	4.8	-79.83	19.9	-111.0	113.9	106.1	7.77	14.659		
3,400.0	3,400.0	3,388.3	3,382.2	5.3	4.9	-79.97	22.0	-124.6	127.8	119.9	7.89	16.205		
3,500.0	3,500.0	3,487.3	3,480.3	5.4	4.9	-80.08	24.2	-138.2	141.7	133.7	8.01	17.696		
3,600.0	3,600.0	3,586.3	3,578.3	5.5	5.0	-80.17	26.3	-151.8	155.6	147.5	8.13	19.135		
3,700.0	3,700.0	3,685.3	3,676.4	5.7	5.1	-80.25	28.4	-165.5	169.5	161.3	8.26	20.522		
3,800.0	3,800.0	3,784.4	3,774.5	5.8	5.2	-80.32	30.6	-179.1	183.5	175.1	8.39	21.858		
3,900.0	3,900.0	3,883.4	3,872.5	5.9	5.2	-80.37	32.7	-192.7	197.4	188.8	8.53	23.145		
4,000.0	4,000.0	3,982.4	3,970.6	6.0	5.3	-80.42	34.8	-206.3	211.3	202.6	8.66	24.384		
4,100.0	4,100.0	4,081.5	4,068.7	6.1	5.4	-80.46	36.9	-219.9	225.2	216.4	8.81	25.576		
4,200.0	4,200.0	4,180.5	4,166.7	6.2	5.5	-80.50	39.1	-233.5	239.1	230.2	8.95	26.723		
4,300.0	4,300.0	4,279.5	4,264.8	6.3	5.6	-80.54	41.2	-247.2	253.0	243.9	9.09	27.827		
4,400.0	4,400.0	4,378.5	4,362.8	6.5	5.7	-80.57	43.3	-260.8	266.9	257.7	9.24	28.889		
4,500.0	4,500.0	4,477.6	4,460.9	6.6	5.7	-80.59	45.5	-274.4	280.9	271.5	9.39	29.910		
4,600.0	4,600.0	4,576.6	4,559.0	6.7	5.8	-80.62	47.6	-288.0	294.8	285.2	9.54	30.893		
4,700.0	4,700.0	4,675.6	4,657.0	6.8	5.9	-80.64	49.7	-301.6	308.7	299.0	9.70	31.839		
4,800.0	4,800.0	4,774.6	4,755.1	6.9	6.0	-80.66	51.9	-315.2	322.6	312.8	9.85	32.749		
4,900.0	4,900.0	4,873.7	4,853.2	7.0	6.1	-80.68	54.0	-328.9	336.5	326.5	10.01	33.624		
5,000.0	5,000.0	4,972.7	4,951.2	7.2	6.2	-80.70	56.1	-342.5	350.5	340.3	10.17	34.467		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
5,100.0	5,100.0	5,071.7	5,049.3	7.3	6.3	-80.71		58.2	-356.1	364.4	354.0	10.33	35.278	
5,200.0	5,200.0	5,170.8	5,147.4	7.4	6.4	-80.73		60.4	-369.7	378.3	367.8	10.49	36.059	
5,300.0	5,300.0	5,269.8	5,245.4	7.5	6.5	-80.74		62.5	-383.3	392.2	381.5	10.65	36.811	
5,400.0	5,400.0	5,368.8	5,343.5	7.6	6.6	-80.75		64.6	-396.9	406.1	395.3	10.82	37.535	
5,500.0	5,500.0	5,467.8	5,441.5	7.8	6.7	-80.76		66.8	-410.6	420.0	409.0	10.99	38.233	
5,600.0	5,600.0	5,567.1	5,539.8	7.8	6.8	9.22		68.9	-424.2	432.2	421.1	11.16	38.717	
5,700.0	5,699.8	5,666.7	5,638.5	7.9	7.0	9.29		71.0	-437.9	441.0	429.7	11.36	38.835	
5,788.0	5,787.5	5,754.5	5,725.5	7.9	7.1	9.42		72.9	-450.0	445.9	434.4	11.53	38.674	
5,800.0	5,799.5	5,766.5	5,737.3	7.9	7.1	9.44		73.2	-451.6	446.4	434.8	11.55	38.636	
5,900.0	5,898.9	5,866.4	5,836.3	8.0	7.2	9.63		75.3	-465.4	450.4	438.7	11.76	38.318	
6,000.0	5,998.4	5,966.3	5,935.2	8.0	7.3	9.82		77.5	-479.1	454.5	442.5	11.96	38.001	
6,100.0	6,097.9	6,066.2	6,034.1	8.0	7.4	10.01		79.6	-492.8	458.6	446.4	12.17	37.687	
6,200.0	6,197.4	6,166.2	6,133.1	8.1	7.5	10.19		81.8	-506.6	462.6	450.2	12.38	37.375	
6,300.0	6,296.9	6,266.1	6,232.0	8.1	7.6	10.37		83.9	-520.3	466.7	454.1	12.59	37.067	
6,400.0	6,396.4	6,366.0	6,330.9	8.2	7.7	10.54		86.1	-534.1	470.8	458.0	12.81	36.763	
6,500.0	6,495.9	6,465.9	6,429.9	8.2	7.9	10.72		88.2	-547.8	474.8	461.8	13.02	36.463	
6,600.0	6,595.4	6,565.8	6,528.8	8.3	8.0	10.89		90.4	-561.5	478.9	465.7	13.24	36.167	
6,700.0	6,694.9	6,665.7	6,627.7	8.4	8.1	11.05		92.5	-575.3	483.0	469.5	13.46	35.876	
6,800.0	6,794.4	6,765.6	6,726.7	8.4	8.2	11.22		94.7	-589.0	487.1	473.4	13.69	35.590	
6,900.0	6,893.9	6,865.5	6,825.6	8.5	8.3	11.38		96.8	-602.7	491.2	477.3	13.91	35.309	
7,000.0	6,993.4	6,965.4	6,924.5	8.5	8.5	11.54		99.0	-616.5	495.3	481.1	14.14	35.033	
7,100.0	7,092.9	7,065.3	7,023.5	8.6	8.6	11.69		101.1	-630.2	499.4	485.0	14.36	34.763	
7,200.0	7,192.4	7,165.2	7,122.4	8.7	8.7	11.85		103.3	-644.0	503.5	488.9	14.59	34.498	
7,300.0	7,291.9	7,265.1	7,221.3	8.7	8.8	12.00		105.4	-657.7	507.6	492.8	14.83	34.238	
7,400.0	7,391.4	7,365.0	7,320.3	8.8	9.0	12.14		107.6	-671.4	511.7	496.6	15.06	33.983	
7,500.0	7,490.9	7,464.9	7,419.2	8.9	9.1	12.29		109.7	-685.2	515.8	500.5	15.29	33.734	
7,600.0	7,590.4	7,564.8	7,518.2	8.9	9.2	12.43		111.9	-698.9	519.9	504.4	15.52	33.490	
7,700.0	7,689.9	7,664.8	7,617.1	9.0	9.3	12.58		114.0	-712.6	524.0	508.3	15.76	33.251	
7,800.0	7,789.4	7,764.7	7,716.0	9.1	9.5	12.72		116.2	-726.4	528.2	512.2	16.00	33.017	
7,900.0	7,888.9	7,864.6	7,815.0	9.2	9.6	12.85		118.3	-740.1	532.3	516.0	16.23	32.788	
8,000.0	7,988.3	7,964.5	7,913.9	9.3	9.7	12.99		120.4	-753.8	536.4	519.9	16.47	32.564	
8,100.0	8,087.8	8,064.4	8,012.8	9.3	9.9	13.12		122.6	-767.6	540.5	523.8	16.71	32.345	
8,200.0	8,187.3	8,164.3	8,111.8	9.4	10.0	13.25		124.7	-781.3	544.7	527.7	16.95	32.131	
8,300.0	8,286.8	8,264.2	8,210.7	9.5	10.1	13.38		126.9	-795.1	548.8	531.6	17.19	31.922	
8,400.0	8,386.3	8,364.1	8,309.6	9.6	10.2	13.51		129.0	-808.8	553.0	535.5	17.43	31.717	
8,500.0	8,485.8	8,464.0	8,408.6	9.7	10.4	13.63		131.2	-822.5	557.1	539.4	17.68	31.517	
8,600.0	8,585.3	8,563.9	8,507.5	9.8	10.5	13.76		133.3	-836.3	561.2	543.3	17.92	31.321	
8,700.0	8,684.8	8,663.8	8,606.4	9.8	10.7	13.88		135.5	-850.0	565.4	547.2	18.16	31.129	
8,800.0	8,784.3	8,763.7	8,705.4	9.9	10.8	14.00		137.6	-863.7	569.5	551.1	18.41	30.942	
8,900.0	8,883.8	8,863.6	8,804.3	10.0	10.9	14.11		139.8	-877.5	573.7	555.0	18.65	30.758	
9,000.0	8,983.3	8,963.5	8,903.2	10.1	11.1	14.23		141.9	-891.2	577.8	559.0	18.90	30.579	
9,100.0	9,082.8	9,077.1	9,015.8	10.2	11.2	14.37		144.3	-906.1	581.4	562.3	19.12	30.406	
9,200.0	9,182.3	9,202.4	9,140.5	10.3	11.4	14.57		146.1	-917.7	581.0	561.6	19.38	29.981	
9,300.0	9,281.8	9,327.4	9,265.3	10.4	11.5	14.82		147.0	-923.9	576.3	556.6	19.70	29.248	
9,400.0	9,381.3	9,443.3	9,381.3	10.5	11.6	15.11		147.2	-925.1	567.6	547.5	20.01	28.362	
9,500.0	9,480.8	9,542.8	9,480.8	10.6	11.7	15.38		147.2	-925.1	557.9	537.7	20.21	27.599	
9,600.0	9,580.3	9,642.3	9,580.3	10.7	11.8	15.65		147.2	-925.1	548.2	527.8	20.42	26.849	
9,700.0	9,679.8	9,741.8	9,679.8	10.8	11.9	15.94		147.2	-925.1	538.5	517.9	20.62	26.112	
9,800.0	9,779.3	9,841.3	9,779.3	10.9	12.0	16.24		147.2	-925.1	528.9	508.1	20.83	25.388	
9,900.0	9,878.8	9,940.8	9,878.8	11.0	12.1	16.55		147.2	-925.1	519.3	498.2	21.04	24.676	
10,000.0	9,978.2	10,040.3	9,978.2	11.1	12.2	16.87		147.2	-925.1	509.6	488.4	21.24	23.989	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
10,100.0	10,077.7	10,156.8	10,094.6	11.2	12.2	16.85	143.5	-925.1	499.2	477.8	21.43	23.297		
10,200.0	10,177.2	10,284.3	10,218.6	11.3	12.2	14.00	115.0	-924.9	483.3	461.8	21.50	22.482		
10,276.7	10,253.6	10,370.8	10,297.8	11.4	12.3	10.05	80.3	-924.7	468.8	447.2	21.56	21.738		
10,300.0	10,276.7	10,395.0	10,318.9	11.4	12.3	35.06	68.5	-924.6	464.4	443.0	21.44	21.661		
10,325.0	10,301.5	10,420.6	10,340.7	11.4	12.3	53.52	55.1	-924.5	460.0	438.7	21.30	21.599		
10,350.0	10,326.2	10,445.7	10,361.4	11.4	12.4	64.26	41.0	-924.4	455.9	434.8	21.15	21.558		
10,375.0	10,350.7	10,470.3	10,381.2	11.4	12.4	70.55	26.2	-924.3	452.1	431.1	21.00	21.530		
10,400.0	10,374.9	10,494.6	10,400.0	11.4	12.4	74.38	10.9	-924.2	448.6	427.8	20.85	21.516		
10,425.0	10,398.8	10,518.5	10,417.9	11.4	12.4	76.78	-5.0	-924.1	445.4	424.7	20.71	21.505		
10,450.0	10,422.2	10,542.1	10,434.9	11.4	12.4	78.28	-21.3	-924.0	442.5	422.0	20.59	21.497		
10,475.0	10,445.3	10,565.4	10,451.0	11.4	12.5	79.20	-38.1	-923.9	439.9	419.5	20.48	21.482		
10,500.0	10,467.8	10,588.3	10,466.2	11.5	12.5	79.72	-55.4	-923.8	437.6	417.2	20.39	21.457		
10,525.0	10,489.7	10,611.1	10,480.5	11.5	12.5	79.96	-73.0	-923.7	435.5	415.2	20.34	21.417		
10,550.0	10,510.9	10,633.6	10,494.0	11.5	12.6	80.00	-91.0	-923.6	433.7	413.4	20.31	21.357		
10,575.0	10,531.5	10,655.9	10,506.7	11.5	12.6	79.88	-109.3	-923.5	432.2	411.9	20.32	21.274		
10,600.0	10,551.3	10,677.9	10,518.5	11.5	12.6	79.65	-128.0	-923.4	430.9	410.5	20.36	21.164		
10,625.0	10,570.3	10,700.0	10,529.6	11.5	12.6	79.33	-147.0	-923.2	429.8	409.4	20.43	21.033		
10,650.0	10,588.4	10,721.5	10,539.7	11.6	12.7	78.96	-166.0	-923.1	428.9	408.4	20.55	20.869		
10,675.0	10,605.6	10,743.1	10,549.1	11.6	12.7	78.55	-185.4	-923.0	428.2	407.5	20.70	20.685		
10,700.0	10,621.8	10,764.5	10,557.7	11.6	12.7	78.09	-205.0	-922.9	427.7	406.9	20.89	20.479		
10,725.0	10,637.0	10,785.8	10,565.6	11.6	12.8	77.62	-224.8	-922.7	427.4	406.3	21.10	20.257		
10,750.0	10,651.2	10,806.9	10,572.6	11.7	12.8	77.14	-244.8	-922.6	427.2	405.9	21.34	20.021		
10,773.6	10,663.6	10,826.8	10,578.6	11.7	12.8	76.68	-263.7	-922.5	427.2	405.6	21.58	19.789		
10,775.0	10,664.3	10,828.0	10,578.9	11.7	12.8	76.65	-264.8	-922.5	427.2	405.6	21.60	19.775		
10,800.0	10,676.2	10,850.0	10,584.7	11.7	12.9	76.14	-286.1	-922.4	427.2	405.4	21.86	19.542		
10,825.0	10,687.1	10,869.8	10,589.2	11.8	12.9	75.70	-305.3	-922.2	427.4	405.2	22.17	19.275		
10,850.0	10,696.7	10,890.5	10,593.2	11.8	12.9	75.24	-325.7	-922.1	427.6	405.2	22.48	19.028		
10,875.0	10,705.1	10,911.2	10,596.4	11.8	13.0	74.79	-346.1	-922.0	428.0	405.2	22.78	18.786		
10,900.0	10,712.2	10,931.8	10,598.9	11.9	13.0	74.37	-366.6	-921.8	428.4	405.3	23.09	18.553		
10,925.0	10,718.1	10,950.0	10,600.5	11.9	13.0	74.01	-384.7	-921.7	428.9	405.4	23.42	18.310		
10,950.0	10,722.8	10,972.8	10,601.7	11.9	13.1	73.59	-407.5	-921.6	429.4	405.7	23.69	18.122		
10,975.0	10,726.1	10,993.8	10,602.0	12.0	13.1	73.24	-428.4	-921.5	429.9	405.9	23.98	17.930		
11,000.0	10,728.2	11,018.7	10,602.0	12.0	13.1	72.95	-453.3	-921.3	430.3	406.1	24.20	17.778		
11,027.1	10,729.0	11,045.7	10,602.0	12.0	13.2	72.84	-480.4	-921.1	430.4	406.0	24.41	17.634		
11,100.0	10,729.0	11,118.6	10,602.0	12.2	13.4	72.84	-553.3	-920.7	430.5	405.5	24.94	17.262		
11,200.0	10,729.0	11,218.6	10,602.0	12.4	13.6	72.84	-653.3	-920.0	430.5	404.7	25.75	16.719		
11,300.0	10,729.0	11,318.6	10,602.0	12.6	14.0	72.84	-753.3	-919.4	430.5	403.8	26.64	16.157		
11,400.0	10,729.0	11,418.6	10,602.0	12.9	14.4	72.84	-853.3	-918.8	430.5	402.9	27.62	15.588		
11,500.0	10,729.0	11,518.6	10,602.0	13.3	14.9	72.84	-953.3	-918.1	430.5	401.8	28.66	15.021		
11,600.0	10,729.0	11,618.6	10,602.0	13.8	15.4	72.84	-1,053.3	-917.5	430.5	400.7	29.76	14.464		
11,700.0	10,729.0	11,718.6	10,602.0	14.3	16.0	72.84	-1,153.3	-916.9	430.5	399.6	30.92	13.921		
11,800.0	10,729.0	11,818.6	10,602.0	14.9	16.6	72.84	-1,253.3	-916.2	430.5	398.4	32.13	13.398		
11,900.0	10,729.0	11,918.6	10,602.0	15.5	17.2	72.84	-1,353.3	-915.6	430.5	397.1	33.38	12.895		
12,000.0	10,729.0	12,018.6	10,602.0	16.1	17.9	72.84	-1,453.3	-915.0	430.5	395.8	34.68	12.415		
12,100.0	10,729.0	12,118.6	10,602.0	16.8	18.6	72.84	-1,553.3	-914.3	430.5	394.5	36.00	11.958		
12,200.0	10,729.0	12,218.6	10,602.0	17.5	19.2	72.84	-1,653.3	-913.7	430.5	393.2	37.36	11.524		
12,300.0	10,729.0	12,318.6	10,602.0	18.2	19.9	72.84	-1,753.3	-913.1	430.5	391.8	38.74	11.112		
12,400.0	10,729.0	12,418.6	10,602.0	18.9	20.7	72.84	-1,853.3	-912.4	430.5	390.4	40.15	10.722		
12,500.0	10,729.0	12,518.6	10,602.0	19.6	21.4	72.84	-1,953.3	-911.8	430.5	389.0	41.59	10.353		
12,600.0	10,729.0	12,618.6	10,602.0	20.4	22.1	72.84	-2,053.3	-911.2	430.6	387.5	43.04	10.004		
12,700.0	10,729.0	12,718.6	10,602.0	21.1	22.9	72.84	-2,153.3	-910.5	430.6	386.1	44.51	9.673		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.0	10,729.0	12,818.6	10,602.0	21.9	23.6	72.84	72.84	-2,253.3	-909.9	430.6	384.6	46.00	9.361	
12,900.0	10,729.0	12,918.6	10,602.0	22.7	24.4	72.85	72.85	-2,353.3	-909.3	430.6	383.1	47.50	9.065	
13,000.0	10,729.0	13,018.6	10,602.0	23.4	25.2	72.85	72.85	-2,453.3	-908.6	430.6	381.6	49.01	8.785	
13,100.0	10,729.0	13,118.6	10,602.0	24.2	26.0	72.85	72.85	-2,553.3	-908.0	430.6	380.0	50.54	8.520	
13,200.0	10,729.0	13,218.6	10,602.0	25.0	26.7	72.85	72.85	-2,653.3	-907.4	430.6	378.5	52.08	8.268	
13,300.0	10,729.0	13,318.6	10,602.0	25.8	27.5	72.85	72.85	-2,753.3	-906.8	430.6	377.0	53.63	8.029	
13,400.0	10,729.0	13,418.6	10,602.0	26.6	28.3	72.85	72.85	-2,853.3	-906.1	430.6	375.4	55.19	7.803	
13,500.0	10,729.0	13,518.6	10,602.0	27.4	29.1	72.85	72.85	-2,953.3	-905.5	430.6	373.9	56.75	7.587	
13,600.0	10,729.0	13,618.6	10,602.0	28.2	29.9	72.85	72.85	-3,053.3	-904.9	430.6	372.3	58.33	7.383	
13,700.0	10,729.0	13,718.6	10,602.0	29.0	30.7	72.85	72.85	-3,153.3	-904.2	430.6	370.7	59.91	7.188	
13,800.0	10,729.0	13,818.6	10,602.0	29.8	31.5	72.85	72.85	-3,253.3	-903.6	430.6	369.1	61.50	7.002	
13,900.0	10,729.0	13,918.6	10,602.0	30.7	32.3	72.85	72.85	-3,353.3	-903.0	430.6	367.6	63.09	6.825	
14,000.0	10,729.0	14,018.6	10,602.0	31.5	33.1	72.85	72.85	-3,453.2	-902.3	430.7	366.0	64.70	6.657	
14,100.0	10,729.0	14,118.6	10,602.0	32.3	34.0	72.85	72.85	-3,553.2	-901.7	430.7	364.4	66.30	6.495	
14,200.0	10,729.0	14,218.6	10,602.0	33.1	34.8	72.85	72.85	-3,653.2	-901.1	430.7	362.8	67.91	6.341	
14,300.0	10,729.0	14,318.6	10,602.0	33.9	35.6	72.85	72.85	-3,753.2	-900.4	430.7	361.1	69.53	6.194	
14,400.0	10,729.0	14,418.6	10,602.0	34.8	36.4	72.85	72.85	-3,853.2	-899.8	430.7	359.5	71.15	6.053	
14,500.0	10,729.0	14,518.6	10,602.0	35.6	37.2	72.85	72.85	-3,953.2	-899.2	430.7	357.9	72.77	5.918	
14,600.0	10,729.0	14,618.6	10,602.0	36.4	38.1	72.85	72.85	-4,053.2	-898.5	430.7	356.3	74.40	5.789	
14,700.0	10,729.0	14,718.6	10,602.0	37.2	38.9	72.85	72.85	-4,153.2	-897.9	430.7	354.7	76.03	5.665	
14,800.0	10,729.0	14,818.6	10,602.0	38.1	39.7	72.85	72.85	-4,253.2	-897.3	430.7	353.0	77.67	5.546	
14,900.0	10,729.0	14,918.6	10,602.0	38.9	40.5	72.85	72.85	-4,353.2	-896.6	430.7	351.4	79.30	5.431	
15,000.0	10,729.0	15,018.6	10,602.0	39.7	41.4	72.85	72.85	-4,453.2	-896.0	430.7	349.8	80.95	5.321	
15,100.0	10,729.0	15,118.6	10,602.0	40.6	42.2	72.85	72.85	-4,553.2	-895.4	430.7	348.1	82.59	5.215	
15,200.0	10,729.0	15,218.6	10,602.0	41.4	43.0	72.85	72.85	-4,653.2	-894.7	430.7	346.5	84.23	5.114	
15,300.0	10,729.0	15,318.6	10,602.0	42.3	43.9	72.85	72.85	-4,753.2	-894.1	430.7	344.9	85.88	5.015	
15,400.0	10,729.0	15,418.6	10,602.0	43.1	44.7	72.85	72.85	-4,853.2	-893.5	430.8	343.2	87.53	4.921	
15,500.0	10,729.0	15,518.6	10,602.0	43.9	45.5	72.85	72.85	-4,953.2	-892.8	430.8	341.6	89.19	4.830	
15,600.0	10,729.0	15,618.6	10,602.0	44.8	46.4	72.85	72.85	-5,053.2	-892.2	430.8	339.9	90.84	4.742	
15,700.0	10,729.0	15,718.6	10,602.0	45.6	47.2	72.85	72.85	-5,153.2	-891.6	430.8	338.3	92.50	4.657	
15,800.0	10,729.0	15,818.6	10,602.0	46.5	48.1	72.85	72.85	-5,253.2	-890.9	430.8	336.6	94.16	4.575	
15,900.0	10,729.0	15,918.6	10,602.0	47.3	48.9	72.85	72.85	-5,353.2	-890.3	430.8	335.0	95.82	4.496	
16,000.0	10,729.0	16,018.6	10,602.0	48.1	49.7	72.85	72.85	-5,453.2	-889.7	430.8	333.3	97.48	4.419	
16,100.0	10,729.0	16,118.6	10,602.0	49.0	50.6	72.85	72.85	-5,553.2	-889.0	430.8	331.7	99.14	4.345	
16,200.0	10,729.0	16,218.6	10,602.0	49.8	51.4	72.85	72.85	-5,653.2	-888.4	430.8	330.0	100.81	4.274	
16,300.0	10,729.0	16,318.6	10,602.0	50.7	52.3	72.85	72.85	-5,753.2	-887.8	430.8	328.3	102.48	4.204	
16,400.0	10,729.0	16,418.6	10,602.0	51.5	53.1	72.86	72.86	-5,853.2	-887.1	430.8	326.7	104.14	4.137	
16,500.0	10,729.0	16,518.6	10,602.0	52.4	54.0	72.86	72.86	-5,953.2	-886.5	430.8	325.0	105.81	4.072	
16,600.0	10,729.0	16,618.6	10,602.0	53.2	54.8	72.86	72.86	-6,053.2	-885.9	430.8	323.4	107.48	4.008	
16,700.0	10,729.0	16,718.6	10,602.0	54.1	55.6	72.86	72.86	-6,153.2	-885.2	430.8	321.7	109.16	3.947	
16,800.0	10,729.0	16,818.6	10,602.0	54.9	56.5	72.86	72.86	-6,253.2	-884.6	430.8	320.0	110.83	3.888	
16,900.0	10,729.0	16,918.6	10,602.0	55.8	57.3	72.86	72.86	-6,353.2	-884.0	430.9	318.4	112.50	3.830	
17,000.0	10,729.0	17,018.6	10,602.0	56.6	58.2	72.86	72.86	-6,453.2	-883.3	430.9	316.7	114.18	3.774	
17,100.0	10,729.0	17,118.6	10,602.0	57.4	59.0	72.86	72.86	-6,553.2	-882.7	430.9	315.0	115.85	3.719	
17,200.0	10,729.0	17,218.6	10,602.0	58.3	59.9	72.86	72.86	-6,653.2	-882.1	430.9	313.3	117.53	3.666	
17,300.0	10,729.0	17,318.6	10,602.0	59.1	60.7	72.86	72.86	-6,753.2	-881.4	430.9	311.7	119.21	3.615	
17,400.0	10,729.0	17,418.6	10,602.0	60.0	61.6	72.86	72.86	-6,853.2	-880.8	430.9	310.0	120.89	3.564	
17,500.0	10,729.0	17,518.6	10,602.0	60.8	62.4	72.86	72.86	-6,953.2	-880.2	430.9	308.3	122.56	3.516	
17,600.0	10,729.0	17,618.6	10,602.0	61.7	63.3	72.86	72.86	-7,053.2	-879.5	430.9	306.7	124.24	3.468	
17,700.0	10,729.0	17,718.6	10,602.0	62.5	64.1	72.86	72.86	-7,153.2	-878.9	430.9	305.0	125.93	3.422	
17,800.0	10,729.0	17,818.6	10,602.0	63.4	65.0	72.86	72.86	-7,253.2	-878.3	430.9	303.3	127.61	3.377	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10091-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
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		
17,900.0	10,729.0	17,918.6	10,602.0	64.2	65.8	72.86	-7,353.2	-877.7	430.9	301.6	129.29	3.333		
18,000.0	10,729.0	18,018.6	10,602.0	65.1	66.7	72.86	-7,453.2	-877.0	430.9	300.0	130.97	3.290		
18,100.0	10,729.0	18,118.6	10,602.0	66.0	67.5	72.86	-7,553.2	-876.4	430.9	298.3	132.66	3.249		
18,200.0	10,729.0	18,218.6	10,602.0	66.8	68.4	72.86	-7,653.2	-875.8	430.9	296.6	134.34	3.208		
18,300.0	10,729.0	18,318.6	10,602.0	67.7	69.2	72.86	-7,753.2	-875.1	431.0	294.9	136.03	3.168		
18,400.0	10,729.0	18,418.6	10,602.0	68.5	70.1	72.86	-7,853.2	-874.5	431.0	293.3	137.71	3.129		
18,500.0	10,729.0	18,518.6	10,602.0	69.4	70.9	72.86	-7,953.2	-873.9	431.0	291.6	139.40	3.092		
18,600.0	10,729.0	18,618.6	10,602.0	70.2	71.8	72.86	-8,053.2	-873.2	431.0	289.9	141.08	3.055		
18,700.0	10,729.0	18,718.6	10,602.0	71.1	72.6	72.86	-8,153.2	-872.6	431.0	288.2	142.77	3.019		
18,800.0	10,729.0	18,818.6	10,602.0	71.9	73.5	72.86	-8,253.2	-872.0	431.0	286.5	144.46	2.983		
18,900.0	10,729.0	18,918.6	10,602.0	72.8	74.3	72.86	-8,353.2	-871.3	431.0	284.9	146.15	2.949		
19,000.0	10,729.0	19,018.6	10,602.0	73.6	75.2	72.86	-8,453.1	-870.7	431.0	283.2	147.84	2.915		
19,100.0	10,729.0	19,118.6	10,602.0	74.5	76.0	72.86	-8,553.1	-870.1	431.0	281.5	149.52	2.883		
19,200.0	10,729.0	19,218.6	10,602.0	75.3	76.9	72.86	-8,653.1	-869.4	431.0	279.8	151.21	2.850		
19,300.0	10,729.0	19,318.6	10,602.0	76.2	77.7	72.86	-8,753.1	-868.8	431.0	278.1	152.90	2.819		
19,400.0	10,729.0	19,418.6	10,602.0	77.0	78.6	72.86	-8,853.1	-868.2	431.0	276.4	154.59	2.788		
19,500.0	10,729.0	19,518.6	10,602.0	77.9	79.4	72.86	-8,953.1	-867.5	431.0	274.8	156.28	2.758		
19,600.0	10,729.0	19,618.6	10,602.0	78.7	80.3	72.86	-9,053.1	-866.9	431.0	273.1	157.98	2.729		
19,700.0	10,729.0	19,718.6	10,602.0	79.6	81.1	72.86	-9,153.1	-866.3	431.1	271.4	159.67	2.700		
19,800.0	10,729.0	19,818.6	10,602.0	80.5	82.0	72.87	-9,253.1	-865.6	431.1	269.7	161.36	2.671		
19,900.0	10,729.0	19,918.6	10,602.0	81.3	82.9	72.87	-9,353.1	-865.0	431.1	268.0	163.05	2.644		
20,000.0	10,729.0	20,018.6	10,602.0	82.2	83.7	72.87	-9,453.1	-864.4	431.1	266.3	164.74	2.617		
20,100.0	10,729.0	20,118.6	10,602.0	83.0	84.6	72.87	-9,553.1	-863.7	431.1	264.6	166.44	2.590		
20,200.0	10,729.0	20,218.6	10,602.0	83.9	85.4	72.87	-9,653.1	-863.1	431.1	263.0	168.13	2.564		
20,300.0	10,729.0	20,318.6	10,602.0	84.7	86.3	72.87	-9,753.1	-862.5	431.1	261.3	169.82	2.538		
20,400.0	10,729.0	20,418.6	10,602.0	85.6	87.1	72.87	-9,853.1	-861.8	431.1	259.6	171.52	2.513		
20,500.0	10,729.0	20,518.6	10,602.0	86.4	88.0	72.87	-9,953.1	-861.2	431.1	257.9	173.21	2.489		
20,600.0	10,729.0	20,618.6	10,602.0	87.3	88.8	72.87	-10,053.1	-860.6	431.1	256.2	174.91	2.465		
20,700.0	10,729.0	20,718.6	10,602.0	88.1	89.7	72.87	-10,153.1	-859.9	431.1	254.5	176.60	2.441		
20,770.9	10,729.0	20,789.6	10,602.0	88.6	90.3	72.87	-10,224.0	-859.5	431.1	253.5	177.62	2.427 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	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 #803H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major 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	0.0	0.0	3.0	3.0	-90.48	-0.5	-59.9	59.9					
100.0	100.0	100.0	100.0	3.0	3.0	-90.48	-0.5	-59.9	59.9	53.9	6.00	9.985		
200.0	200.0	200.0	200.0	3.0	3.0	-90.48	-0.5	-59.9	59.9	53.9	6.04	9.921		
300.0	300.0	300.0	300.0	3.0	3.1	-90.48	-0.5	-59.9	59.9	53.8	6.12	9.790		
400.0	400.0	400.0	400.0	3.0	3.2	-90.48	-0.5	-59.9	59.9	53.7	6.24	9.600		
500.0	500.0	500.0	500.0	3.1	3.4	-90.48	-0.5	-59.9	59.9	53.5	6.40	9.365		
600.0	600.0	600.0	600.0	3.1	3.6	-90.48	-0.5	-59.9	59.9	53.4	6.59	9.098		
700.0	700.0	700.0	700.0	3.1	3.8	-90.48	-0.5	-59.9	59.9	53.1	6.80	8.810		
800.0	800.0	800.0	800.0	3.2	4.0	-90.48	-0.5	-59.9	59.9	52.9	7.04	8.511		
900.0	900.0	900.0	900.0	3.2	4.2	-90.48	-0.5	-59.9	59.9	52.6	7.30	8.211		
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-90.48	-0.5	-59.9	59.9	52.4	7.58	7.913		
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-90.48	-0.5	-59.9	59.9	52.1	7.86	7.622		
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-90.48	-0.5	-59.9	59.9	51.8	8.17	7.341		
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-90.48	-0.5	-59.9	59.9	51.5	8.48	7.071		
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-90.48	-0.5	-59.9	59.9	51.1	8.80	6.813		
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-90.48	-0.5	-59.9	59.9	50.8	9.13	6.568		
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-90.48	-0.5	-59.9	59.9	50.5	9.46	6.335		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-90.48	-0.5	-59.9	59.9	50.1	9.80	6.115		
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-90.48	-0.5	-59.9	59.9	49.8	10.15	5.906		
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-90.48	-0.5	-59.9	59.9	49.4	10.50	5.708		
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-90.48	-0.5	-59.9	59.9	49.1	10.86	5.521		
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-90.48	-0.5	-59.9	59.9	48.7	11.22	5.344		
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-90.48	-0.5	-59.9	59.9	48.4	11.58	5.177		
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-90.48	-0.5	-59.9	59.9	48.0	11.95	5.018		
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-90.48	-0.5	-59.9	59.9	47.6	12.32	4.867		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-90.48	-0.5	-59.9	59.9	47.3	12.69	4.724 CC, ES		
2,600.0	2,600.0	2,597.9	2,597.9	4.5	9.6	-90.45	-0.5	-61.6	61.7	48.6	13.04	4.727		
2,700.0	2,700.0	2,695.6	2,695.4	4.6	9.9	-90.37	-0.4	-66.6	66.8	53.4	13.38	4.991		
2,800.0	2,800.0	2,792.8	2,792.3	4.7	10.2	-90.26	-0.3	-74.9	75.3	61.6	13.71	5.492		
2,900.0	2,900.0	2,890.1	2,889.0	4.8	10.5	-90.15	-0.2	-86.4	87.1	73.0	14.04	6.200		
3,000.0	3,000.0	2,989.3	2,987.3	4.9	10.9	-90.06	-0.1	-98.9	99.7	85.3	14.41	6.923		
3,100.0	3,100.0	3,088.5	3,085.7	5.0	11.2	-89.98	0.0	-111.5	112.4	97.7	14.78	7.607		
3,200.0	3,200.0	3,187.7	3,184.1	5.1	11.5	-89.93	0.2	-124.1	125.1	110.0	15.15	8.257		
3,300.0	3,300.0	3,286.9	3,282.5	5.2	11.9	-89.88	0.3	-136.7	137.8	122.3	15.53	8.873		
3,400.0	3,400.0	3,386.1	3,380.9	5.3	12.2	-89.84	0.4	-149.3	150.5	134.6	15.91	9.458		
3,500.0	3,500.0	3,485.3	3,479.3	5.4	12.5	-89.81	0.6	-161.9	163.2	146.9	16.30	10.015		
3,600.0	3,600.0	3,584.5	3,577.7	5.5	12.9	-89.78	0.7	-174.5	175.9	159.2	16.68	10.544		
3,700.0	3,700.0	3,683.7	3,676.1	5.7	13.2	-89.75	0.8	-187.1	188.6	171.5	17.07	11.048		
3,800.0	3,800.0	3,782.9	3,774.5	5.8	13.6	-89.73	0.9	-199.6	201.3	183.8	17.46	11.529		
3,900.0	3,900.0	3,882.1	3,872.8	5.9	13.9	-89.71	1.1	-212.2	214.0	196.1	17.85	11.987		
4,000.0	4,000.0	3,981.2	3,971.2	6.0	14.3	-89.69	1.2	-224.8	226.7	208.4	18.24	12.424		
4,100.0	4,100.0	4,080.4	4,069.6	6.1	14.6	-89.68	1.3	-237.4	239.3	220.7	18.64	12.841		
4,200.0	4,200.0	4,179.6	4,168.0	6.2	15.0	-89.67	1.5	-250.0	252.0	233.0	19.04	13.240		
4,300.0	4,300.0	4,278.8	4,266.4	6.3	15.3	-89.65	1.6	-262.6	264.7	245.3	19.43	13.621		
4,400.0	4,400.0	4,378.0	4,364.8	6.5	15.7	-89.64	1.7	-275.2	277.4	257.6	19.84	13.986		
4,500.0	4,500.0	4,477.2	4,463.2	6.6	16.0	-89.63	1.8	-287.8	290.1	269.9	20.24	14.335		
4,600.0	4,600.0	4,576.4	4,561.6	6.7	16.4	-89.62	2.0	-300.3	302.8	282.2	20.64	14.670		
4,700.0	4,700.0	4,675.6	4,660.0	6.8	16.7	-89.61	2.1	-312.9	315.5	294.4	21.04	14.991		
4,800.0	4,800.0	4,774.8	4,758.4	6.9	17.1	-89.61	2.2	-325.5	328.2	306.7	21.45	15.300		
4,900.0	4,900.0	4,874.0	4,856.7	7.0	17.4	-89.60	2.4	-338.1	340.9	319.0	21.86	15.595		
5,000.0	5,000.0	4,973.2	4,955.1	7.2	17.8	-89.59	2.5	-350.7	353.6	331.3	22.27	15.880		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	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 #803H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
5,100.0	5,100.0	5,072.4	5,053.5	7.3	18.1	-89.59	2.6	-363.3	366.3	343.6	22.67	16.153		
5,200.0	5,200.0	5,171.5	5,151.9	7.4	18.5	-89.58	2.8	-375.9	378.9	355.9	23.08	16.416		
5,300.0	5,300.0	5,270.7	5,250.3	7.5	18.8	-89.57	2.9	-388.5	391.6	368.1	23.50	16.668		
5,400.0	5,400.0	5,369.9	5,348.7	7.6	19.2	-89.57	3.0	-401.0	404.3	380.4	23.91	16.912		
5,500.0	5,500.0	5,469.1	5,447.1	7.8	19.6	-89.56	3.1	-413.6	417.0	392.7	24.32	17.147		
5,600.0	5,600.0	5,568.5	5,545.7	7.8	19.9	0.44	3.3	-426.2	428.0	403.2	24.74	17.302		
5,700.0	5,699.8	5,668.2	5,644.6	7.9	20.3	0.45	3.4	-438.9	435.5	410.3	25.15	17.312		
5,788.0	5,787.5	5,756.1	5,731.8	7.9	20.6	0.46	3.5	-450.1	439.2	413.6	25.52	17.206		
5,800.0	5,799.5	5,768.1	5,743.7	7.9	20.6	0.46	3.5	-451.6	439.5	413.9	25.57	17.184		
5,900.0	5,898.9	5,868.1	5,842.8	8.0	21.0	0.48	3.7	-464.3	442.2	416.2	26.00	17.008		
6,000.0	5,998.4	5,968.1	5,942.0	8.0	21.4	0.49	3.8	-477.0	444.8	418.4	26.42	16.835		
6,100.0	6,097.9	6,068.0	6,041.1	8.0	21.7	0.50	3.9	-489.6	447.5	420.6	26.85	16.665		
6,200.0	6,197.4	6,168.0	6,140.3	8.1	22.1	0.52	4.1	-502.3	450.2	422.9	27.28	16.500		
6,300.0	6,296.9	6,268.0	6,239.5	8.1	22.4	0.53	4.2	-515.0	452.8	425.1	27.72	16.338		
6,400.0	6,396.4	6,367.9	6,338.6	8.2	22.8	0.54	4.3	-527.7	455.5	427.4	28.15	16.180		
6,500.0	6,495.9	6,467.9	6,437.8	8.2	23.2	0.56	4.5	-540.4	458.2	429.6	28.59	16.026		
6,600.0	6,595.4	6,567.9	6,536.9	8.3	23.5	0.57	4.6	-553.1	460.9	431.8	29.03	15.874		
6,700.0	6,694.9	6,667.8	6,636.1	8.4	23.9	0.58	4.7	-565.8	463.5	434.1	29.47	15.727		
6,800.0	6,794.4	6,767.8	6,735.2	8.4	24.3	0.60	4.8	-578.4	466.2	436.3	29.92	15.582		
6,900.0	6,893.9	6,867.7	6,834.4	8.5	24.6	0.61	5.0	-591.1	468.9	438.5	30.37	15.441		
7,000.0	6,993.4	6,967.7	6,933.6	8.5	25.0	0.62	5.1	-603.8	471.5	440.7	30.81	15.303		
7,100.0	7,092.9	7,067.7	7,032.7	8.6	25.4	0.63	5.2	-616.5	474.2	443.0	31.26	15.168		
7,200.0	7,192.4	7,167.6	7,131.9	8.7	25.7	0.65	5.4	-629.2	476.9	445.2	31.72	15.037		
7,300.0	7,291.9	7,267.6	7,231.0	8.7	26.1	0.66	5.5	-641.9	479.6	447.4	32.17	14.908		
7,400.0	7,391.4	7,367.6	7,330.2	8.8	26.4	0.67	5.6	-654.6	482.2	449.6	32.62	14.782		
7,500.0	7,490.9	7,467.5	7,429.3	8.9	26.8	0.68	5.8	-667.2	484.9	451.8	33.08	14.659		
7,600.0	7,590.4	7,567.5	7,528.5	8.9	27.2	0.69	5.9	-679.9	487.6	454.0	33.54	14.538		
7,700.0	7,689.9	7,667.5	7,627.6	9.0	27.5	0.70	6.0	-692.6	490.3	456.3	34.00	14.420		
7,800.0	7,789.4	7,767.4	7,726.8	9.1	27.9	0.72	6.2	-705.3	492.9	458.5	34.46	14.305		
7,900.0	7,888.9	7,867.4	7,826.0	9.2	28.3	0.73	6.3	-718.0	495.6	460.7	34.92	14.193		
8,000.0	7,988.3	7,967.4	7,925.1	9.3	28.6	0.74	6.4	-730.7	498.3	462.9	35.38	14.083		
8,100.0	8,087.8	8,067.3	8,024.3	9.3	29.0	0.75	6.5	-743.4	500.9	465.1	35.85	13.975		
8,200.0	8,187.3	8,167.3	8,123.4	9.4	29.4	0.76	6.7	-756.0	503.6	467.3	36.31	13.869		
8,300.0	8,286.8	8,267.2	8,222.6	9.5	29.7	0.77	6.8	-768.7	506.3	469.5	36.78	13.766		
8,400.0	8,386.3	8,367.2	8,321.7	9.6	30.1	0.78	6.9	-781.4	509.0	471.7	37.25	13.665		
8,500.0	8,485.8	8,467.2	8,420.9	9.7	30.5	0.79	7.1	-794.1	511.6	473.9	37.71	13.567		
8,600.0	8,585.3	8,567.1	8,520.0	9.8	30.8	0.80	7.2	-806.8	514.3	476.1	38.18	13.470		
8,700.0	8,684.8	8,667.1	8,619.2	9.8	31.2	0.81	7.3	-819.5	517.0	478.3	38.65	13.375		
8,800.0	8,784.3	8,767.1	8,718.4	9.9	31.6	0.82	7.5	-832.2	519.7	480.5	39.12	13.283		
8,900.0	8,883.8	8,867.0	8,817.5	10.0	31.9	0.83	7.6	-844.8	522.3	482.7	39.59	13.192		
9,000.0	8,983.3	8,967.0	8,916.7	10.1	32.3	0.84	7.7	-857.5	525.0	484.9	40.07	13.103		
9,100.0	9,082.8	9,067.0	9,015.8	10.2	32.7	0.85	7.9	-870.2	527.7	487.1	40.54	13.016		
9,200.0	9,182.3	9,166.9	9,115.0	10.3	33.0	0.86	8.0	-882.9	530.3	489.3	41.01	12.931		
9,300.0	9,281.8	9,266.9	9,214.1	10.4	33.4	0.87	8.1	-895.6	533.0	491.5	41.49	12.847		
9,400.0	9,381.3	9,366.9	9,313.3	10.5	33.8	0.88	8.2	-908.3	535.7	493.7	41.96	12.765		
9,500.0	9,480.8	9,466.8	9,412.4	10.6	34.1	0.89	8.4	-921.0	538.4	495.9	42.44	12.685		
9,600.0	9,580.3	9,566.8	9,511.6	10.7	34.5	0.90	8.5	-933.6	541.0	498.1	42.92	12.607		
9,700.0	9,679.8	9,666.7	9,610.8	10.8	34.9	0.91	8.6	-946.3	543.7	500.3	43.39	12.530		
9,800.0	9,779.3	9,766.7	9,709.9	10.9	35.2	0.92	8.8	-959.0	546.4	502.5	43.87	12.454		
9,900.0	9,878.8	9,866.7	9,809.1	11.0	35.6	0.93	8.9	-971.7	549.1	504.7	44.35	12.380		
10,000.0	9,978.2	9,966.6	9,908.2	11.1	36.0	0.94	9.0	-984.4	551.7	506.9	44.83	12.307		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	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 #803H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
10,100.0	10,077.7	10,066.6	10,007.4	11.2	36.3	0.95	9.2	-997.1	554.4	509.1	45.31	12.236	
10,200.0	10,177.2	10,166.6	10,106.5	11.3	36.7	0.96	9.3	-1,009.8	557.1	511.3	45.79	12.166	
10,276.7	10,253.6	10,243.3	10,182.6	11.4	37.0	0.96	9.4	-1,019.5	559.1	513.1	46.07	12.136	
10,300.0	10,276.7	10,266.5	10,205.7	11.4	37.1	26.78	9.4	-1,022.4	559.8	513.6	46.16	12.126	
10,325.0	10,301.5	10,291.4	10,230.4	11.4	37.2	46.24	9.5	-1,025.6	560.5	514.2	46.27	12.114	
10,350.0	10,326.2	10,316.2	10,255.0	11.4	37.3	58.11	9.5	-1,028.7	561.2	514.9	46.38	12.100	
10,375.0	10,350.7	10,337.4	10,276.0	11.4	37.3	65.57	9.4	-1,031.5	562.1	515.6	46.49	12.091	
10,400.0	10,374.9	10,356.6	10,295.0	11.4	37.4	70.53	8.6	-1,034.1	563.3	516.7	46.59	12.089	
10,425.0	10,398.8	10,375.0	10,313.1	11.4	37.5	74.03	7.1	-1,036.9	564.8	518.1	46.70	12.093	
10,450.0	10,422.2	10,395.1	10,332.8	11.4	37.6	76.66	4.7	-1,040.1	566.6	519.8	46.82	12.102	
10,475.0	10,445.3	10,414.5	10,351.7	11.4	37.6	78.68	1.7	-1,043.4	568.7	521.8	46.94	12.116	
10,500.0	10,467.8	10,433.9	10,370.4	11.5	37.7	80.28	-2.1	-1,046.9	571.2	524.1	47.06	12.136	
10,525.0	10,489.7	10,453.5	10,389.1	11.5	37.8	81.57	-6.7	-1,050.6	574.0	526.8	47.19	12.162	
10,550.0	10,510.9	10,475.0	10,409.3	11.5	37.8	82.68	-12.6	-1,054.9	577.1	529.8	47.33	12.192	
10,575.0	10,531.5	10,493.0	10,425.9	11.5	37.9	83.52	-18.2	-1,058.7	580.5	533.0	47.47	12.230	
10,600.0	10,551.3	10,512.8	10,444.1	11.5	38.0	84.26	-25.1	-1,063.0	584.3	536.7	47.61	12.272	
10,625.0	10,570.3	10,532.9	10,462.0	11.5	38.0	84.88	-32.8	-1,067.6	588.3	540.6	47.75	12.320	
10,650.0	10,588.4	10,553.0	10,479.6	11.6	38.1	85.40	-41.3	-1,072.3	592.7	544.8	47.90	12.373	
10,675.0	10,605.6	10,573.3	10,497.0	11.6	38.2	85.83	-50.6	-1,077.2	597.3	549.3	48.05	12.432	
10,700.0	10,621.8	10,593.8	10,514.0	11.6	38.2	86.19	-60.7	-1,082.3	602.3	554.1	48.20	12.495	
10,725.0	10,637.0	10,614.4	10,530.7	11.6	38.3	86.49	-71.5	-1,087.6	607.5	559.2	48.36	12.564	
10,750.0	10,651.2	10,635.2	10,547.0	11.7	38.4	86.73	-83.2	-1,093.1	613.1	564.5	48.51	12.637	
10,775.0	10,664.3	10,656.2	10,562.9	11.7	38.4	86.91	-95.8	-1,098.7	618.8	570.2	48.67	12.716	
10,800.0	10,676.2	10,677.4	10,578.3	11.7	38.5	87.04	-109.1	-1,104.6	624.9	576.1	48.82	12.798	
10,825.0	10,687.1	10,698.8	10,593.3	11.8	38.6	87.13	-123.3	-1,110.6	631.2	582.2	48.98	12.886	
10,850.0	10,696.7	10,720.5	10,607.7	11.8	38.6	87.18	-138.3	-1,116.8	637.7	588.5	49.14	12.977	
10,875.0	10,705.1	10,742.5	10,621.5	11.8	38.7	87.20	-154.1	-1,123.2	644.4	595.1	49.29	13.073	
10,900.0	10,712.2	10,764.8	10,634.7	11.9	38.7	87.18	-170.8	-1,129.7	651.3	601.9	49.44	13.172	
10,925.0	10,718.1	10,787.4	10,647.3	11.9	38.8	87.12	-188.4	-1,136.4	658.4	608.8	49.60	13.275	
10,950.0	10,722.8	10,810.4	10,659.1	11.9	38.9	87.04	-206.9	-1,143.3	665.7	615.9	49.74	13.382	
10,975.0	10,726.1	10,833.8	10,670.2	12.0	38.9	86.93	-226.3	-1,150.3	673.1	623.2	49.89	13.492	
11,000.0	10,728.2	10,857.6	10,680.4	12.0	39.0	86.80	-246.6	-1,157.5	680.6	630.6	50.03	13.604	
11,027.1	10,729.0	10,884.0	10,690.4	12.0	39.0	86.63	-269.5	-1,165.4	688.9	638.7	50.18	13.729	
11,100.0	10,729.0	10,960.0	10,711.8	12.2	39.2	88.55	-338.7	-1,188.2	711.4	660.8	50.55	14.071	
11,200.0	10,729.0	11,075.5	10,722.0	12.4	39.4	89.44	-448.7	-1,221.3	740.7	689.7	51.03	14.516	
11,300.0	10,729.0	11,206.7	10,722.0	12.6	39.6	89.47	-575.7	-1,254.2	766.4	714.9	51.51	14.879	
11,400.0	10,729.0	11,340.8	10,722.0	12.9	39.9	89.49	-706.9	-1,281.8	787.6	735.5	52.06	15.128	
11,500.0	10,729.0	11,477.4	10,722.0	13.3	40.2	89.50	-841.7	-1,303.5	804.1	751.4	52.67	15.267	
11,600.0	10,729.0	11,615.8	10,722.0	13.8	40.5	89.51	-979.3	-1,318.9	815.9	762.6	53.33	15.299	
11,700.0	10,729.0	11,755.5	10,722.0	14.3	40.8	89.52	-1,118.7	-1,327.8	822.9	768.8	54.03	15.229	
11,800.0	10,729.0	11,892.9	10,722.0	14.9	41.1	89.52	-1,256.1	-1,329.8	824.9	770.2	54.77	15.062	
11,900.0	10,729.0	11,992.9	10,722.0	15.5	41.3	89.52	-1,356.1	-1,329.2	824.9	769.3	55.66	14.820	
12,000.0	10,729.0	12,092.9	10,722.0	16.1	41.6	89.52	-1,456.1	-1,328.5	824.9	768.3	56.59	14.576	
12,100.0	10,729.0	12,192.9	10,722.0	16.8	41.9	89.52	-1,556.0	-1,327.9	824.9	767.4	57.56	14.332	
12,200.0	10,729.0	12,292.9	10,722.0	17.5	42.1	89.52	-1,656.0	-1,327.2	824.9	766.4	58.55	14.089	
12,300.0	10,729.0	12,392.9	10,722.0	18.2	42.4	89.52	-1,756.0	-1,326.6	824.9	765.3	59.57	13.847	
12,400.0	10,729.0	12,492.9	10,722.0	18.9	42.8	89.52	-1,856.0	-1,325.9	824.9	764.3	60.62	13.607	
12,500.0	10,729.0	12,592.9	10,722.0	19.6	43.1	89.52	-1,956.0	-1,325.3	824.9	763.2	61.70	13.369	
12,600.0	10,729.0	12,692.9	10,722.0	20.4	43.4	89.52	-2,056.0	-1,324.6	824.9	762.1	62.80	13.135	
12,700.0	10,729.0	12,792.9	10,722.0	21.1	43.8	89.52	-2,156.0	-1,324.0	824.9	760.9	63.92	12.904	
12,800.0	10,729.0	12,892.9	10,722.0	21.9	44.2	89.52	-2,256.0	-1,323.3	824.8	759.8	65.06	12.677	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	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 #803H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis 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	
12,900.0	10,729.0	12,992.9	10,722.0	22.7	44.5	89.52	-2,356.0	-1,322.7	824.8	758.6	66.23	12.454		
13,000.0	10,729.0	13,092.9	10,722.0	23.4	44.9	89.52	-2,456.0	-1,322.0	824.8	757.4	67.41	12.236		
13,100.0	10,729.0	13,192.9	10,722.0	24.2	45.3	89.52	-2,556.0	-1,321.4	824.8	756.2	68.61	12.021		
13,200.0	10,729.0	13,292.9	10,722.0	25.0	45.8	89.52	-2,656.0	-1,320.7	824.8	755.0	69.83	11.811		
13,300.0	10,729.0	13,392.9	10,722.0	25.8	46.2	89.52	-2,756.0	-1,320.1	824.8	753.7	71.07	11.606		
13,400.0	10,729.0	13,492.9	10,722.0	26.6	46.6	89.52	-2,856.0	-1,319.4	824.8	752.5	72.32	11.405		
13,500.0	10,729.0	13,592.9	10,722.0	27.4	47.1	89.52	-2,956.0	-1,318.8	824.8	751.2	73.59	11.208		
13,600.0	10,729.0	13,692.9	10,722.0	28.2	47.5	89.52	-3,056.0	-1,318.1	824.8	749.9	74.87	11.016		
13,700.0	10,729.0	13,792.9	10,722.0	29.0	48.0	89.52	-3,156.0	-1,317.5	824.8	748.6	76.16	10.829		
13,800.0	10,729.0	13,892.9	10,722.0	29.8	48.5	89.52	-3,256.0	-1,316.8	824.7	747.3	77.47	10.646		
13,900.0	10,729.0	13,992.9	10,722.0	30.7	49.0	89.52	-3,356.0	-1,316.2	824.7	745.9	78.79	10.467		
14,000.0	10,729.0	14,092.9	10,722.0	31.5	49.5	89.52	-3,456.0	-1,315.5	824.7	744.6	80.13	10.293		
14,100.0	10,729.0	14,192.9	10,722.0	32.3	50.0	89.52	-3,556.0	-1,314.9	824.7	743.2	81.47	10.122		
14,200.0	10,729.0	14,292.9	10,722.0	33.1	50.5	89.52	-3,656.0	-1,314.2	824.7	741.9	82.83	9.956		
14,300.0	10,729.0	14,392.9	10,722.0	33.9	51.1	89.52	-3,756.0	-1,313.6	824.7	740.5	84.20	9.795		
14,400.0	10,729.0	14,492.9	10,722.0	34.8	51.6	89.52	-3,856.0	-1,312.9	824.7	739.1	85.58	9.637		
14,500.0	10,729.0	14,592.9	10,722.0	35.6	52.2	89.52	-3,956.0	-1,312.3	824.7	737.7	86.97	9.483		
14,600.0	10,729.0	14,692.9	10,722.0	36.4	52.7	89.52	-4,056.0	-1,311.6	824.7	736.3	88.37	9.332		
14,700.0	10,729.0	14,792.9	10,722.0	37.2	53.3	89.52	-4,156.0	-1,311.0	824.7	734.9	89.77	9.186		
14,800.0	10,729.0	14,892.9	10,722.0	38.1	53.9	89.52	-4,256.0	-1,310.3	824.6	733.4	91.19	9.043		
14,900.0	10,729.0	14,992.9	10,722.0	38.9	54.5	89.52	-4,356.0	-1,309.7	824.6	732.0	92.62	8.904		
15,000.0	10,729.0	15,092.9	10,722.0	39.7	55.1	89.52	-4,456.0	-1,309.0	824.6	730.6	94.05	8.768		
15,100.0	10,729.0	15,192.9	10,722.0	40.6	55.6	89.52	-4,556.0	-1,308.4	824.6	729.1	95.49	8.635		
15,200.0	10,729.0	15,292.9	10,722.0	41.4	56.3	89.52	-4,656.0	-1,307.7	824.6	727.7	96.94	8.506		
15,300.0	10,729.0	15,392.9	10,722.0	42.3	56.9	89.52	-4,756.0	-1,307.1	824.6	726.2	98.40	8.380		
15,400.0	10,729.0	15,492.9	10,722.0	43.1	57.5	89.52	-4,856.0	-1,306.4	824.6	724.7	99.86	8.257		
15,500.0	10,729.0	15,592.9	10,722.0	43.9	58.1	89.52	-4,956.0	-1,305.8	824.6	723.2	101.34	8.137		
15,600.0	10,729.0	15,692.9	10,722.0	44.8	58.7	89.52	-5,056.0	-1,305.1	824.6	721.7	102.81	8.020		
15,700.0	10,729.0	15,792.9	10,722.0	45.6	59.4	89.52	-5,156.0	-1,304.5	824.5	720.2	104.30	7.906		
15,800.0	10,729.0	15,892.9	10,722.0	46.5	60.0	89.52	-5,256.0	-1,303.8	824.5	718.7	105.79	7.794		
15,900.0	10,729.0	15,992.9	10,722.0	47.3	60.7	89.52	-5,356.0	-1,303.2	824.5	717.2	107.29	7.685		
16,000.0	10,729.0	16,092.9	10,722.0	48.1	61.3	89.52	-5,456.0	-1,302.5	824.5	715.7	108.79	7.579		
16,100.0	10,729.0	16,192.9	10,722.0	49.0	62.0	89.52	-5,556.0	-1,301.9	824.5	714.2	110.30	7.475		
16,200.0	10,729.0	16,292.9	10,722.0	49.8	62.6	89.52	-5,656.0	-1,301.2	824.5	712.7	111.81	7.374		
16,300.0	10,729.0	16,392.9	10,722.0	50.7	63.3	89.52	-5,756.0	-1,300.6	824.5	711.2	113.33	7.275		
16,400.0	10,729.0	16,492.9	10,722.0	51.5	64.0	89.52	-5,856.0	-1,299.9	824.5	709.6	114.85	7.178		
16,500.0	10,729.0	16,592.9	10,722.0	52.4	64.6	89.52	-5,956.0	-1,299.2	824.5	708.1	116.38	7.084		
16,600.0	10,729.0	16,692.9	10,722.0	53.2	65.3	89.52	-6,056.0	-1,298.6	824.5	706.5	117.92	6.992		
16,700.0	10,729.0	16,792.9	10,722.0	54.1	66.0	89.52	-6,156.0	-1,297.9	824.4	705.0	119.45	6.902		
16,800.0	10,729.0	16,892.9	10,722.0	54.9	66.7	89.52	-6,255.9	-1,297.3	824.4	703.4	121.00	6.814		
16,900.0	10,729.0	16,992.9	10,722.0	55.8	67.4	89.52	-6,355.9	-1,296.6	824.4	701.9	122.54	6.728		
17,000.0	10,729.0	17,092.9	10,722.0	56.6	68.1	89.52	-6,455.9	-1,296.0	824.4	700.3	124.10	6.643		
17,100.0	10,729.0	17,192.9	10,722.0	57.4	68.8	89.52	-6,555.9	-1,295.3	824.4	698.8	125.65	6.561		
17,200.0	10,729.0	17,292.9	10,722.0	58.3	69.5	89.52	-6,655.9	-1,294.7	824.4	697.2	127.21	6.481		
17,300.0	10,729.0	17,392.9	10,722.0	59.1	70.2	89.52	-6,755.9	-1,294.0	824.4	695.6	128.77	6.402		
17,400.0	10,729.0	17,492.9	10,722.0	60.0	70.9	89.52	-6,855.9	-1,293.4	824.4	694.0	130.34	6.325		
17,500.0	10,729.0	17,592.9	10,722.0	60.8	71.6	89.52	-6,955.9	-1,292.7	824.4	692.5	131.91	6.250		
17,600.0	10,729.0	17,692.9	10,722.0	61.7	72.3	89.52	-7,055.9	-1,292.1	824.4	690.9	133.48	6.176		
17,700.0	10,729.0	17,792.9	10,722.0	62.5	73.0	89.52	-7,155.9	-1,291.4	824.3	689.3	135.06	6.104		
17,800.0	10,729.0	17,892.9	10,722.0	63.4	73.8	89.52	-7,255.9	-1,290.8	824.3	687.7	136.64	6.033		
17,900.0	10,729.0	17,992.9	10,722.0	64.2	74.5	89.52	-7,355.9	-1,290.1	824.3	686.1	138.22	5.964		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	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 #803H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
(usft)									(usft)	(usft)				
18,000.0	10,729.0	18,092.9	10,722.0	65.1	75.2	89.52	-7,455.9	-1,289.5	824.3	684.5	139.81	5.896		
18,100.0	10,729.0	18,192.9	10,722.0	66.0	76.0	89.52	-7,555.9	-1,288.8	824.3	682.9	141.40	5.830		
18,200.0	10,729.0	18,292.9	10,722.0	66.8	76.7	89.52	-7,655.9	-1,288.2	824.3	681.3	142.99	5.765		
18,300.0	10,729.0	18,392.9	10,722.0	67.7	77.4	89.52	-7,755.9	-1,287.5	824.3	679.7	144.58	5.701		
18,400.0	10,729.0	18,492.9	10,722.0	68.5	78.2	89.51	-7,855.9	-1,286.9	824.3	678.1	146.18	5.639		
18,500.0	10,729.0	18,592.9	10,722.0	69.4	78.9	89.51	-7,955.9	-1,286.2	824.3	676.5	147.78	5.578		
18,600.0	10,729.0	18,692.9	10,722.0	70.2	79.7	89.51	-8,055.9	-1,285.6	824.2	674.9	149.38	5.518		
18,700.0	10,729.0	18,792.9	10,722.0	71.1	80.4	89.51	-8,155.9	-1,284.9	824.2	673.3	150.99	5.459		
18,800.0	10,729.0	18,892.9	10,722.0	71.9	81.1	89.51	-8,255.9	-1,284.3	824.2	671.6	152.59	5.402		
18,900.0	10,729.0	18,992.9	10,722.0	72.8	81.9	89.51	-8,355.9	-1,283.6	824.2	670.0	154.20	5.345		
19,000.0	10,729.0	19,092.9	10,722.0	73.6	82.7	89.51	-8,455.9	-1,283.0	824.2	668.4	155.81	5.290		
19,100.0	10,729.0	19,192.9	10,722.0	74.5	83.4	89.51	-8,555.9	-1,282.3	824.2	666.8	157.43	5.235		
19,200.0	10,729.0	19,292.9	10,722.0	75.3	84.2	89.51	-8,655.9	-1,281.7	824.2	665.1	159.04	5.182		
19,300.0	10,729.0	19,392.9	10,722.0	76.2	84.9	89.51	-8,755.9	-1,281.0	824.2	663.5	160.66	5.130		
19,400.0	10,729.0	19,492.9	10,722.0	77.0	85.7	89.51	-8,855.9	-1,280.4	824.2	661.9	162.28	5.079		
19,500.0	10,729.0	19,592.9	10,722.0	77.9	86.4	89.51	-8,955.9	-1,279.7	824.2	660.3	163.90	5.028		
19,600.0	10,729.0	19,692.9	10,722.0	78.7	87.2	89.51	-9,055.9	-1,279.1	824.1	658.6	165.53	4.979		
19,700.0	10,729.0	19,792.9	10,722.0	79.6	88.0	89.51	-9,155.9	-1,278.4	824.1	657.0	167.15	4.930		
19,800.0	10,729.0	19,892.9	10,722.0	80.5	88.8	89.51	-9,255.9	-1,277.8	824.1	655.3	168.78	4.883		
19,900.0	10,729.0	19,992.9	10,722.0	81.3	89.5	89.51	-9,355.9	-1,277.1	824.1	653.7	170.41	4.836		
20,000.0	10,729.0	20,092.9	10,722.0	82.2	90.3	89.51	-9,455.9	-1,276.5	824.1	652.1	172.04	4.790		
20,100.0	10,729.0	20,192.9	10,722.0	83.0	91.1	89.51	-9,555.9	-1,275.8	824.1	650.4	173.67	4.745		
20,200.0	10,729.0	20,292.9	10,722.0	83.9	91.8	89.51	-9,655.9	-1,275.2	824.1	648.8	175.31	4.701		
20,300.0	10,729.0	20,392.9	10,722.0	84.7	92.6	89.51	-9,755.9	-1,274.5	824.1	647.1	176.94	4.657		
20,400.0	10,729.0	20,492.9	10,722.0	85.6	93.4	89.51	-9,855.9	-1,273.9	824.1	645.5	178.58	4.615		
20,500.0	10,729.0	20,592.9	10,722.0	86.4	94.2	89.51	-9,955.9	-1,273.2	824.1	643.8	180.22	4.573		
20,600.0	10,729.0	20,692.9	10,722.0	87.3	95.0	89.51	-10,055.9	-1,272.6	824.0	642.2	181.86	4.531		
20,700.0	10,729.0	20,792.9	10,722.0	88.1	95.7	89.51	-10,155.9	-1,271.9	824.0	640.5	183.50	4.491		
20,770.9	10,729.0	20,863.7	10,722.0	88.6	96.3	89.51	-10,226.7	-1,271.5	824.0	639.5	184.49	4.466 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

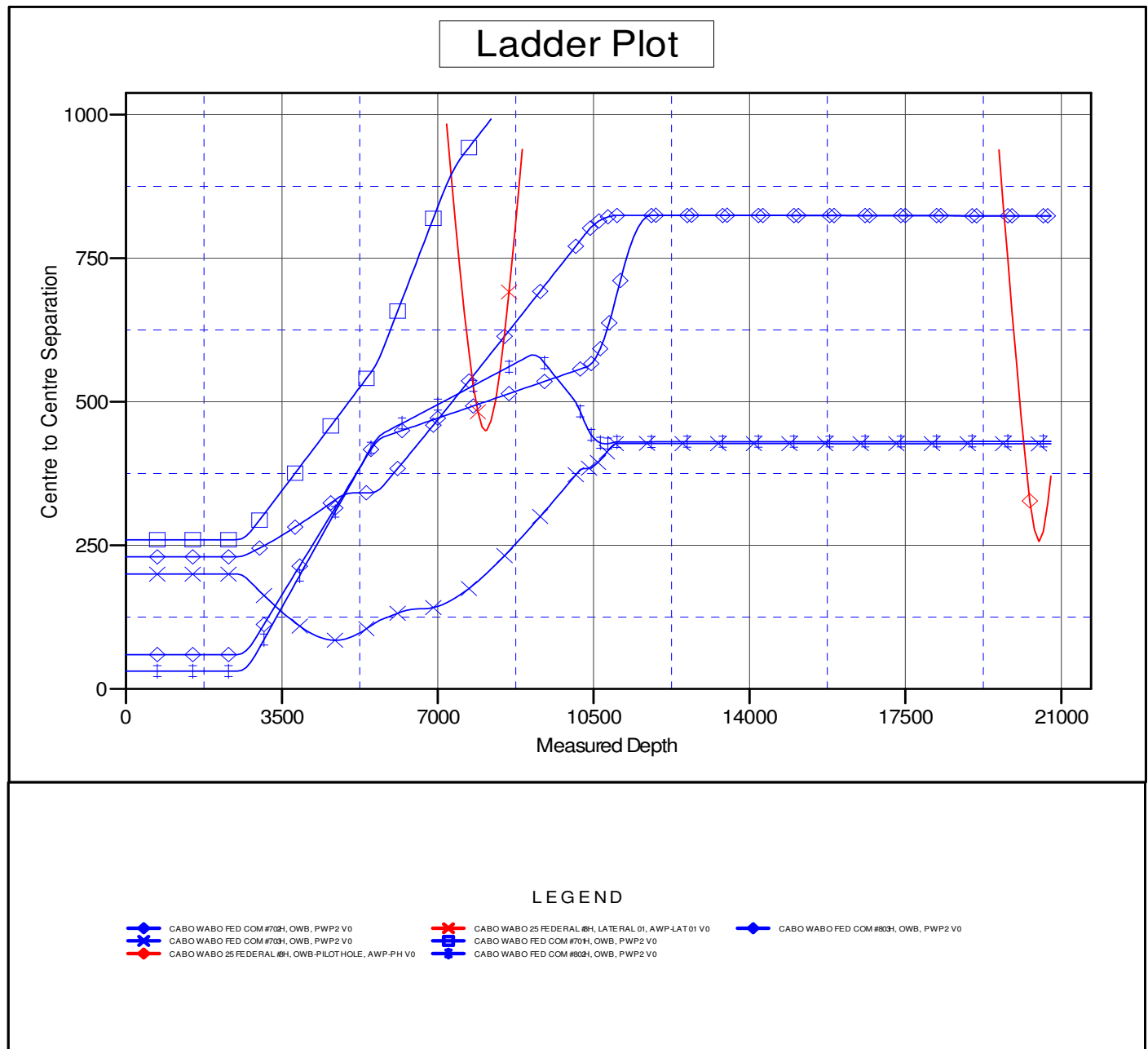
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3170.0usft (P 84)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #801H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.21°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3170.0usft (P 84)

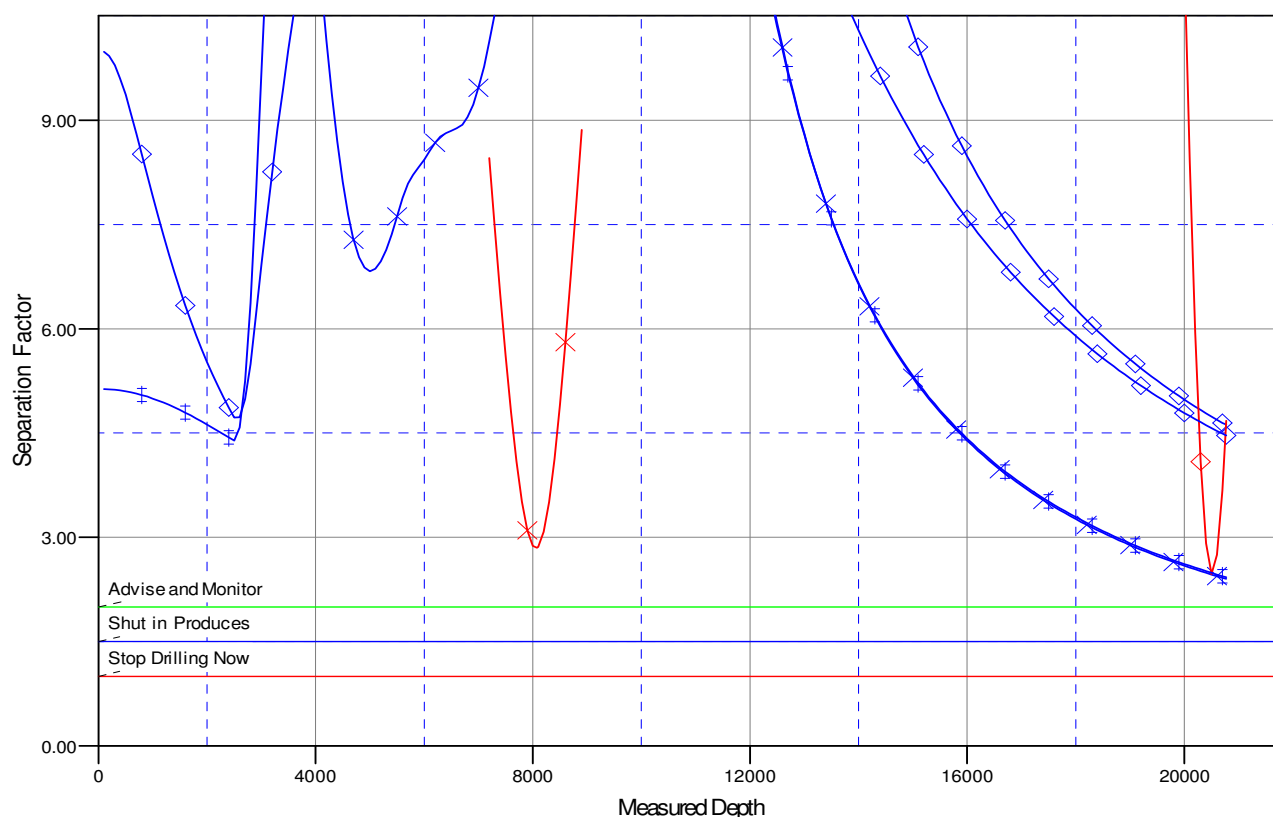
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #801H

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

Grid Convergence at Surface is: 0.21°

Separation Factor Plot**LEGEND**

CABO WABO FED COM #702H, OWB, PWP2 V0	CABO WABO 25 FEDERAL #8H, LATERAL 01, AWP-LAT 01 V0	CABO WABO FED COM #803H, OWB, PWP2 V0
CABO WABO FED COM #703H, OWB, PWP2 V0	CABO WABO FED COM #701H, OWB, PWP2 V0	
CABO WABO 25 FEDERAL #8H, OWB-PILOTHOLE, AWP-PH V0	CABO WABO FED COM #802H, OWB, PWP2 V0	

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

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COMPASS 5000.15 Build 91E

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #801H

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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 #801H			
Well Position	+N/-S	0.0 usft	Northing:	408,374.17 usft
	+E/-W	0.0 usft	Easting:	624,065.42 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 7' 19.570 N
			Longitude:	103° 55' 57.306 W
			Ground Level:	3,145.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	10/12/2021	6.66	59.76	47,569.88644623

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	182.51	

Survey Tool Program	Date	9/9/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,253.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,253.0	20,770.2	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	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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)
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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)	
Start Build 2.00										
5,600.0	2.00	270.00	5,600.0	0.0	-1.7	0.1	2.00	2.00	0.00	
5,700.0	4.00	270.00	5,699.8	0.0	-7.0	0.3	2.00	2.00	0.00	
5,788.0	5.76	270.00	5,787.5	0.0	-14.5	0.6	2.00	2.00	0.00	
Start 4488.7 hold at 5788.0 MD										
5,800.0	5.76	270.00	5,799.5	0.0	-15.7	0.7	0.00	0.00	0.00	
5,900.0	5.76	270.00	5,898.9	0.0	-25.7	1.1	0.00	0.00	0.00	
6,000.0	5.76	270.00	5,998.4	0.0	-35.7	1.6	0.00	0.00	0.00	
6,100.0	5.76	270.00	6,097.9	0.0	-45.8	2.0	0.00	0.00	0.00	
6,200.0	5.76	270.00	6,197.4	0.0	-55.8	2.4	0.00	0.00	0.00	
6,300.0	5.76	270.00	6,296.9	0.0	-65.8	2.9	0.00	0.00	0.00	
6,400.0	5.76	270.00	6,396.4	0.0	-75.9	3.3	0.00	0.00	0.00	
6,500.0	5.76	270.00	6,495.9	0.0	-85.9	3.8	0.00	0.00	0.00	
6,600.0	5.76	270.00	6,595.4	0.0	-96.0	4.2	0.00	0.00	0.00	
6,700.0	5.76	270.00	6,694.9	0.0	-106.0	4.6	0.00	0.00	0.00	
6,800.0	5.76	270.00	6,794.4	0.0	-116.0	5.1	0.00	0.00	0.00	
6,900.0	5.76	270.00	6,893.9	0.0	-126.1	5.5	0.00	0.00	0.00	
7,000.0	5.76	270.00	6,993.4	0.0	-136.1	6.0	0.00	0.00	0.00	
7,100.0	5.76	270.00	7,092.9	0.0	-146.1	6.4	0.00	0.00	0.00	
7,200.0	5.76	270.00	7,192.4	0.0	-156.2	6.8	0.00	0.00	0.00	
7,300.0	5.76	270.00	7,291.9	0.0	-166.2	7.3	0.00	0.00	0.00	
7,400.0	5.76	270.00	7,391.4	0.0	-176.2	7.7	0.00	0.00	0.00	
7,500.0	5.76	270.00	7,490.9	0.0	-186.3	8.1	0.00	0.00	0.00	
7,600.0	5.76	270.00	7,590.4	0.0	-196.3	8.6	0.00	0.00	0.00	
7,700.0	5.76	270.00	7,689.9	0.0	-206.4	9.0	0.00	0.00	0.00	
7,800.0	5.76	270.00	7,789.4	0.0	-216.4	9.5	0.00	0.00	0.00	
7,900.0	5.76	270.00	7,888.9	0.0	-226.4	9.9	0.00	0.00	0.00	
8,000.0	5.76	270.00	7,988.3	0.0	-236.5	10.3	0.00	0.00	0.00	
8,100.0	5.76	270.00	8,087.8	0.0	-246.5	10.8	0.00	0.00	0.00	
8,200.0	5.76	270.00	8,187.3	0.0	-256.5	11.2	0.00	0.00	0.00	
8,300.0	5.76	270.00	8,286.8	0.0	-266.6	11.7	0.00	0.00	0.00	
8,400.0	5.76	270.00	8,386.3	0.0	-276.6	12.1	0.00	0.00	0.00	
8,500.0	5.76	270.00	8,485.8	0.0	-286.6	12.5	0.00	0.00	0.00	
8,600.0	5.76	270.00	8,585.3	0.0	-296.7	13.0	0.00	0.00	0.00	
8,700.0	5.76	270.00	8,684.8	0.0	-306.7	13.4	0.00	0.00	0.00	
8,800.0	5.76	270.00	8,784.3	0.0	-316.8	13.9	0.00	0.00	0.00	
8,900.0	5.76	270.00	8,883.8	0.0	-326.8	14.3	0.00	0.00	0.00	
9,000.0	5.76	270.00	8,983.3	0.0	-336.8	14.7	0.00	0.00	0.00	
9,100.0	5.76	270.00	9,082.8	0.0	-346.9	15.2	0.00	0.00	0.00	
9,200.0	5.76	270.00	9,182.3	0.0	-356.9	15.6	0.00	0.00	0.00	
9,300.0	5.76	270.00	9,281.8	0.0	-366.9	16.0	0.00	0.00	0.00	
9,400.0	5.76	270.00	9,381.3	0.0	-377.0	16.5	0.00	0.00	0.00	
9,500.0	5.76	270.00	9,480.8	0.0	-387.0	16.9	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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)
9,600.0	5.76	270.00	9,580.3	0.0	-397.0	17.4	0.00	0.00	0.00
9,700.0	5.76	270.00	9,679.8	0.0	-407.1	17.8	0.00	0.00	0.00
9,800.0	5.76	270.00	9,779.3	0.0	-417.1	18.2	0.00	0.00	0.00
9,900.0	5.76	270.00	9,878.8	0.0	-427.2	18.7	0.00	0.00	0.00
10,000.0	5.76	270.00	9,978.2	0.0	-437.2	19.1	0.00	0.00	0.00
10,100.0	5.76	270.00	10,077.7	0.0	-447.2	19.6	0.00	0.00	0.00
10,200.0	5.76	270.00	10,177.2	0.0	-457.3	20.0	0.00	0.00	0.00
10,276.7	5.76	270.00	10,253.6	0.0	-465.0	20.3	0.00	0.00	0.00
Start DLS 12.00 TFO -90.36									
10,300.0	6.38	244.03	10,276.7	-0.6	-467.3	21.0	12.00	2.68	-111.69
10,400.0	15.81	200.50	10,374.9	-15.8	-477.1	36.7	12.00	9.43	-43.53
10,500.0	27.32	190.89	10,467.8	-51.2	-486.2	72.5	12.00	11.51	-9.60
10,600.0	39.11	186.76	10,551.3	-105.3	-494.3	126.8	12.00	11.79	-4.13
10,700.0	50.99	184.32	10,621.8	-175.6	-501.0	197.4	12.00	11.88	-2.44
10,800.0	62.90	182.59	10,676.2	-259.1	-505.9	281.0	12.00	11.91	-1.73
10,900.0	74.83	181.20	10,712.2	-352.2	-509.0	374.1	12.00	11.93	-1.39
11,000.0	86.77	179.96	10,728.2	-450.7	-510.0	472.6	12.00	11.94	-1.24
11,027.1	90.00	179.63	10,729.0	-477.8	-509.9	499.6	12.00	11.94	-1.21
Start 9743.8 hold at 11027.1 MD									
11,100.0	90.00	179.63	10,729.0	-550.7	-509.4	572.5	0.00	0.00	0.00
11,200.0	90.00	179.63	10,729.0	-650.7	-508.7	672.3	0.00	0.00	0.00
11,300.0	90.00	179.63	10,729.0	-750.7	-508.1	772.2	0.00	0.00	0.00
11,400.0	90.00	179.63	10,729.0	-850.7	-507.5	872.1	0.00	0.00	0.00
11,500.0	90.00	179.63	10,729.0	-950.7	-506.8	972.0	0.00	0.00	0.00
11,600.0	90.00	179.63	10,729.0	-1,050.7	-506.2	1,071.8	0.00	0.00	0.00
11,700.0	90.00	179.63	10,729.0	-1,150.7	-505.5	1,171.7	0.00	0.00	0.00
11,800.0	90.00	179.63	10,729.0	-1,250.7	-504.9	1,271.6	0.00	0.00	0.00
11,900.0	90.00	179.63	10,729.0	-1,350.7	-504.3	1,371.5	0.00	0.00	0.00
12,000.0	90.00	179.63	10,729.0	-1,450.7	-503.6	1,471.3	0.00	0.00	0.00
12,100.0	90.00	179.63	10,729.0	-1,550.7	-503.0	1,571.2	0.00	0.00	0.00
12,200.0	90.00	179.63	10,729.0	-1,650.7	-502.3	1,671.1	0.00	0.00	0.00
12,300.0	90.00	179.63	10,729.0	-1,750.7	-501.7	1,770.9	0.00	0.00	0.00
12,400.0	90.00	179.63	10,729.0	-1,850.7	-501.1	1,870.8	0.00	0.00	0.00
12,500.0	90.00	179.63	10,729.0	-1,950.7	-500.4	1,970.7	0.00	0.00	0.00
12,600.0	90.00	179.63	10,729.0	-2,050.7	-499.8	2,070.6	0.00	0.00	0.00
12,700.0	90.00	179.63	10,729.0	-2,150.7	-499.1	2,170.4	0.00	0.00	0.00
12,800.0	90.00	179.63	10,729.0	-2,250.7	-498.5	2,270.3	0.00	0.00	0.00
12,900.0	90.00	179.63	10,729.0	-2,350.7	-497.9	2,370.2	0.00	0.00	0.00
13,000.0	90.00	179.63	10,729.0	-2,450.7	-497.2	2,470.1	0.00	0.00	0.00
13,100.0	90.00	179.63	10,729.0	-2,550.7	-496.6	2,569.9	0.00	0.00	0.00
13,200.0	90.00	179.63	10,729.0	-2,650.7	-495.9	2,669.8	0.00	0.00	0.00
13,300.0	90.00	179.63	10,729.0	-2,750.7	-495.3	2,769.7	0.00	0.00	0.00
13,400.0	90.00	179.63	10,729.0	-2,850.7	-494.7	2,869.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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)
13,500.0	90.00	179.63	10,729.0	-2,950.7	-494.0	2,969.4	0.00	0.00	0.00
13,600.0	90.00	179.63	10,729.0	-3,050.7	-493.4	3,069.3	0.00	0.00	0.00
13,700.0	90.00	179.63	10,729.0	-3,150.7	-492.7	3,169.2	0.00	0.00	0.00
13,800.0	90.00	179.63	10,729.0	-3,250.6	-492.1	3,269.1	0.00	0.00	0.00
13,900.0	90.00	179.63	10,729.0	-3,350.6	-491.5	3,368.9	0.00	0.00	0.00
14,000.0	90.00	179.63	10,729.0	-3,450.6	-490.8	3,468.8	0.00	0.00	0.00
14,100.0	90.00	179.63	10,729.0	-3,550.6	-490.2	3,568.7	0.00	0.00	0.00
14,200.0	90.00	179.63	10,729.0	-3,650.6	-489.6	3,668.6	0.00	0.00	0.00
14,300.0	90.00	179.63	10,729.0	-3,750.6	-488.9	3,768.4	0.00	0.00	0.00
14,400.0	90.00	179.63	10,729.0	-3,850.6	-488.3	3,868.3	0.00	0.00	0.00
14,500.0	90.00	179.63	10,729.0	-3,950.6	-487.6	3,968.2	0.00	0.00	0.00
14,600.0	90.00	179.63	10,729.0	-4,050.6	-487.0	4,068.1	0.00	0.00	0.00
14,700.0	90.00	179.63	10,729.0	-4,150.6	-486.4	4,167.9	0.00	0.00	0.00
14,800.0	90.00	179.63	10,729.0	-4,250.6	-485.7	4,267.8	0.00	0.00	0.00
14,900.0	90.00	179.63	10,729.0	-4,350.6	-485.1	4,367.7	0.00	0.00	0.00
15,000.0	90.00	179.63	10,729.0	-4,450.6	-484.4	4,467.6	0.00	0.00	0.00
15,100.0	90.00	179.63	10,729.0	-4,550.6	-483.8	4,567.4	0.00	0.00	0.00
15,200.0	90.00	179.63	10,729.0	-4,650.6	-483.2	4,667.3	0.00	0.00	0.00
15,300.0	90.00	179.63	10,729.0	-4,750.6	-482.5	4,767.2	0.00	0.00	0.00
15,400.0	90.00	179.63	10,729.0	-4,850.6	-481.9	4,867.1	0.00	0.00	0.00
15,500.0	90.00	179.63	10,729.0	-4,950.6	-481.2	4,966.9	0.00	0.00	0.00
15,600.0	90.00	179.63	10,729.0	-5,050.6	-480.6	5,066.8	0.00	0.00	0.00
15,700.0	90.00	179.63	10,729.0	-5,150.6	-480.0	5,166.7	0.00	0.00	0.00
15,800.0	90.00	179.63	10,729.0	-5,250.6	-479.3	5,266.5	0.00	0.00	0.00
15,900.0	90.00	179.63	10,729.0	-5,350.6	-478.7	5,366.4	0.00	0.00	0.00
16,000.0	90.00	179.63	10,729.0	-5,450.6	-478.0	5,466.3	0.00	0.00	0.00
16,100.0	90.00	179.63	10,729.0	-5,550.6	-477.4	5,566.2	0.00	0.00	0.00
16,200.0	90.00	179.63	10,729.0	-5,650.6	-476.8	5,666.0	0.00	0.00	0.00
16,300.0	90.00	179.63	10,729.0	-5,750.6	-476.1	5,765.9	0.00	0.00	0.00
16,400.0	90.00	179.63	10,729.0	-5,850.6	-475.5	5,865.8	0.00	0.00	0.00
16,500.0	90.00	179.63	10,729.0	-5,950.6	-474.8	5,965.7	0.00	0.00	0.00
16,600.0	90.00	179.63	10,729.0	-6,050.6	-474.2	6,065.5	0.00	0.00	0.00
16,700.0	90.00	179.63	10,729.0	-6,150.6	-473.6	6,165.4	0.00	0.00	0.00
16,800.0	90.00	179.63	10,729.0	-6,250.6	-472.9	6,265.3	0.00	0.00	0.00
16,900.0	90.00	179.63	10,729.0	-6,350.6	-472.3	6,365.2	0.00	0.00	0.00
17,000.0	90.00	179.63	10,729.0	-6,450.6	-471.6	6,465.0	0.00	0.00	0.00
17,100.0	90.00	179.63	10,729.0	-6,550.6	-471.0	6,564.9	0.00	0.00	0.00
17,200.0	90.00	179.63	10,729.0	-6,650.6	-470.4	6,664.8	0.00	0.00	0.00
17,300.0	90.00	179.63	10,729.0	-6,750.6	-469.7	6,764.7	0.00	0.00	0.00
17,400.0	90.00	179.63	10,729.0	-6,850.6	-469.1	6,864.5	0.00	0.00	0.00
17,500.0	90.00	179.63	10,729.0	-6,950.6	-468.4	6,964.4	0.00	0.00	0.00
17,600.0	90.00	179.63	10,729.0	-7,050.6	-467.8	7,064.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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)
17,700.0	90.00	179.63	10,729.0	-7,150.6	-467.2	7,164.2	0.00	0.00	0.00
17,800.0	90.00	179.63	10,729.0	-7,250.6	-466.5	7,264.0	0.00	0.00	0.00
17,900.0	90.00	179.63	10,729.0	-7,350.6	-465.9	7,363.9	0.00	0.00	0.00
18,000.0	90.00	179.63	10,729.0	-7,450.6	-465.2	7,463.8	0.00	0.00	0.00
18,100.0	90.00	179.63	10,729.0	-7,550.6	-464.6	7,563.7	0.00	0.00	0.00
18,200.0	90.00	179.63	10,729.0	-7,650.6	-464.0	7,663.5	0.00	0.00	0.00
18,300.0	90.00	179.63	10,729.0	-7,750.6	-463.3	7,763.4	0.00	0.00	0.00
18,400.0	90.00	179.63	10,729.0	-7,850.6	-462.7	7,863.3	0.00	0.00	0.00
18,500.0	90.00	179.63	10,729.0	-7,950.6	-462.0	7,963.2	0.00	0.00	0.00
18,600.0	90.00	179.63	10,729.0	-8,050.6	-461.4	8,063.0	0.00	0.00	0.00
18,700.0	90.00	179.63	10,729.0	-8,150.5	-460.8	8,162.9	0.00	0.00	0.00
18,800.0	90.00	179.63	10,729.0	-8,250.5	-460.1	8,262.8	0.00	0.00	0.00
18,900.0	90.00	179.63	10,729.0	-8,350.5	-459.5	8,362.7	0.00	0.00	0.00
19,000.0	90.00	179.63	10,729.0	-8,450.5	-458.8	8,462.5	0.00	0.00	0.00
19,100.0	90.00	179.63	10,729.0	-8,550.5	-458.2	8,562.4	0.00	0.00	0.00
19,200.0	90.00	179.63	10,729.0	-8,650.5	-457.6	8,662.3	0.00	0.00	0.00
19,300.0	90.00	179.63	10,729.0	-8,750.5	-456.9	8,762.1	0.00	0.00	0.00
19,400.0	90.00	179.63	10,729.0	-8,850.5	-456.3	8,862.0	0.00	0.00	0.00
19,500.0	90.00	179.63	10,729.0	-8,950.5	-455.6	8,961.9	0.00	0.00	0.00
19,600.0	90.00	179.63	10,729.0	-9,050.5	-455.0	9,061.8	0.00	0.00	0.00
19,700.0	90.00	179.63	10,729.0	-9,150.5	-454.4	9,161.6	0.00	0.00	0.00
19,800.0	90.00	179.63	10,729.0	-9,250.5	-453.7	9,261.5	0.00	0.00	0.00
19,900.0	90.00	179.63	10,729.0	-9,350.5	-453.1	9,361.4	0.00	0.00	0.00
20,000.0	90.00	179.63	10,729.0	-9,450.5	-452.4	9,461.3	0.00	0.00	0.00
20,100.0	90.00	179.63	10,729.0	-9,550.5	-451.8	9,561.1	0.00	0.00	0.00
20,200.0	90.00	179.63	10,729.0	-9,650.5	-451.2	9,661.0	0.00	0.00	0.00
20,300.0	90.00	179.63	10,729.0	-9,750.5	-450.5	9,760.9	0.00	0.00	0.00
20,400.0	90.00	179.63	10,729.0	-9,850.5	-449.9	9,860.8	0.00	0.00	0.00
20,500.0	90.00	179.63	10,729.0	-9,950.5	-449.2	9,960.6	0.00	0.00	0.00
20,600.0	90.00	179.63	10,729.0	-10,050.5	-448.6	10,060.5	0.00	0.00	0.00
20,700.0	90.00	179.63	10,729.0	-10,150.5	-448.0	10,160.4	0.00	0.00	0.00
20,770.9	90.00	179.63	10,729.0	-10,221.4	-447.5	10,231.2	0.00	0.00	0.00
TD at 20770.9									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3170.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3170.0usft (P 84)
Well:	CABO WABO FED COM #801H	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 H10,070.0 D20.0)	0.00	359.63	10,729.0	-10,221.4	-447.5	398,152.76	623,617.92	32° 5' 38.432 N	103° 56' 2.949 W
FTP (CABO WABO FI - plan misses target center by 116.8usft at 10716.4usft MD (10631.9 TVD, -188.5 N, -501.9 E) - Circle (radius 50.0)	0.00	0.00	10,729.0	-124.6	-513.1	408,249.57	623,552.30	32° 7' 18.356 N	103° 56' 3.278 W
LTP (CABO WABO FE - plan hits target center - Point	0.00	0.00	10,729.0	-10,091.4	-448.4	398,282.75	623,617.06	32° 5' 39.719 N	103° 56' 2.954 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5788	5788	0	-14	Start 4488.7 hold at 5788.0 MD
10,277	10,254	0	-465	Start DLS 12.00 TFO -90.36
11,027	10,729	-478	-510	Start 9743.8 hold at 11027.1 MD
20,771	10,729	-10,221	-447	TD at 20770.9

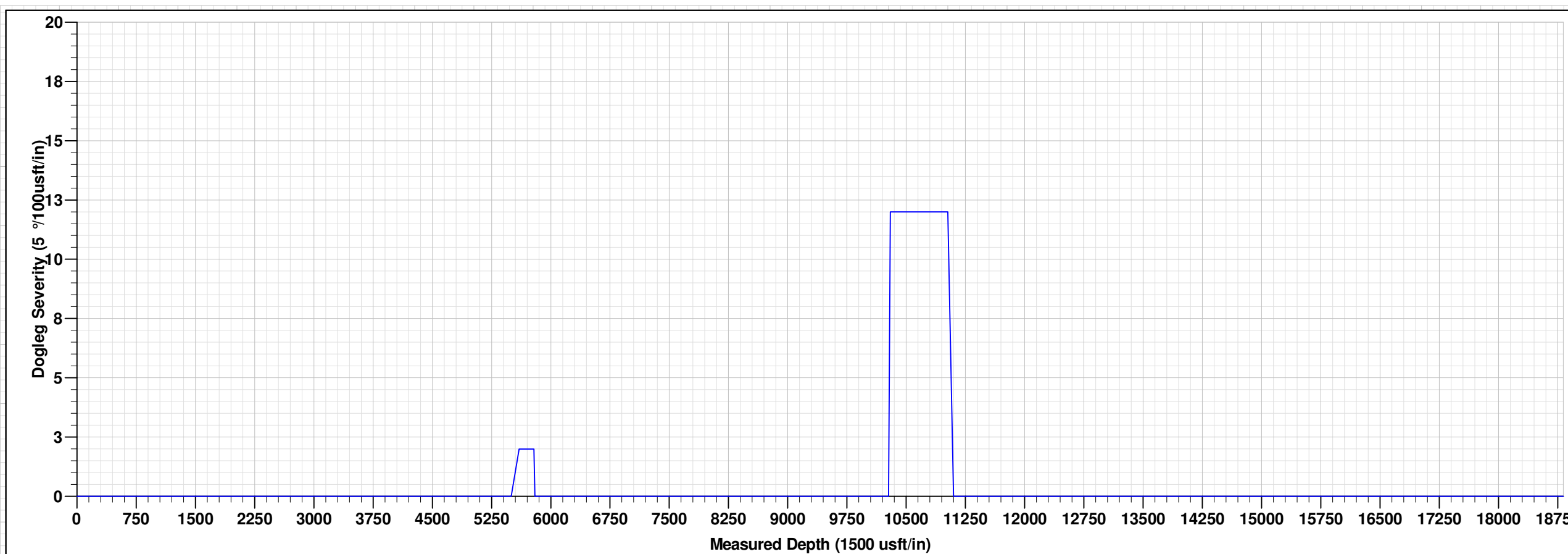
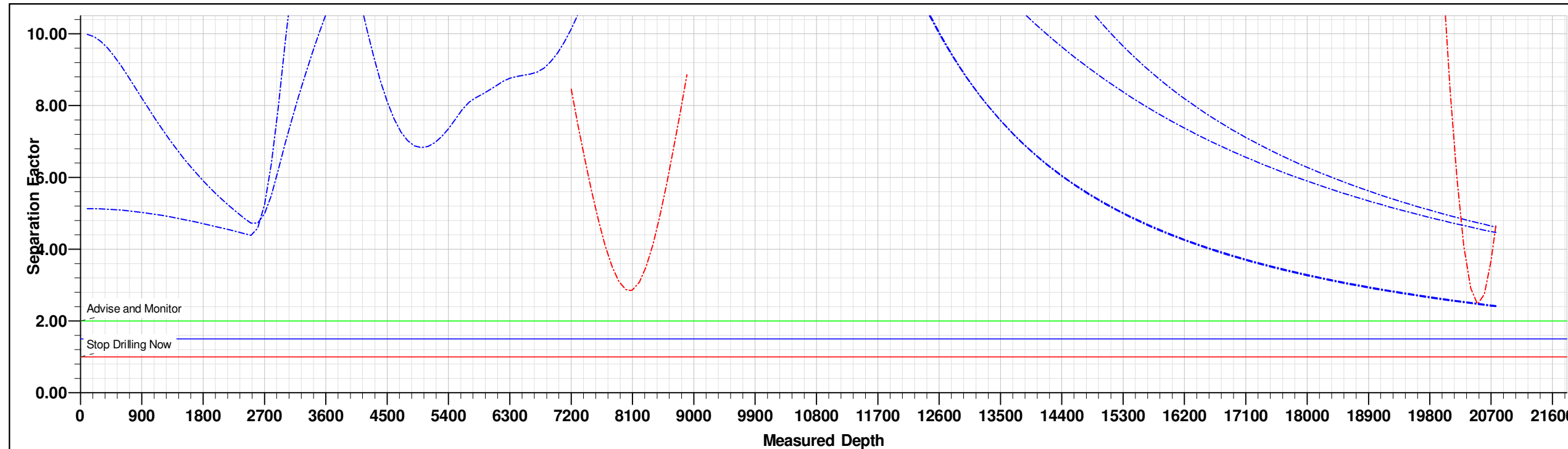
Checked By: _____ Approved By: _____ Date: _____

Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #801H
Wellbore: OWB
Design: PWP2
GL: 3145.0
KB=25' @ 3170.0usft (P 84)

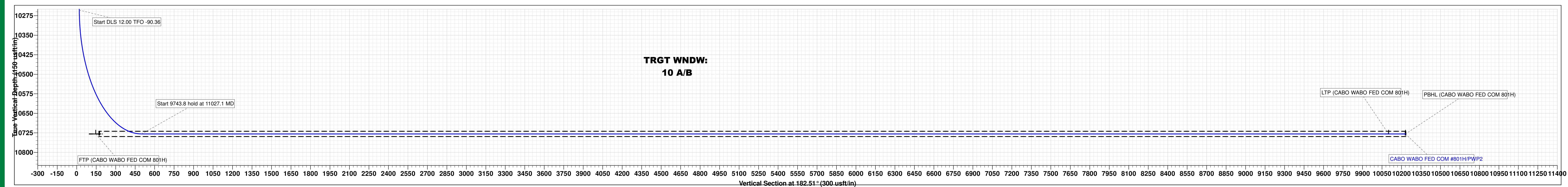
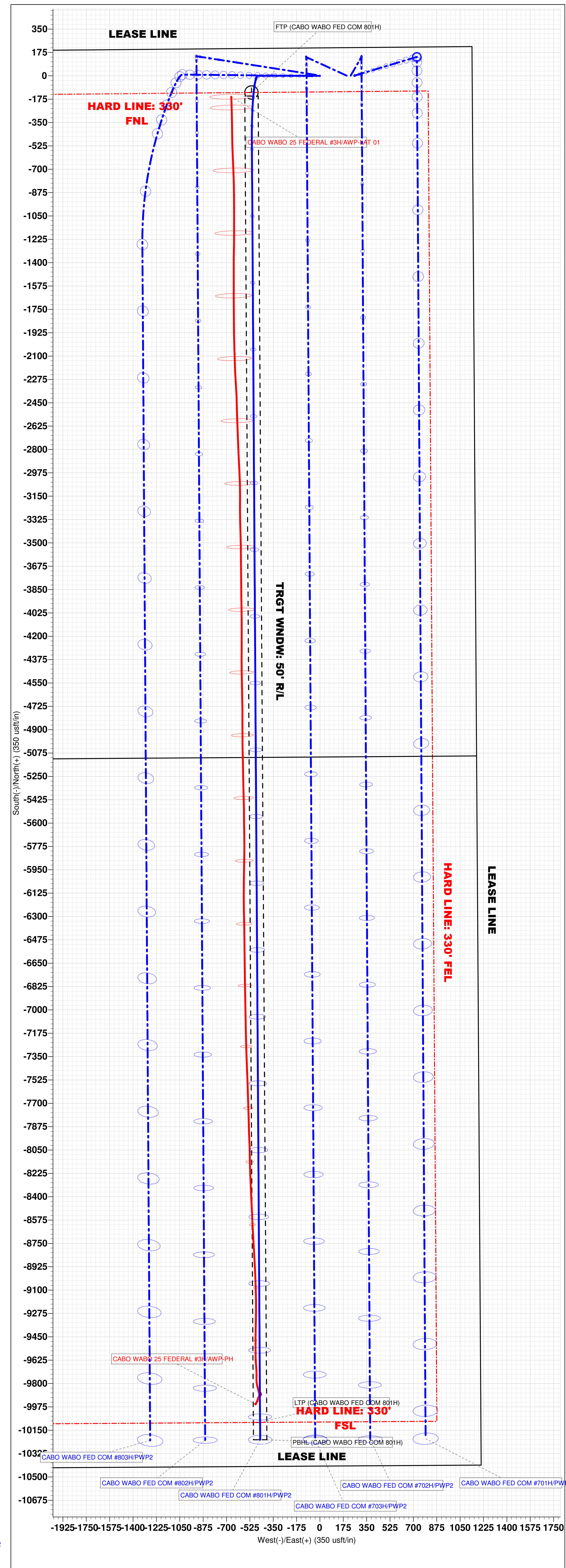
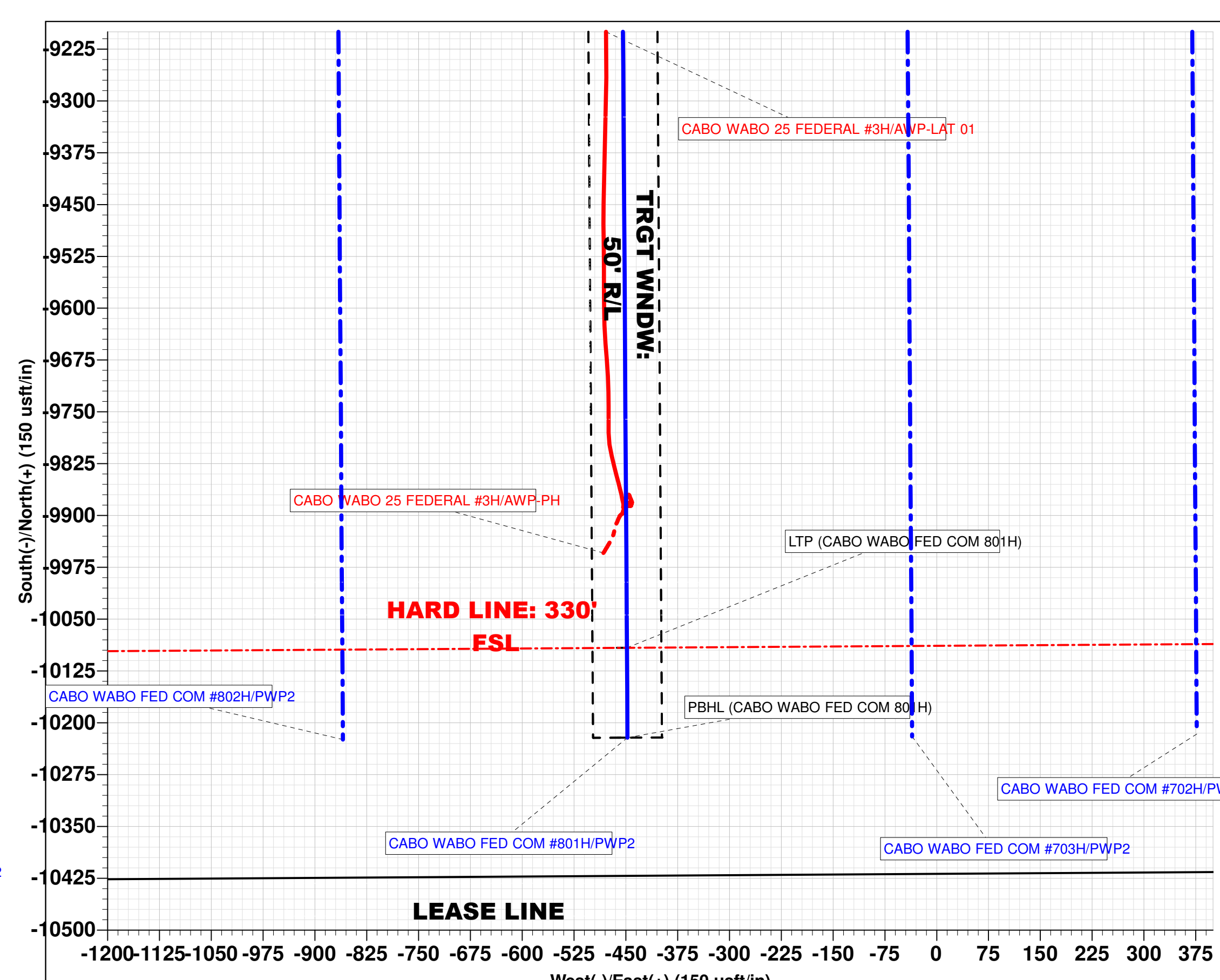
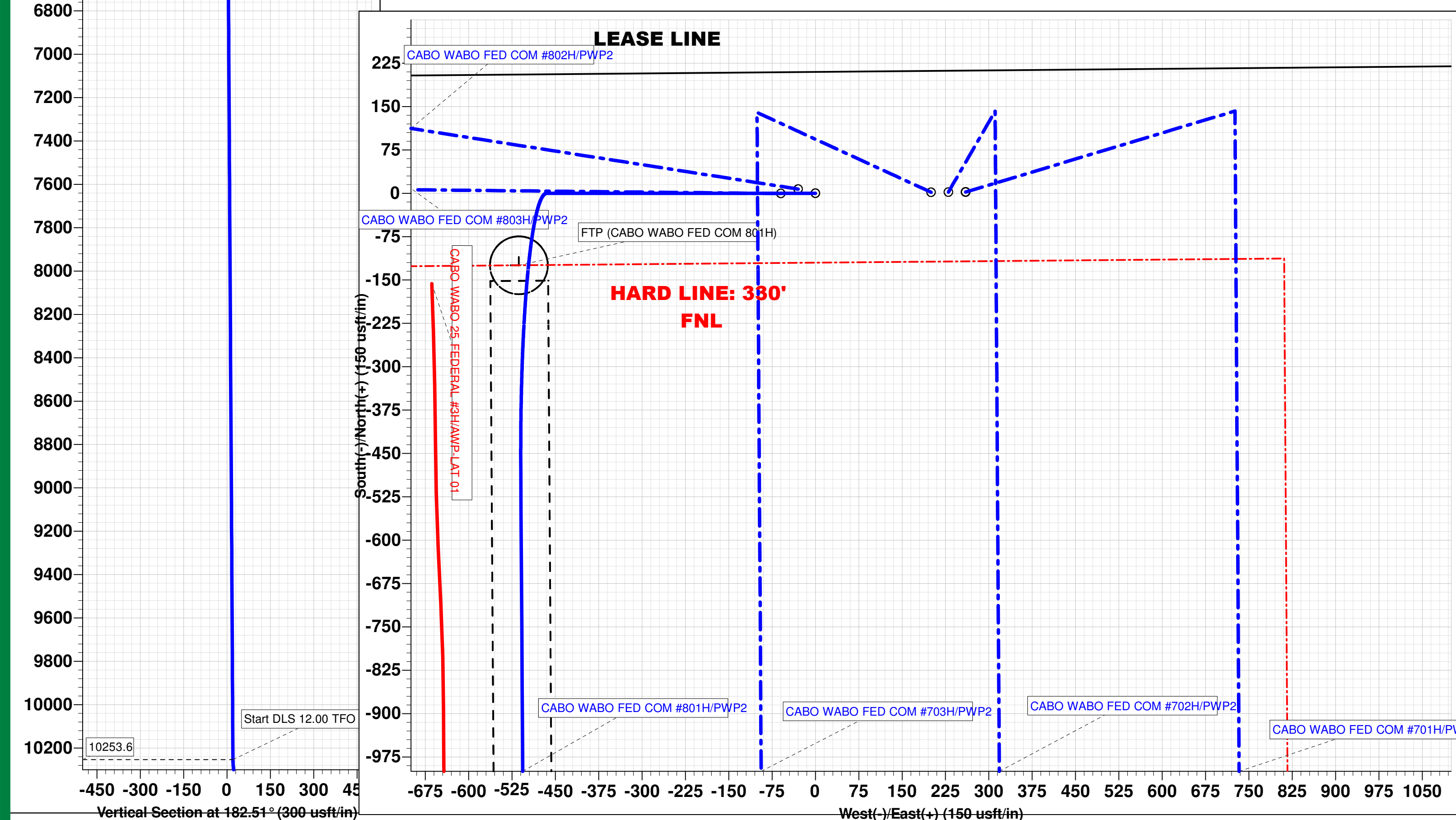
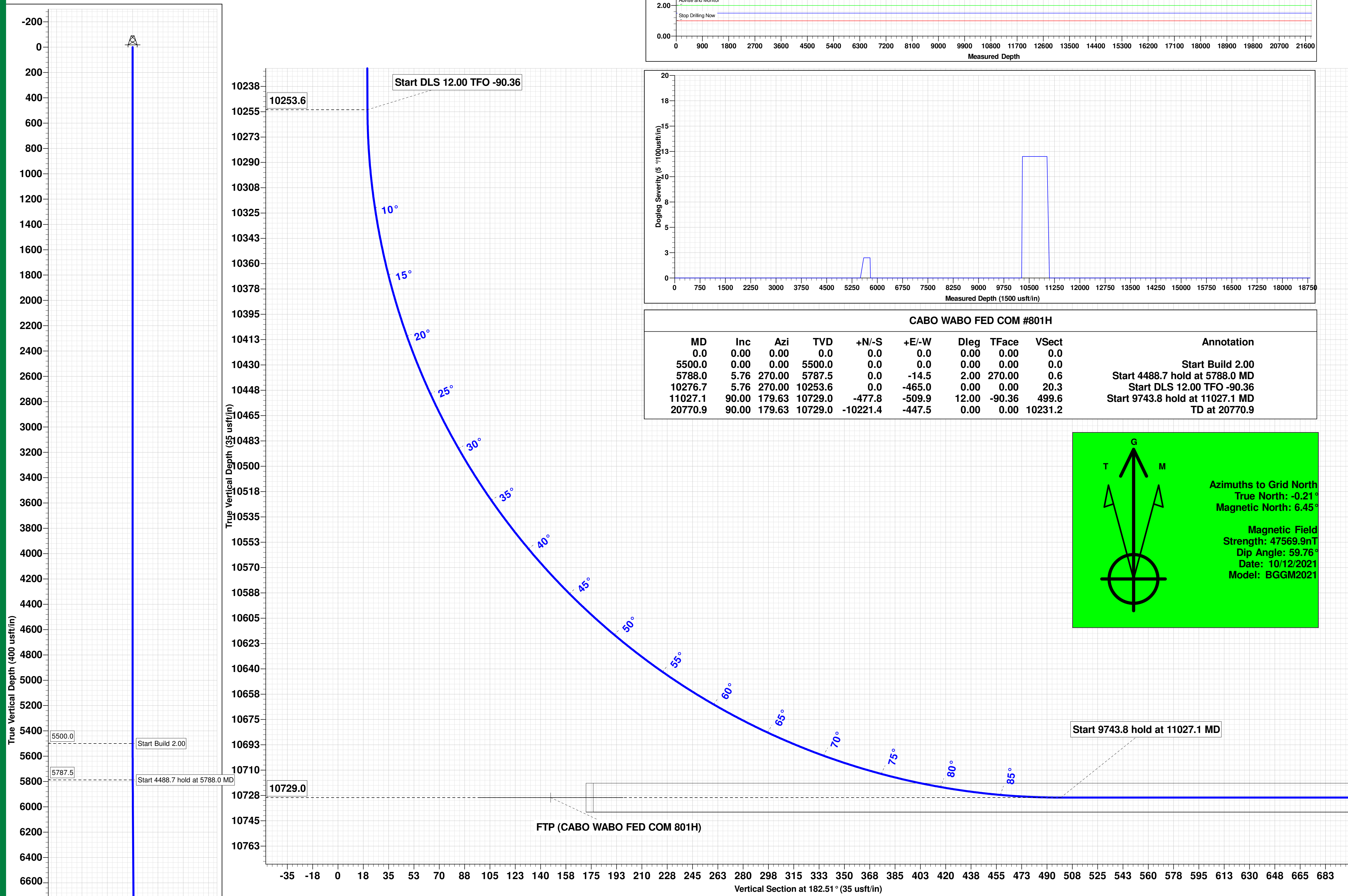
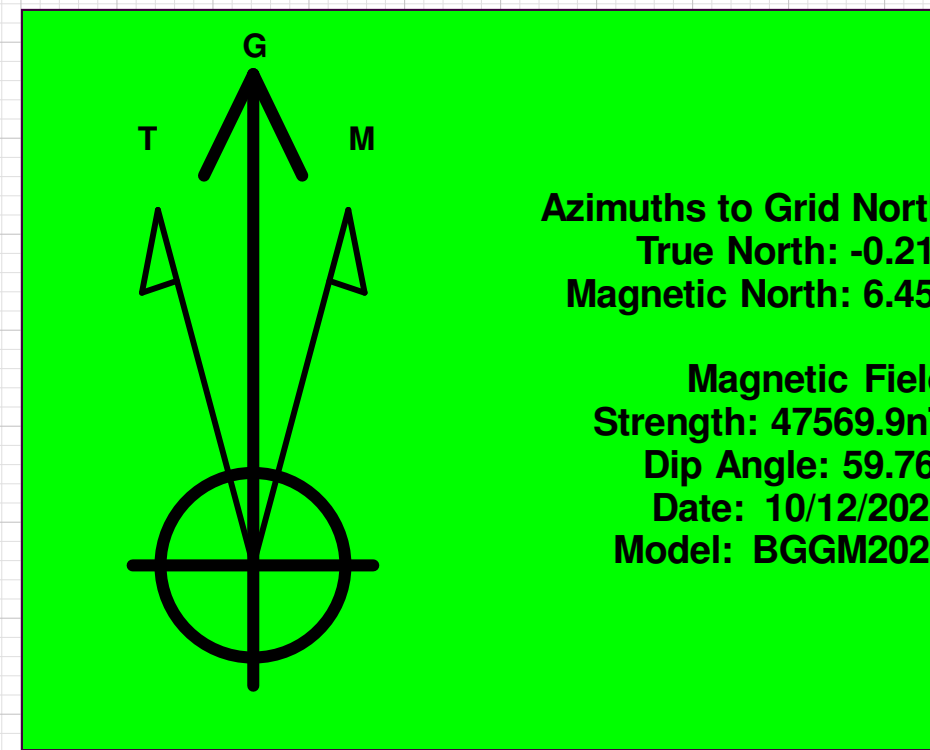


WELL DETAILS: CABO WABO FED COM #801H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408374.17	624065.42	32° 7' 19.570 N	103° 55' 57.306 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (CABO WABO FED COM 801H)	10729.0	-124.6	-513.1	408249.57	623552.30	32° 7' 18.356 N
LTP (CABO WABO FED COM 801H)	10729.0	-10091.4	-448.4	398282.75	623617.06	32° 5' 39.719 N
PBHL (CABO WABO FED COM 801H)	10729.0	-10221.4	-447.5	398152.76	623617.92	32° 5' 38.432 N



CABO WABO FED COM #801H										
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	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start 4488.7 hold at 5788.0 MD	
5788.0	5.76	270.00	5787.5	0.0	-14.5	2.00	270.00	0.6	Start DLS 12.00 TFO -90.36	
10276.7	5.76	270.00	10253.6	0.0	-465.0	0.00	0.00	20.3	Start 9743.8 hold at 11027.1 MD	
11027.1	90.00	179.63	10729.0	-477.8	-509.9	12.00	-90.36	499.6	Start 9743.8 hold at 11027.1 MD	
20770.9	90.00	179.63	10729.0	-10221.4	-447.5	0.00	0.00	10231.2	TD at 20770.9	



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 82892

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82892
	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

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 82892

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82892
	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