

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: NENW / 210 FNL / 1420 FWL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1221873 / LONG: -103.9419698 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 330 FNL / 2200 FWL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1218687 / LONG: -103.9394506 (TVD: 11443 feet, MD: 11600 feet)

BHL: SESW / 200 FSL / 2200 FWL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.094118 / LONG: -103.9393689 (TVD: 11445 feet, MD: 21672 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 30-015-47754		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 804H	
7 OGRID No. 217955		8 Operator Name COG PRODUCTION LLC			9 Elevation 3154'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	24	25-S	29-E		210'	NORTH	1420'	WEST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	25-S	29-E		200'	SOUTH	1154'	WEST	EDDY

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

CORNER DATA
NEW MEXICO EAST - NAD 83

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

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

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

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

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

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

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

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

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

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

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

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

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

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=662494.77
Y=408407.82
LAT.= 32.12218731° N
LONG.= 103.94196983° W
210' FNL, 1420' FWL
SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=662229.09
Y=408285.47
LAT.= 32.12185360° N
LONG.= 103.94282942° W
330' FNL, 1154' FWL
SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=662291.65
Y=398325.38
LAT.= 32.09447378° N
LONG.= 103.94274393° W
330' FSL, 1154' FWL
SECTION 25

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=662291.29
Y=398193.60
LAT.= 32.09411153° N
LONG.= 103.94274665° W
200' FSL, 1154' FWL
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
Date of Survey 8/16/2021
Signature and Seal of Professional Surveyor
Certificate Number

ConocoPhillips - Cabo Wabo Fed Com #804H

1. Geologic Formations

TVD of target	10,677' EOL	Pilot hole depth	NA
MD at TD:	20,828'	Deepest expected fresh water:	53'

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1350	10.75"	45.5	N80	BTC	4.00	1.67	16.93	17.86
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.24	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.66	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,828	5.5"	20	P110	W441	1.60	2.15	3.00	2.44
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 #804H

	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 #804H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft ³ / 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
	1059	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 #804H

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 #804H

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 #804H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6945 psi at 10677' 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 #804H

OWB

PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	10/12/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,194.3	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,194.3	20,828.5	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 24 FED 5H - OWB - AWP	7,977.5	12,448.0	683.4	602.5	8.450	CC, ES, SF
CABO WABO 24 FED COM #5H - OWB - ACTUAL WEL	7,978.0	12,448.0	683.7	603.1	8.483	CC, ES, SF
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	16,122.1	10,150.0	647.5	583.9	10.168	CC, ES
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	16,200.0	10,150.0	652.2	587.9	10.140	SF
CABO WABO FED COM #503H - OWB - PWP1	3,813.0	3,818.5	172.8	162.5	16.765	CC, ES
CABO WABO FED COM #503H - OWB - PWP1	3,900.0	3,905.2	173.0	162.7	16.758	SF
CABO WABO FED COM #504H - OWB - PWP1	2,909.4	2,910.3	207.6	198.5	22.946	CC, ES
CABO WABO FED COM #504H - OWB - PWP1	3,100.0	3,100.2	208.3	199.1	22.801	SF
CABO WABO FED COM #704H - OWB - PWP2	2,414.2	2,421.2	310.0	303.2	45.307	CC
CABO WABO FED COM #704H - OWB - PWP2	2,500.0	2,506.3	310.0	303.1	44.926	ES
CABO WABO FED COM #704H - OWB - PWP2	2,600.0	2,600.0	311.8	304.8	44.742	SF
CABO WABO FED COM #705H - OWB - PWP2	5,414.2	5,421.2	280.0	270.4	29.205	CC
CABO WABO FED COM #705H - OWB - PWP2	5,500.0	5,506.4	280.0	270.3	28.924	ES
CABO WABO FED COM #705H - OWB - PWP2	20,829.4	20,725.1	821.9	643.0	4.595	SF
CABO WABO FED COM #706H - OWB - PWP2	4,696.6	4,707.6	202.2	192.1	19.894	CC
CABO WABO FED COM #706H - OWB - PWP2	4,800.0	4,810.8	202.4	191.9	19.360	ES
CABO WABO FED COM #706H - OWB - PWP2	20,829.4	20,716.1	429.1	250.5	2.402	SF
CABO WABO FED COM #805H - OWB - PWP2	2,500.0	2,499.0	30.0	23.1	4.344	CC, ES
CABO WABO FED COM #805H - OWB - PWP2	20,829.4	20,730.4	433.6	255.2	2.431	SF
CABO WABO FED COM #806H - OWB - PWP2	2,500.0	2,498.0	60.0	47.3	4.733	CC, ES
CABO WABO FED COM #806H - OWB - PWP2	20,829.4	20,744.6	824.1	638.3	4.436	SF

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

10/12/2021 2:34:15PM

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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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO 24 FED 5H - OWB - AWP	20,829.4	7,701.0				Out of Range @TD
CABO WABO 24 FED COM #5H - OWB - ACTUAL WEL	20,829.4	7,701.0				Out of Range @TD
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	20,829.4	10,150.0				Out of Range @TD
CABO WABO FED COM #503H - OWB - PWP1	20,829.4	19,035.5				Out of Range @TD
CABO WABO FED COM #504H - OWB - PWP1	20,829.4	19,033.3				Out of Range @TD
CABO WABO FED COM #704H - OWB - PWP2	20,829.4	20,747.5				Out of Range @TD
CABO WABO FED COM #705H - OWB - PWP2	20,829.4	20,725.1	821.9	643.0	4.595 SF	
CABO WABO FED COM #706H - OWB - PWP2	20,829.4	20,716.1	429.1	250.5	2.402 SF	
CABO WABO FED COM #805H - OWB - PWP2	20,829.4	20,730.4	433.6	255.2	2.431 SF	
CABO WABO FED COM #806H - OWB - PWP2	20,829.4	20,744.6	824.1	638.3	4.436 SF	

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 24 FED 5H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 7290-MWD					Rule Assigned:			Offset Well Error:		3.0 usft		
Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error:		3.0 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,300.0	7,297.0	12,448.0	7,868.4	9.3	79.2	-48.97	-160.9	-767.7	962.3	891.2	71.17	13.522		
7,400.0	7,396.8	12,448.0	7,868.4	9.4	79.2	-48.97	-160.9	-767.7	894.8	821.4	73.33	12.202		
7,500.0	7,496.6	12,448.0	7,868.4	9.5	79.2	-48.97	-160.9	-767.7	833.7	758.2	75.51	11.042		
7,600.0	7,596.4	12,448.0	7,868.4	9.6	79.2	-48.97	-160.9	-767.7	780.8	703.2	77.56	10.067		
7,700.0	7,696.3	12,448.0	7,868.4	9.7	79.2	-48.97	-160.9	-767.7	737.6	658.3	79.28	9.304		
7,800.0	7,796.1	12,448.0	7,868.4	9.8	79.2	-48.97	-160.9	-767.7	706.1	625.6	80.47	8.774		
7,900.0	7,895.9	12,448.0	7,868.4	9.9	79.2	-48.97	-160.9	-767.7	687.8	606.8	80.98	8.493		
7,977.5	7,973.3	12,448.0	7,868.4	10.0	79.2	-48.97	-160.9	-767.7	683.4	602.5	80.87	8.450	CC, ES, SF	
8,000.0	7,995.7	12,448.0	7,868.4	10.0	79.2	-48.97	-160.9	-767.7	683.8	603.0	80.76	8.466		
8,100.0	8,095.5	12,448.0	7,868.4	10.1	79.2	-48.97	-160.9	-767.7	694.3	614.4	79.87	8.692		
8,200.0	8,195.4	12,448.0	7,868.4	10.2	79.2	-48.97	-160.9	-767.7	718.7	640.3	78.41	9.166		
8,300.0	8,295.2	12,448.0	7,868.4	10.3	79.2	-48.97	-160.9	-767.7	755.7	679.1	76.52	9.875		
8,400.0	8,395.0	12,448.0	7,868.4	10.4	79.2	-48.97	-160.9	-767.7	803.4	729.0	74.43	10.795		
8,500.0	8,494.8	12,448.0	7,868.4	10.5	79.2	-48.97	-160.9	-767.7	860.2	787.9	72.31	11.897		
8,600.0	8,594.6	12,448.0	7,868.4	10.6	79.2	-48.97	-160.9	-767.7	924.4	854.1	70.31	13.148		
8,700.0	8,694.5	12,448.0	7,868.4	10.8	79.2	-48.97	-160.9	-767.7	994.5	926.0	68.51	14.516		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 24 FED COM #5H - OWB - ACTUAL WELLPATH													Offset Site Error:	3.0 usft
Survey Program: 100- VES GyroFlex, 7290-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
7,300.0	7,297.0	12,448.0	7,868.4	9.3	79.0	-49.01	-161.4	-767.8	962.9	891.9	70.98	13.565		
7,400.0	7,396.8	12,448.0	7,868.4	9.4	79.0	-49.01	-161.4	-767.8	895.3	822.1	73.12	12.243		
7,500.0	7,496.6	12,448.0	7,868.4	9.5	79.0	-49.01	-161.4	-767.8	834.2	758.9	75.28	11.081		
7,600.0	7,596.4	12,448.0	7,868.4	9.6	79.0	-49.01	-161.4	-767.8	781.2	703.9	77.31	10.105		
7,700.0	7,696.3	12,448.0	7,868.4	9.7	79.0	-49.01	-161.4	-767.8	738.0	659.0	79.02	9.340		
7,800.0	7,796.1	12,448.0	7,868.4	9.8	79.0	-49.01	-161.4	-767.8	706.5	626.3	80.20	8.809		
7,900.0	7,895.9	12,448.0	7,868.4	9.9	79.0	-49.01	-161.4	-767.8	688.1	607.4	80.70	8.527		
7,978.0	7,973.8	12,448.0	7,868.4	10.0	79.0	-49.01	-161.4	-767.8	683.7	603.1	80.59	8.483	CC, ES, SF	
8,000.0	7,995.7	12,448.0	7,868.4	10.0	79.0	-49.01	-161.4	-767.8	684.0	603.5	80.48	8.499		
8,100.0	8,095.5	12,448.0	7,868.4	10.1	79.0	-49.01	-161.4	-767.8	694.4	614.8	79.60	8.724		
8,200.0	8,195.4	12,448.0	7,868.4	10.2	79.0	-49.01	-161.4	-767.8	718.8	640.6	78.15	9.197		
8,300.0	8,295.2	12,448.0	7,868.4	10.3	79.0	-49.01	-161.4	-767.8	755.7	679.4	76.29	9.905		
8,400.0	8,395.0	12,448.0	7,868.4	10.4	79.0	-49.01	-161.4	-767.8	803.4	729.2	74.21	10.825		
8,500.0	8,494.8	12,448.0	7,868.4	10.5	79.0	-49.01	-161.4	-767.8	860.1	788.0	72.12	11.927		
8,600.0	8,594.6	12,448.0	7,868.4	10.6	79.0	-49.01	-161.4	-767.8	924.2	854.1	70.14	13.178		
8,700.0	8,694.5	12,448.0	7,868.4	10.8	79.0	-49.01	-161.4	-767.8	994.3	925.9	68.36	14.546		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104													Offset Well Error:	3.0 usft
Reference	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)			
15,400.0	10,677.0	10,150.0	10,147.6	43.6	9.4	46.17	-5,508.8	-698.6	969.9	929.5	40.43	23.992		
15,500.0	10,677.0	10,150.0	10,147.6	44.4	9.4	46.17	-5,508.8	-698.6	897.9	854.5	43.46	20.663		
15,600.0	10,677.0	10,150.0	10,147.6	45.2	9.4	46.17	-5,508.8	-698.6	831.8	784.9	46.85	17.753		
15,700.0	10,677.0	10,150.0	10,147.6	46.1	9.4	46.17	-5,508.8	-698.6	773.0	722.4	50.55	15.290		
15,800.0	10,677.0	10,150.0	10,147.6	46.9	9.4	46.17	-5,508.8	-698.6	723.2	668.8	54.38	13.299		
15,900.0	10,677.0	10,150.0	10,147.6	47.8	9.4	46.17	-5,508.8	-698.6	684.6	626.5	58.06	11.791		
16,000.0	10,677.0	10,150.0	10,147.6	48.6	9.4	46.17	-5,508.8	-698.6	659.0	597.8	61.19	10.769		
16,100.0	10,677.0	10,150.0	10,147.6	49.5	9.4	46.17	-5,508.8	-698.6	647.9	584.6	63.36	10.225		
16,122.1	10,677.0	10,150.0	10,147.6	49.7	9.4	46.17	-5,508.8	-698.6	647.5	583.9	63.69	10.168 CC, ES		
16,200.0	10,677.0	10,150.0	10,147.6	50.3	9.4	46.17	-5,508.8	-698.6	652.2	587.9	64.32	10.140 SF		
16,300.0	10,677.0	10,150.0	10,147.6	51.2	9.4	46.17	-5,508.8	-698.6	671.5	607.5	64.03	10.488		
16,400.0	10,677.0	10,150.0	10,147.6	52.0	9.4	46.17	-5,508.8	-698.6	704.7	642.0	62.72	11.236		
16,500.0	10,677.0	10,150.0	10,147.6	52.9	9.4	46.17	-5,508.8	-698.6	749.8	689.0	60.73	12.346		
16,600.0	10,677.0	10,150.0	10,147.6	53.7	9.4	46.17	-5,508.8	-698.6	804.8	746.4	58.40	13.781		
16,700.0	10,677.0	10,150.0	10,147.6	54.6	9.4	46.17	-5,508.8	-698.6	867.9	811.9	55.99	15.502		
16,800.0	10,677.0	10,150.0	10,147.6	55.4	9.4	46.17	-5,508.8	-698.6	937.5	883.8	53.66	17.471		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #503H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8449-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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
0.0	0.0	1.0	1.0	3.0	3.0	-171.62	-171.62	-200.2	-29.5	202.4				
100.0	100.0	101.0	101.0	3.0	3.0	-171.62	-171.62	-200.2	-29.5	202.4	196.4	6.00	33.731	
200.0	200.0	201.0	201.0	3.0	3.0	-171.62	-171.62	-200.2	-29.5	202.4	196.4	6.01	33.676	
300.0	300.0	301.0	301.0	3.0	3.0	-171.62	-171.62	-200.2	-29.5	202.4	196.4	6.03	33.557	
400.0	400.0	401.0	401.0	3.0	3.0	-171.62	-171.62	-200.2	-29.5	202.4	196.3	6.06	33.377	
500.0	500.0	501.0	501.0	3.1	3.1	-171.62	-171.62	-200.2	-29.5	202.4	196.3	6.11	33.140	
600.0	600.0	601.0	601.0	3.1	3.1	-171.62	-171.62	-200.2	-29.5	202.4	196.3	6.16	32.848	
700.0	700.0	701.0	701.0	3.1	3.1	-171.62	-171.62	-200.2	-29.5	202.4	196.2	6.23	32.505	
800.0	800.0	801.0	801.0	3.2	3.2	-171.62	-171.62	-200.2	-29.5	202.4	196.1	6.30	32.118	
900.0	900.0	901.0	901.0	3.2	3.2	-171.62	-171.62	-200.2	-29.5	202.4	196.0	6.39	31.691	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	3.2	-171.62	-171.62	-200.2	-29.5	202.4	195.9	6.48	31.230	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	3.3	-171.62	-171.62	-200.2	-29.5	202.4	195.8	6.58	30.740	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.4	-171.62	-171.62	-200.2	-29.5	202.4	195.7	6.70	30.225	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	3.4	-171.62	-171.62	-200.2	-29.5	202.4	195.6	6.82	29.692	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	3.5	-171.62	-171.62	-200.2	-29.5	202.4	195.5	6.95	29.145	
1,500.0	1,500.0	1,501.0	1,501.0	3.5	3.5	-171.62	-171.62	-200.2	-29.5	202.4	195.3	7.08	28.588	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	3.6	-171.62	-171.62	-200.2	-29.5	202.4	195.2	7.22	28.024	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	-171.62	-171.62	-200.2	-29.5	202.4	195.0	7.37	27.458	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	3.8	-171.62	-171.62	-200.2	-29.5	202.4	194.9	7.53	26.893	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	-171.62	-171.62	-200.2	-29.5	202.4	194.7	7.69	26.330	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	3.9	-171.62	-171.62	-200.2	-29.5	202.4	194.6	7.85	25.773	
2,100.0	2,100.0	2,101.0	2,101.0	4.0	4.0	-171.62	-171.62	-200.2	-29.5	202.4	194.4	8.03	25.223	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	4.1	-171.62	-171.62	-200.2	-29.5	202.4	194.2	8.20	24.681	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	4.2	-171.62	-171.62	-200.2	-29.5	202.4	194.0	8.38	24.149	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	4.3	-171.62	-171.62	-200.2	-29.5	202.4	193.8	8.57	23.628	
2,500.0	2,500.0	2,501.0	2,501.0	4.4	4.4	-171.62	-171.62	-200.2	-29.5	202.4	193.7	8.75	23.120	
2,600.0	2,600.0	2,604.8	2,604.8	4.5	4.5	-172.08	-172.08	-199.5	-27.7	201.5	192.5	8.94	22.545	
2,700.0	2,700.0	2,708.3	2,708.1	4.6	4.5	-173.48	-173.48	-197.3	-22.5	198.7	189.6	9.11	21.822	
2,800.0	2,800.0	2,809.5	2,808.9	4.7	4.6	-175.68	-175.68	-193.9	-14.6	194.6	185.4	9.28	20.986	
2,900.0	2,900.0	2,909.1	2,908.1	4.8	4.7	-178.04	-178.04	-190.5	-6.5	190.7	181.3	9.44	20.210	
3,000.0	3,000.0	3,008.7	3,007.4	4.9	4.7	-179.51	-179.51	-187.1	1.6	187.2	177.6	9.59	19.514	
3,100.0	3,100.0	3,108.3	3,106.6	5.0	4.8	176.98	176.98	-183.6	9.7	183.9	174.2	9.73	18.899	
3,200.0	3,200.0	3,207.9	3,205.8	5.1	4.9	174.36	174.36	-180.2	17.8	181.1	171.2	9.86	18.364	
3,300.0	3,300.0	3,307.5	3,305.0	5.2	4.9	171.66	171.66	-176.7	25.9	178.7	168.7	9.98	17.908	
3,400.0	3,400.0	3,407.1	3,404.2	5.3	5.0	168.89	168.89	-173.3	34.0	176.6	166.5	10.08	17.530	
3,500.0	3,500.0	3,506.7	3,503.4	5.4	5.1	166.07	166.07	-169.8	42.1	175.0	164.8	10.16	17.229	
3,600.0	3,600.0	3,606.3	3,602.7	5.5	5.2	163.20	163.20	-166.4	50.2	173.8	163.6	10.22	17.004	
3,700.0	3,700.0	3,705.9	3,701.9	5.7	5.2	160.30	160.30	-163.0	58.4	173.1	162.8	10.27	16.852	
3,800.0	3,800.0	3,805.6	3,801.1	5.8	5.3	157.38	157.38	-159.5	66.5	172.8	162.5	10.30	16.771	
3,813.0	3,813.0	3,818.5	3,814.0	5.8	5.3	157.00	157.00	-159.1	67.5	172.8	162.5	10.31	16.765 CC, ES	
3,900.0	3,900.0	3,905.2	3,900.3	5.9	5.4	154.46	154.46	-156.1	74.6	173.0	162.7	10.32	16.758 SF	
4,000.0	4,000.0	4,004.8	3,999.5	6.0	5.5	151.55	151.55	-152.6	82.7	173.6	163.3	10.33	16.808	
4,100.0	4,100.0	4,104.4	4,098.8	6.1	5.6	148.67	148.67	-149.2	90.8	174.7	164.3	10.32	16.919	
4,200.0	4,200.0	4,204.0	4,198.0	6.2	5.7	145.84	145.84	-145.7	98.9	176.2	165.8	10.31	17.083	
4,300.0	4,300.0	4,303.6	4,297.2	6.3	5.8	143.05	143.05	-142.3	107.0	178.1	167.8	10.30	17.297	
4,400.0	4,400.0	4,403.2	4,396.4	6.5	5.9	140.34	140.34	-138.9	115.1	180.4	170.2	10.28	17.554	
4,500.0	4,500.0	4,502.8	4,495.6	6.6	6.0	137.70	137.70	-135.4	123.2	183.2	172.9	10.26	17.847	
4,600.0	4,600.0	4,602.4	4,594.8	6.7	6.1	135.14	135.14	-132.0	131.3	186.3	176.0	10.25	18.171	
4,700.0	4,700.0	4,702.0	4,694.1	6.8	6.2	132.66	132.66	-128.5	139.5	189.8	179.5	10.25	18.519	
4,800.0	4,800.0	4,801.6	4,793.3	6.9	6.2	130.29	130.29	-125.1	147.6	193.6	183.4	10.25	18.884	
4,900.0	4,900.0	4,901.2	4,892.5	7.0	6.3	128.00	128.00	-121.6	155.7	197.8	187.5	10.27	19.262	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8449-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,000.0	5,000.0	5,000.9	4,991.7	7.2	6.5	125.82	-118.2	163.8	202.2	191.9	10.29	19.646	
5,100.0	5,100.0	5,100.5	5,090.9	7.3	6.6	123.73	-114.8	171.9	206.9	196.6	10.33	20.034	
5,200.0	5,200.0	5,200.1	5,190.1	7.4	6.7	121.73	-111.3	180.0	211.9	201.5	10.38	20.421	
5,300.0	5,300.0	5,299.7	5,289.4	7.5	6.8	119.83	-107.9	188.1	217.2	206.7	10.44	20.804	
5,400.0	5,400.0	5,399.3	5,388.6	7.6	6.9	118.02	-104.4	196.2	222.6	212.1	10.51	21.181	
5,500.0	5,500.0	5,498.9	5,487.8	7.8	7.0	116.30	-101.0	204.3	228.3	217.7	10.59	21.550	
5,600.0	5,600.0	5,598.4	5,586.9	7.9	7.1	175.43	-97.6	212.4	235.9	225.2	10.70	22.039	
5,671.8	5,671.7	5,669.7	5,657.9	7.9	7.2	174.38	-95.1	218.2	243.6	232.8	10.80	22.554	
5,700.0	5,699.8	5,697.6	5,685.7	7.9	7.2	174.00	-94.1	220.5	247.0	236.2	10.84	22.785	
5,800.0	5,799.7	5,796.7	5,784.4	8.0	7.3	172.72	-90.7	228.6	259.2	248.2	10.99	23.583	
5,900.0	5,899.5	5,895.8	5,883.1	8.1	7.4	171.56	-87.3	236.7	271.4	260.3	11.14	24.352	
6,000.0	5,999.3	5,994.9	5,981.9	8.2	7.5	170.50	-83.8	244.7	283.7	272.4	11.31	25.094	
6,100.0	6,099.1	6,094.0	6,080.6	8.3	7.6	169.53	-80.4	252.8	296.2	284.7	11.48	25.808	
6,200.0	6,198.9	6,193.1	6,179.3	8.4	7.7	168.64	-77.0	260.9	308.7	297.0	11.65	26.497	
6,300.0	6,298.8	6,292.2	6,278.0	8.4	7.8	167.82	-73.6	268.9	321.3	309.4	11.83	27.161	
6,400.0	6,398.6	6,391.3	6,376.7	8.5	7.9	167.06	-70.1	277.0	333.9	321.9	12.01	27.801	
6,500.0	6,498.4	6,490.4	6,475.4	8.6	8.1	166.35	-66.7	285.1	346.6	334.4	12.20	28.419	
6,600.0	6,598.2	6,589.5	6,574.2	8.7	8.2	165.70	-63.3	293.1	359.3	346.9	12.38	29.014	
6,700.0	6,698.0	6,688.6	6,672.9	8.8	8.3	165.09	-59.9	301.2	372.1	359.5	12.58	29.589	
6,800.0	6,797.9	6,787.7	6,771.6	8.9	8.4	164.52	-56.4	309.3	384.9	372.2	12.77	30.143	
6,900.0	6,897.7	6,886.8	6,870.3	9.0	8.5	163.98	-53.0	317.3	397.8	384.8	12.97	30.678	
7,000.0	6,997.5	6,985.9	6,969.0	9.1	8.6	163.49	-49.6	325.4	410.7	397.5	13.17	31.194	
7,100.0	7,097.3	7,085.0	7,067.7	9.2	8.7	163.02	-46.2	333.5	423.6	410.2	13.37	31.692	
7,200.0	7,197.1	7,184.2	7,166.5	9.2	8.9	162.57	-42.7	341.6	436.5	423.0	13.57	32.173	
7,300.0	7,297.0	7,283.3	7,265.2	9.3	9.0	162.16	-39.3	349.6	449.5	435.7	13.77	32.638	
7,400.0	7,396.8	7,382.4	7,363.9	9.4	9.1	161.77	-35.9	357.7	462.5	448.5	13.98	33.087	
7,500.0	7,496.6	7,481.5	7,462.6	9.5	9.2	161.39	-32.5	365.8	475.5	461.3	14.18	33.521	
7,600.0	7,596.4	7,580.6	7,561.3	9.6	9.3	161.04	-29.0	373.8	488.5	474.1	14.39	33.940	
7,700.0	7,696.3	7,679.7	7,660.0	9.7	9.4	160.71	-25.6	381.9	501.6	487.0	14.60	34.345	
7,800.0	7,796.1	7,778.8	7,758.7	9.8	9.6	160.39	-22.2	390.0	514.6	499.8	14.82	34.736	
7,900.0	7,895.9	7,877.9	7,857.5	9.9	9.7	160.09	-18.8	398.0	527.7	512.7	15.03	35.115	
8,000.0	7,995.7	7,977.0	7,956.2	10.0	9.8	159.81	-15.3	406.1	540.8	525.5	15.24	35.481	
8,100.0	8,095.5	8,076.1	8,054.9	10.1	9.9	159.53	-11.9	414.2	553.9	538.4	15.46	35.835	
8,200.0	8,195.4	8,175.2	8,153.6	10.2	10.0	159.27	-8.5	422.2	567.0	551.3	15.67	36.177	
8,300.0	8,295.2	8,274.3	8,252.3	10.3	10.1	159.02	-5.1	430.3	580.1	564.2	15.89	36.509	
8,400.0	8,395.0	8,373.4	8,351.0	10.4	10.3	158.79	-1.6	438.4	593.3	577.2	16.11	36.829	
8,500.0	8,494.8	8,471.7	8,449.0	10.5	10.4	158.56	1.7	446.4	606.4	590.1	16.29	37.227	
8,600.0	8,594.6	8,550.0	8,526.8	10.6	10.4	158.87	-0.9	453.3	621.2	604.7	16.50	37.645	
8,700.0	8,694.5	8,626.9	8,602.2	10.8	10.4	160.09	-13.7	461.0	639.4	622.6	16.79	38.078	
8,800.0	8,794.3	8,700.0	8,671.6	10.9	10.4	161.99	-35.2	469.0	661.8	644.6	17.20	38.478	
8,900.0	8,894.1	8,761.1	8,727.0	11.0	10.5	164.06	-59.8	476.2	689.0	671.2	17.82	38.665	
9,000.0	8,993.9	8,817.8	8,775.8	11.1	10.5	166.31	-87.8	483.1	721.9	703.2	18.61	38.792	
9,100.0	9,093.7	8,867.6	8,816.1	11.2	10.5	168.49	-116.3	489.4	760.8	741.2	19.57	38.873	
9,200.0	9,193.6	8,911.0	8,849.1	11.3	10.6	170.53	-143.9	494.9	805.9	785.2	20.66	39.003	
9,300.0	9,293.4	8,950.0	8,876.9	11.4	10.6	172.42	-170.8	499.9	856.9	835.1	21.81	39.287	
9,400.0	9,393.2	8,981.9	8,898.2	11.5	10.7	174.00	-194.2	504.1	913.5	890.5	23.00	39.711	
9,500.0	9,493.0	9,000.0	8,909.7	11.6	10.7	174.91	-208.0	506.4	975.3	951.0	24.26	40.208	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #504H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program:	0-Standard Keeper 104, 8446-MWD+IFR1+FDIR										Rule Assigned:	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		Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-163.47	-200.4	-59.5	209.1				
100.0	100.0	100.0	100.0	3.0	3.0	-163.47	-200.4	-59.5	209.1	203.1	6.00	34.844	
200.0	200.0	200.0	200.0	3.0	3.0	-163.47	-200.4	-59.5	209.1	203.1	6.01	34.790	
300.0	300.0	300.0	300.0	3.0	3.0	-163.47	-200.4	-59.5	209.1	203.1	6.03	34.673	
333.3	333.3	333.3	333.3	3.0	3.0	-163.47	-200.4	-59.5	209.1	203.1	6.04	34.621	
400.0	400.0	400.0	400.0	3.0	3.0	-163.47	-200.4	-59.5	209.1	203.0	6.06	34.496	
500.0	500.0	500.0	500.0	3.1	3.1	-163.47	-200.4	-59.5	209.1	203.0	6.10	34.261	
600.0	600.0	600.0	600.0	3.1	3.1	-163.47	-200.4	-59.5	209.1	202.9	6.15	33.971	
700.0	700.0	700.0	700.0	3.1	3.1	-163.47	-200.4	-59.5	209.1	202.9	6.22	33.632	
800.0	800.0	800.0	800.0	3.2	3.2	-163.47	-200.4	-59.5	209.1	202.8	6.29	33.248	
900.0	900.0	900.0	900.0	3.2	3.2	-163.47	-200.4	-59.5	209.1	202.7	6.37	32.824	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-163.47	-200.4	-59.5	209.1	202.6	6.46	32.364	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-163.47	-200.4	-59.5	209.1	202.5	6.56	31.875	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-163.47	-200.4	-59.5	209.1	202.4	6.67	31.360	
1,233.3	1,233.3	1,233.3	1,233.3	3.4	3.4	-163.47	-200.4	-59.5	209.1	202.4	6.70	31.184	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-163.47	-200.4	-59.5	209.1	202.3	6.78	30.826	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-163.47	-200.4	-59.5	209.1	202.2	6.91	30.277	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-163.47	-200.4	-59.5	209.1	202.1	7.04	29.717	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-163.47	-200.4	-59.5	209.1	201.9	7.17	29.149	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-163.47	-200.4	-59.5	209.1	201.8	7.32	28.578	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-163.47	-200.4	-59.5	209.1	201.6	7.47	28.006	
1,833.3	1,833.3	1,833.3	1,833.3	3.8	3.8	-163.47	-200.4	-59.5	209.1	201.6	7.52	27.816	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-163.47	-200.4	-59.5	209.1	201.5	7.62	27.437	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-163.47	-200.4	-59.5	209.1	201.3	7.78	26.871	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-163.47	-200.4	-59.5	209.1	201.1	7.95	26.312	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-163.47	-200.4	-59.5	209.1	201.0	8.12	25.761	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-163.47	-200.4	-59.5	209.1	200.8	8.29	25.218	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-163.47	-200.4	-59.5	209.1	200.6	8.47	24.687	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-163.47	-200.4	-59.5	209.1	200.4	8.65	24.166	
2,600.0	2,600.0	2,600.8	2,600.8	4.5	4.5	-162.99	-199.7	-61.1	208.9	200.1	8.80	23.733	
2,700.0	2,700.0	2,701.4	2,701.3	4.6	4.5	-161.54	-197.6	-66.0	208.4	199.5	8.90	23.405	
2,800.0	2,800.0	2,801.4	2,800.9	4.7	4.6	-159.23	-194.3	-73.7	207.8	198.8	8.98	23.144	
2,900.0	2,900.0	2,901.0	2,900.1	4.8	4.6	-156.79	-190.8	-81.8	207.6	198.5	9.04	22.960	
2,909.4	2,909.4	2,910.3	2,909.4	4.8	4.7	-156.56	-190.5	-82.6	207.6	198.5	9.05	22.946 CC, ES	
3,000.0	3,000.0	3,000.6	2,999.3	4.9	4.7	-154.35	-187.3	-89.9	207.7	198.6	9.09	22.847	
3,100.0	3,100.0	3,100.2	3,098.5	5.0	4.8	-151.92	-183.7	-98.0	208.3	199.1	9.13	22.801 SF	
3,200.0	3,200.0	3,199.8	3,197.7	5.1	4.9	-149.50	-180.2	-106.2	209.2	200.0	9.17	22.818	
3,300.0	3,300.0	3,299.4	3,296.9	5.2	4.9	-147.11	-176.7	-114.3	210.5	201.3	9.19	22.895	
3,400.0	3,400.0	3,399.0	3,396.1	5.3	5.0	-144.75	-173.2	-122.4	212.1	202.9	9.21	23.027	
3,500.0	3,500.0	3,498.6	3,495.3	5.4	5.1	-142.43	-169.7	-130.5	214.1	204.9	9.23	23.209	
3,600.0	3,600.0	3,598.2	3,594.5	5.5	5.2	-140.16	-166.1	-138.6	216.5	207.2	9.24	23.435	
3,700.0	3,700.0	3,697.8	3,693.8	5.7	5.2	-137.94	-162.6	-146.8	219.1	209.9	9.25	23.700	
3,800.0	3,800.0	3,797.4	3,793.0	5.8	5.3	-135.77	-159.1	-154.9	222.1	212.9	9.26	23.999	
3,900.0	3,900.0	3,897.0	3,892.2	5.9	5.4	-133.67	-155.6	-163.0	225.5	216.2	9.27	24.325	
4,000.0	4,000.0	3,996.6	3,991.4	6.0	5.5	-131.63	-152.1	-171.1	229.1	219.8	9.28	24.673	
4,100.0	4,100.0	4,096.2	4,090.6	6.1	5.6	-129.65	-148.5	-179.2	233.0	223.7	9.31	25.038	
4,200.0	4,200.0	4,195.8	4,189.8	6.2	5.7	-127.74	-145.0	-187.4	237.1	227.8	9.33	25.414	
4,300.0	4,300.0	4,295.5	4,289.0	6.3	5.8	-125.90	-141.5	-195.5	241.6	232.2	9.36	25.796	
4,400.0	4,400.0	4,395.1	4,388.2	6.5	5.9	-124.13	-138.0	-203.6	246.2	236.8	9.41	26.180	
4,500.0	4,500.0	4,494.7	4,487.4	6.6	6.0	-122.42	-134.5	-211.7	251.1	241.7	9.45	26.562	
4,600.0	4,600.0	4,494.3	4,486.7	6.7	6.1	-120.78	-130.9	-219.8	256.2	246.7	9.51	26.940	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #504H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,700.0	4,693.9	4,685.9	6.8	6.1	-119.20	-127.4	-228.0	261.5	252.0	9.58	27.310	
4,800.0	4,800.0	4,793.5	4,785.1	6.9	6.2	-117.69	-123.9	-236.1	267.0	257.4	9.65	27.671	
4,900.0	4,900.0	4,893.1	4,884.3	7.0	6.3	-116.24	-120.4	-244.2	272.7	263.0	9.73	28.020	
5,000.0	5,000.0	4,992.7	4,983.5	7.2	6.4	-114.85	-116.9	-252.3	278.6	268.7	9.82	28.358	
5,100.0	5,100.0	5,092.3	5,082.7	7.3	6.6	-113.52	-113.3	-260.4	284.6	274.6	9.92	28.682	
5,200.0	5,200.0	5,191.9	5,181.9	7.4	6.7	-112.24	-109.8	-268.6	290.7	280.7	10.03	28.994	
5,300.0	5,300.0	5,291.5	5,281.1	7.5	6.8	-111.02	-106.3	-276.7	297.0	286.9	10.14	29.292	
5,400.0	5,400.0	5,391.1	5,380.3	7.6	6.9	-109.84	-102.8	-284.8	303.4	293.2	10.26	29.577	
5,500.0	5,500.0	5,490.7	5,479.5	7.8	7.0	-108.72	-99.3	-292.9	310.0	299.6	10.38	29.848	
5,600.0	5,600.0	5,590.4	5,578.9	7.9	7.1	-107.05	-95.7	-301.0	315.4	304.9	10.50	30.040	
5,671.8	5,671.7	5,662.2	5,650.4	7.9	7.2	-106.70	-93.2	-306.9	317.9	307.3	10.58	30.057	
5,700.0	5,699.8	5,690.4	5,678.4	7.9	7.2	-106.63	-92.2	-309.2	318.6	308.0	10.61	30.037	
5,800.0	5,799.7	5,790.3	5,778.0	8.0	7.3	-106.37	-88.7	-317.3	321.3	310.5	10.72	29.960	
5,900.0	5,899.5	5,890.3	5,877.5	8.1	7.4	-106.12	-85.1	-325.5	323.9	313.0	10.84	29.872	
6,000.0	5,999.3	5,990.2	5,977.1	8.2	7.5	-105.86	-81.6	-333.6	326.5	315.6	10.97	29.775	
6,100.0	6,099.1	6,090.2	6,076.7	8.3	7.6	-105.62	-78.1	-341.8	329.2	318.1	11.09	29.670	
6,200.0	6,198.9	6,190.1	6,176.2	8.4	7.7	-105.37	-74.5	-349.9	331.8	320.6	11.23	29.557	
6,300.0	6,298.8	6,290.1	6,275.8	8.4	7.8	-105.13	-71.0	-358.1	334.4	323.1	11.36	29.436	
6,400.0	6,398.6	6,390.1	6,375.3	8.5	8.0	-104.90	-67.5	-366.2	337.1	325.6	11.50	29.308	
6,500.0	6,498.4	6,490.0	6,474.9	8.6	8.1	-104.67	-64.0	-374.4	339.8	328.1	11.65	29.174	
6,600.0	6,598.2	6,590.0	6,574.5	8.7	8.2	-104.44	-60.4	-382.5	342.4	330.6	11.79	29.034	
6,700.0	6,698.0	6,689.9	6,674.0	8.8	8.3	-104.21	-56.9	-390.7	345.1	333.2	11.95	28.889	
6,800.0	6,797.9	6,789.9	6,773.6	8.9	8.4	-103.99	-53.4	-398.8	347.8	335.7	12.10	28.740	
6,900.0	6,897.7	6,889.8	6,873.1	9.0	8.5	-103.77	-49.8	-407.0	350.5	338.2	12.26	28.587	
7,000.0	6,997.5	6,989.8	6,972.7	9.1	8.6	-103.56	-46.3	-415.1	353.1	340.7	12.42	28.430	
7,100.0	7,097.3	7,089.7	7,072.3	9.2	8.8	-103.35	-42.8	-423.3	355.8	343.2	12.59	28.270	
7,200.0	7,197.1	7,189.7	7,171.8	9.2	8.9	-103.14	-39.2	-431.4	358.5	345.8	12.76	28.107	
7,300.0	7,297.0	7,289.6	7,271.4	9.3	9.0	-102.93	-35.7	-439.6	361.2	348.3	12.93	27.943	
7,400.0	7,396.8	7,389.6	7,370.9	9.4	9.1	-102.73	-32.2	-447.7	363.9	350.8	13.10	27.776	
7,500.0	7,496.6	7,489.6	7,470.5	9.5	9.2	-102.53	-28.6	-455.9	366.6	353.4	13.28	27.608	
7,600.0	7,596.4	7,589.5	7,570.1	9.6	9.3	-102.34	-25.1	-464.0	369.4	355.9	13.46	27.439	
7,700.0	7,696.3	7,689.5	7,669.6	9.7	9.5	-102.14	-21.6	-472.2	372.1	358.4	13.64	27.269	
7,800.0	7,796.1	7,789.4	7,769.2	9.8	9.6	-101.95	-18.0	-480.3	374.8	361.0	13.83	27.099	
7,900.0	7,895.9	7,889.4	7,868.7	9.9	9.7	-101.77	-14.5	-488.5	377.5	363.5	14.02	26.928	
8,000.0	7,995.7	7,989.3	7,968.3	10.0	9.8	-101.58	-11.0	-496.6	380.3	366.0	14.21	26.758	
8,100.0	8,095.5	8,089.3	8,067.9	10.1	9.9	-101.40	-7.4	-504.8	383.0	368.6	14.40	26.588	
8,200.0	8,195.4	8,189.2	8,167.4	10.2	10.1	-101.22	-3.9	-512.9	385.7	371.1	14.60	26.418	
8,300.0	8,295.2	8,289.2	8,267.0	10.3	10.2	-101.04	-0.4	-521.1	388.5	373.7	14.80	26.250	
8,400.0	8,395.0	8,389.2	8,366.5	10.4	10.3	-100.87	3.2	-529.2	391.2	376.2	15.00	26.082	
8,500.0	8,494.8	8,479.9	8,456.9	10.5	10.4	-100.69	5.4	-536.8	394.5	379.3	15.18	25.914	
8,600.0	8,594.6	8,557.3	8,533.5	10.6	10.4	-100.52	-1.6	-545.0	402.4	387.0	15.37	26.183	
8,700.0	8,694.5	8,630.9	8,604.6	10.8	10.4	-100.35	-17.6	-554.6	416.3	400.6	15.71	26.501	
8,800.0	8,794.3	8,700.0	8,668.9	10.9	10.4	-100.18	-40.6	-564.9	437.5	421.2	16.32	26.799	
8,900.0	8,894.1	8,759.6	8,721.6	11.0	10.5	-100.01	-66.6	-574.9	466.7	449.3	17.38	26.846	
9,000.0	8,993.9	8,813.6	8,766.7	11.1	10.5	-99.84	-94.7	-584.5	504.3	485.6	18.74	26.917	
9,100.0	9,093.7	8,860.9	8,803.7	11.2	10.6	-99.67	-122.6	-593.5	550.3	530.0	20.28	27.138	
9,200.0	9,193.6	8,900.0	8,832.5	11.3	10.6	-99.50	-148.0	-601.2	603.9	582.0	21.91	27.563	
9,300.0	9,293.4	8,950.0	8,866.5	11.4	10.7	-99.33	-183.2	-611.3	664.4	641.2	23.14	28.712	
9,400.0	9,393.2	8,969.6	8,879.0	11.5	10.7	-99.16	-197.8	-615.3	730.2	705.4	24.78	29.462	
9,500.0	9,493.0	9,000.0	8,897.3	11.6	10.7	-98.99	-221.2	-621.7	801.0	775.0	26.01	30.800	
9,600.0	9,592.8	9,021.2	8,909.3	11.7	10.8	-98.82	-238.2	-626.2	875.8	848.7	27.19	32.208	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #504H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
									(usft)	(usft)				
9,700.0	9,692.7	9,050.0	8,924.4	11.8	10.8	-67.48	-261.8	-632.3	954.1	926.0	28.13	33.921		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #704H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)				
0.0	0.0	7.0	7.0	3.0	3.0	89.49		2.8	310.0	310.0			
100.0	100.0	107.0	107.0	3.0	3.0	89.49		2.8	310.0	310.0	304.0	6.00	51.665
200.0	200.0	207.0	207.0	3.0	3.0	89.49		2.8	310.0	310.0	304.0	6.00	51.639
300.0	300.0	307.0	307.0	3.0	3.0	89.49		2.8	310.0	310.0	304.0	6.01	51.586
400.0	400.0	407.0	407.0	3.0	3.0	89.49		2.8	310.0	310.0	304.0	6.02	51.505
500.0	500.0	507.0	507.0	3.1	3.1	89.49		2.8	310.0	310.0	304.0	6.03	51.397
600.0	600.0	607.0	607.0	3.1	3.1	89.49		2.8	310.0	310.0	304.0	6.05	51.262
700.0	700.0	707.0	707.0	3.1	3.1	89.49		2.8	310.0	310.0	303.9	6.07	51.102
800.0	800.0	807.0	807.0	3.2	3.2	89.49		2.8	310.0	310.0	303.9	6.09	50.915
900.0	900.0	907.0	907.0	3.2	3.2	89.49		2.8	310.0	310.0	303.9	6.11	50.705
1,000.0	1,000.0	1,007.0	1,007.0	3.2	3.2	89.49		2.8	310.0	310.0	303.9	6.14	50.471
1,100.0	1,100.0	1,107.0	1,107.0	3.3	3.3	89.49		2.8	310.0	310.0	303.8	6.17	50.214
1,200.0	1,200.0	1,207.0	1,207.0	3.4	3.4	89.49		2.8	310.0	310.0	303.8	6.21	49.936
1,300.0	1,300.0	1,307.0	1,307.0	3.4	3.4	89.49		2.8	310.0	310.0	303.8	6.25	49.638
1,400.0	1,400.0	1,407.0	1,407.0	3.5	3.5	89.49		2.8	310.0	310.0	303.7	6.29	49.321
1,500.0	1,500.0	1,507.0	1,507.0	3.5	3.6	89.49		2.8	310.0	310.0	303.7	6.33	48.986
1,600.0	1,600.0	1,607.0	1,607.0	3.6	3.6	89.49		2.8	310.0	310.0	303.6	6.37	48.634
1,700.0	1,700.0	1,707.0	1,707.0	3.7	3.7	89.49		2.8	310.0	310.0	303.6	6.42	48.267
1,800.0	1,800.0	1,807.0	1,807.0	3.8	3.8	89.49		2.8	310.0	310.0	303.5	6.47	47.885
1,900.0	1,900.0	1,907.0	1,907.0	3.9	3.9	89.49		2.8	310.0	310.0	303.5	6.53	47.491
2,000.0	2,000.0	2,007.0	2,007.0	3.9	3.9	89.49		2.8	310.0	310.0	303.4	6.58	47.086
2,100.0	2,100.0	2,107.0	2,107.0	4.0	4.0	89.49		2.8	310.0	310.0	303.4	6.64	46.669
2,200.0	2,200.0	2,207.0	2,207.0	4.1	4.1	89.49		2.8	310.0	310.0	303.3	6.70	46.244
2,300.0	2,300.0	2,307.0	2,307.0	4.2	4.2	89.49		2.8	310.0	310.0	303.2	6.77	45.811
2,400.0	2,400.0	2,407.0	2,407.0	4.3	4.3	89.49		2.8	310.0	310.0	303.2	6.83	45.370
2,414.2	2,414.2	2,421.2	2,421.2	4.3	4.3	89.49		2.8	310.0	310.0	303.2	6.84	45.307 CC
2,500.0	2,500.0	2,506.3	2,506.3	4.4	4.4	89.49		2.8	310.0	310.0	303.1	6.90	44.926 ES
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	89.42		3.2	311.7	311.8	304.8	6.97	44.742 SF
2,700.0	2,700.0	2,686.9	2,686.8	4.6	4.5	89.26		4.1	315.9	316.6	309.6	7.04	44.990
2,800.0	2,800.0	2,776.7	2,776.3	4.7	4.5	89.00		5.6	323.0	324.5	317.4	7.11	45.628
2,900.0	2,900.0	2,873.6	2,872.7	4.8	4.6	88.66		7.8	332.8	334.7	327.5	7.20	46.491
3,000.0	3,000.0	2,973.1	2,971.6	4.9	4.6	88.33		10.0	343.0	345.0	337.7	7.29	47.301
3,100.0	3,100.0	3,072.5	3,070.5	5.0	4.7	88.01		12.3	353.1	355.2	347.8	7.39	48.055
3,200.0	3,200.0	3,172.0	3,169.4	5.1	4.8	87.72		14.5	363.3	365.5	358.0	7.50	48.757
3,300.0	3,300.0	3,271.4	3,268.3	5.2	4.8	87.44		16.7	373.4	375.8	368.2	7.61	49.410
3,400.0	3,400.0	3,370.9	3,367.2	5.3	4.9	87.17		18.9	383.6	386.1	378.4	7.72	50.015
3,500.0	3,500.0	3,470.3	3,466.1	5.4	5.0	86.92		21.2	393.8	396.4	388.6	7.84	50.575
3,600.0	3,600.0	3,569.8	3,565.0	5.5	5.0	86.68		23.4	403.9	406.8	398.8	7.96	51.094
3,700.0	3,700.0	3,669.2	3,663.9	5.7	5.1	86.46		25.6	414.1	417.1	409.0	8.09	51.573
3,800.0	3,800.0	3,768.7	3,762.8	5.8	5.2	86.24		27.9	424.2	427.4	419.2	8.22	52.015
3,900.0	3,900.0	3,868.1	3,861.7	5.9	5.3	86.04		30.1	434.4	437.8	429.4	8.35	52.422
4,000.0	4,000.0	3,967.6	3,960.6	6.0	5.3	85.84		32.3	444.5	448.1	439.6	8.49	52.797
4,100.0	4,100.0	4,067.0	4,059.5	6.1	5.4	85.65		34.6	454.7	458.5	449.8	8.63	53.142
4,200.0	4,200.0	4,166.5	4,158.5	6.2	5.5	85.48		36.8	464.8	468.8	460.0	8.77	53.459
4,300.0	4,300.0	4,265.9	4,257.4	6.3	5.6	85.30		39.0	475.0	479.2	470.2	8.91	53.751
4,400.0	4,400.0	4,365.4	4,356.3	6.5	5.7	85.14		41.2	485.1	489.5	480.5	9.06	54.018
4,500.0	4,500.0	4,464.8	4,455.2	6.6	5.8	84.98		43.5	495.3	499.9	490.7	9.21	54.263
4,600.0	4,600.0	4,564.3	4,554.1	6.7	5.9	84.83		45.7	505.4	510.3	500.9	9.36	54.487
4,700.0	4,700.0	4,663.7	4,653.0	6.8	5.9	84.69		47.9	515.6	520.6	511.1	9.52	54.692
4,800.0	4,800.0	4,763.2	4,751.9	6.9	6.0	84.55		50.2	525.8	531.0	521.3	9.68	54.880
4,900.0	4,900.0	4,862.7	4,850.8	7.0	6.1	84.42		52.4	535.9	541.4	531.6	9.83	55.051

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #704H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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)					
5,000.0	5,000.0	4,962.1	4,949.7	7.2	6.2	84.29	54.6	546.1	551.8	541.8	9.99	55.207	
5,100.0	5,100.0	5,061.6	5,048.6	7.3	6.3	84.16	56.9	556.2	562.2	552.0	10.16	55.348	
5,200.0	5,200.0	5,161.0	5,147.5	7.4	6.4	84.04	59.1	566.4	572.5	562.2	10.32	55.477	
5,300.0	5,300.0	5,260.5	5,246.4	7.5	6.5	83.93	61.3	576.5	582.9	572.4	10.49	55.594	
5,400.0	5,400.0	5,359.9	5,345.3	7.6	6.6	83.82	63.5	586.7	593.3	582.7	10.65	55.700	
5,500.0	5,500.0	5,459.4	5,444.2	7.8	6.7	83.71	65.8	596.8	603.7	592.9	10.82	55.796	
5,600.0	5,600.0	5,558.7	5,543.0	7.9	6.8	144.31	68.0	607.0	615.5	604.5	10.98	56.064	
5,671.8	5,671.7	5,629.7	5,613.7	7.9	6.9	144.30	69.6	614.2	625.7	614.6	11.08	56.449	
5,700.0	5,699.8	5,657.6	5,641.4	7.9	6.9	144.36	70.2	617.1	630.0	618.9	11.13	56.624	
5,800.0	5,799.7	5,756.4	5,739.6	8.0	7.0	144.57	72.4	627.2	645.3	634.0	11.28	57.223	
5,900.0	5,899.5	5,855.2	5,837.9	8.1	7.2	144.77	74.6	637.2	660.5	649.1	11.43	57.788	
6,000.0	5,999.3	5,954.0	5,936.2	8.2	7.3	144.96	76.9	647.3	675.8	664.2	11.59	58.318	
6,100.0	6,099.1	6,052.8	6,034.4	8.3	7.4	145.15	79.1	657.4	691.0	679.3	11.75	58.816	
6,200.0	6,198.9	6,151.6	6,132.7	8.4	7.5	145.32	81.3	667.5	706.3	694.4	11.91	59.284	
6,300.0	6,298.8	6,250.4	6,231.0	8.4	7.6	145.49	83.5	677.6	721.6	709.5	12.08	59.723	
6,400.0	6,398.6	6,349.2	6,329.2	8.5	7.7	145.65	85.7	687.7	736.8	724.6	12.25	60.134	
6,500.0	6,498.4	6,448.0	6,427.5	8.6	7.8	145.81	87.9	697.8	752.1	739.7	12.43	60.519	
6,600.0	6,598.2	6,546.8	6,525.8	8.7	7.9	145.95	90.1	707.9	767.4	754.8	12.61	60.880	
6,700.0	6,698.0	6,645.6	6,624.0	8.8	8.0	146.10	92.4	717.9	782.7	769.9	12.79	61.217	
6,800.0	6,797.9	6,744.4	6,722.3	8.9	8.1	146.23	94.6	728.0	798.0	785.0	12.97	61.532	
6,900.0	6,897.7	6,843.2	6,820.5	9.0	8.3	146.37	96.8	738.1	813.3	800.2	13.15	61.826	
7,000.0	6,997.5	6,942.0	6,918.8	9.1	8.4	146.49	99.0	748.2	828.6	815.3	13.34	62.100	
7,100.0	7,097.3	7,040.9	7,017.1	9.2	8.5	146.62	101.2	758.3	843.9	830.4	13.53	62.356	
7,200.0	7,197.1	7,139.7	7,115.3	9.2	8.6	146.73	103.4	768.4	859.2	845.5	13.73	62.595	
7,300.0	7,297.0	7,238.5	7,213.6	9.3	8.7	146.85	105.7	778.5	874.6	860.6	13.92	62.817	
7,400.0	7,396.8	7,337.3	7,311.9	9.4	8.8	146.96	107.9	788.6	889.9	875.8	14.12	63.024	
7,500.0	7,496.6	7,436.1	7,410.1	9.5	8.9	147.06	110.1	798.6	905.2	890.9	14.32	63.216	
7,600.0	7,596.4	7,534.9	7,508.4	9.6	9.1	147.17	112.3	808.7	920.5	906.0	14.52	63.395	
7,700.0	7,696.3	7,633.7	7,606.7	9.7	9.2	147.27	114.5	818.8	935.9	921.1	14.72	63.560	
7,800.0	7,796.1	7,732.5	7,704.9	9.8	9.3	147.36	116.7	828.9	951.2	936.3	14.93	63.714	
7,900.0	7,895.9	7,831.3	7,803.2	9.9	9.4	147.46	118.9	839.0	966.5	951.4	15.14	63.856	
8,000.0	7,995.7	7,930.1	7,901.4	10.0	9.5	147.55	121.2	849.1	981.9	966.5	15.34	63.987	
8,100.0	8,095.5	8,028.9	7,999.7	10.1	9.6	147.63	123.4	859.2	997.2	981.7	15.55	64.109	

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR		Offset		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	7.0	7.0	3.0	3.0	89.49	2.5	280.0	280.0					
100.0	100.0	107.0	107.0	3.0	3.0	89.49	2.5	280.0	280.0	274.0	6.00	46.665		
200.0	200.0	207.0	207.0	3.0	3.0	89.49	2.5	280.0	280.0	274.0	6.00	46.642		
300.0	300.0	307.0	307.0	3.0	3.0	89.49	2.5	280.0	280.0	274.0	6.01	46.594		
400.0	400.0	407.0	407.0	3.0	3.0	89.49	2.5	280.0	280.0	274.0	6.02	46.521		
500.0	500.0	507.0	507.0	3.1	3.1	89.49	2.5	280.0	280.0	274.0	6.03	46.423		
600.0	600.0	607.0	607.0	3.1	3.1	89.49	2.5	280.0	280.0	274.0	6.05	46.301		
700.0	700.0	707.0	707.0	3.1	3.1	89.49	2.5	280.0	280.0	273.9	6.07	46.156		
800.0	800.0	807.0	807.0	3.2	3.2	89.49	2.5	280.0	280.0	273.9	6.09	45.988		
900.0	900.0	907.0	907.0	3.2	3.2	89.49	2.5	280.0	280.0	273.9	6.11	45.798		
1,000.0	1,000.0	1,007.0	1,007.0	3.2	3.2	89.49	2.5	280.0	280.0	273.9	6.14	45.586		
1,100.0	1,100.0	1,107.0	1,107.0	3.3	3.3	89.49	2.5	280.0	280.0	273.8	6.17	45.355		
1,200.0	1,200.0	1,207.0	1,207.0	3.4	3.4	89.49	2.5	280.0	280.0	273.8	6.21	45.104		
1,300.0	1,300.0	1,307.0	1,307.0	3.4	3.4	89.49	2.5	280.0	280.0	273.8	6.25	44.834		
1,400.0	1,400.0	1,407.0	1,407.0	3.5	3.5	89.49	2.5	280.0	280.0	273.7	6.29	44.548		
1,500.0	1,500.0	1,507.0	1,507.0	3.5	3.6	89.49	2.5	280.0	280.0	273.7	6.33	44.245		
1,600.0	1,600.0	1,607.0	1,607.0	3.6	3.6	89.49	2.5	280.0	280.0	273.6	6.37	43.927		
1,700.0	1,700.0	1,707.0	1,707.0	3.7	3.7	89.49	2.5	280.0	280.0	273.6	6.42	43.596		
1,800.0	1,800.0	1,807.0	1,807.0	3.8	3.8	89.49	2.5	280.0	280.0	273.5	6.47	43.251		
1,900.0	1,900.0	1,907.0	1,907.0	3.9	3.9	89.49	2.5	280.0	280.0	273.5	6.53	42.895		
2,000.0	2,000.0	2,007.0	2,007.0	3.9	3.9	89.49	2.5	280.0	280.0	273.4	6.58	42.529		
2,100.0	2,100.0	2,107.0	2,107.0	4.0	4.0	89.49	2.5	280.0	280.0	273.4	6.64	42.153		
2,200.0	2,200.0	2,207.0	2,207.0	4.1	4.1	89.49	2.5	280.0	280.0	273.3	6.70	41.769		
2,300.0	2,300.0	2,307.0	2,307.0	4.2	4.2	89.49	2.5	280.0	280.0	273.2	6.77	41.377		
2,400.0	2,400.0	2,407.0	2,407.0	4.3	4.3	89.49	2.5	280.0	280.0	273.2	6.83	40.979		
2,500.0	2,500.0	2,507.0	2,507.0	4.4	4.4	89.49	2.5	280.0	280.0	273.1	6.90	40.576		
2,600.0	2,600.0	2,607.0	2,607.0	4.5	4.5	89.49	2.5	280.0	280.0	273.0	6.97	40.168		
2,700.0	2,700.0	2,707.0	2,707.0	4.6	4.6	89.49	2.5	280.0	280.0	273.0	7.04	39.757		
2,800.0	2,800.0	2,807.0	2,807.0	4.7	4.7	89.49	2.5	280.0	280.0	272.9	7.12	39.343		
2,900.0	2,900.0	2,907.0	2,907.0	4.8	4.8	89.49	2.5	280.0	280.0	272.8	7.19	38.927		
3,000.0	3,000.0	3,007.0	3,007.0	4.9	4.9	89.49	2.5	280.0	280.0	272.7	7.27	38.510		
3,100.0	3,100.0	3,107.0	3,107.0	5.0	5.0	89.49	2.5	280.0	280.0	272.7	7.35	38.092		
3,200.0	3,200.0	3,207.0	3,207.0	5.1	5.1	89.49	2.5	280.0	280.0	272.6	7.43	37.674		
3,300.0	3,300.0	3,307.0	3,307.0	5.2	5.2	89.49	2.5	280.0	280.0	272.5	7.52	37.257		
3,400.0	3,400.0	3,407.0	3,407.0	5.3	5.3	89.49	2.5	280.0	280.0	272.4	7.60	36.840		
3,500.0	3,500.0	3,507.0	3,507.0	5.4	5.4	89.49	2.5	280.0	280.0	272.3	7.69	36.426		
3,600.0	3,600.0	3,607.0	3,607.0	5.5	5.6	89.49	2.5	280.0	280.0	272.2	7.77	36.013		
3,700.0	3,700.0	3,707.0	3,707.0	5.7	5.7	89.49	2.5	280.0	280.0	272.1	7.86	35.603		
3,800.0	3,800.0	3,807.0	3,807.0	5.8	5.8	89.49	2.5	280.0	280.0	272.0	7.96	35.196		
3,900.0	3,900.0	3,907.0	3,907.0	5.9	5.9	89.49	2.5	280.0	280.0	272.0	8.05	34.792		
4,000.0	4,000.0	4,007.0	4,007.0	6.0	6.0	89.49	2.5	280.0	280.0	271.9	8.14	34.391		
4,100.0	4,100.0	4,107.0	4,107.0	6.1	6.1	89.49	2.5	280.0	280.0	271.8	8.24	33.995		
4,200.0	4,200.0	4,207.0	4,207.0	6.2	6.2	89.49	2.5	280.0	280.0	271.7	8.33	33.602		
4,300.0	4,300.0	4,307.0	4,307.0	6.3	6.3	89.49	2.5	280.0	280.0	271.6	8.43	33.213		
4,400.0	4,400.0	4,407.0	4,407.0	6.5	6.5	89.49	2.5	280.0	280.0	271.5	8.53	32.829		
4,500.0	4,500.0	4,507.0	4,507.0	6.6	6.6	89.49	2.5	280.0	280.0	271.4	8.63	32.449		
4,600.0	4,600.0	4,607.0	4,607.0	6.7	6.7	89.49	2.5	280.0	280.0	271.3	8.73	32.074		
4,700.0	4,700.0	4,707.0	4,707.0	6.8	6.8	89.49	2.5	280.0	280.0	271.2	8.83	31.704		
4,800.0	4,800.0	4,807.0	4,807.0	6.9	6.9	89.49	2.5	280.0	280.0	271.1	8.93	31.339		
4,900.0	4,900.0	4,907.0	4,907.0	7.0	7.1	89.49	2.5	280.0	280.0	271.0	9.04	30.978		
5,000.0	5,000.0	5,007.0	5,007.0	7.2	7.2	89.49	2.5	280.0	280.0	270.9	9.14	30.623		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,100.0	5,100.0	5,107.0	5,107.0	7.3	7.3	89.49	2.5	280.0	280.0	270.8	9.25	30.272	
5,200.0	5,200.0	5,207.0	5,207.0	7.4	7.4	89.49	2.5	280.0	280.0	270.6	9.36	29.927	
5,300.0	5,300.0	5,307.0	5,307.0	7.5	7.5	89.49	2.5	280.0	280.0	270.5	9.46	29.587	
5,400.0	5,400.0	5,407.0	5,407.0	7.6	7.7	89.49	2.5	280.0	280.0	270.4	9.57	29.252	
5,414.2	5,414.2	5,421.2	5,421.2	7.7	7.7	89.49	2.5	280.0	280.0	270.4	9.59	29.205 CC	
5,500.0	5,500.0	5,506.4	5,506.4	7.8	7.8	89.49	2.5	280.0	280.0	270.3	9.68	28.924 ES	
5,600.0	5,600.0	5,600.0	5,600.0	7.9	7.9	150.33	2.7	281.7	283.3	273.5	9.79	28.935	
5,671.8	5,671.7	5,663.2	5,663.1	7.9	7.9	150.51	3.0	284.6	289.5	279.6	9.89	29.280	
5,700.0	5,699.8	5,691.2	5,691.1	7.9	7.9	150.65	3.2	286.1	292.5	282.6	9.92	29.484	
5,800.0	5,799.7	5,790.6	5,790.4	8.0	7.9	151.09	3.7	291.5	303.1	293.1	10.04	30.187	
5,900.0	5,899.5	5,890.1	5,889.6	8.1	8.0	151.50	4.3	296.8	313.7	303.6	10.17	30.859	
6,000.0	5,999.3	5,989.5	5,988.9	8.2	8.0	151.89	4.9	302.2	324.4	314.1	10.30	31.501	
6,100.0	6,099.1	6,088.9	6,088.2	8.3	8.1	152.25	5.5	307.5	335.0	324.6	10.43	32.113	
6,200.0	6,198.9	6,188.3	6,187.4	8.4	8.1	152.59	6.1	312.9	345.7	335.1	10.57	32.697	
6,300.0	6,298.8	6,287.7	6,286.7	8.4	8.2	152.91	6.7	318.2	356.4	345.6	10.72	33.254	
6,400.0	6,398.6	6,387.1	6,386.0	8.5	8.3	153.21	7.3	323.6	367.0	356.2	10.86	33.784	
6,500.0	6,498.4	6,486.5	6,485.2	8.6	8.3	153.50	7.8	328.9	377.7	366.7	11.02	34.289	
6,600.0	6,598.2	6,585.9	6,584.5	8.7	8.4	153.77	8.4	334.3	388.4	377.3	11.17	34.769	
6,700.0	6,698.0	6,685.3	6,683.7	8.8	8.4	154.02	9.0	339.6	399.1	387.8	11.33	35.226	
6,800.0	6,797.9	6,784.7	6,783.0	8.9	8.5	154.26	9.6	345.0	409.9	398.4	11.49	35.661	
6,900.0	6,897.7	6,884.1	6,882.3	9.0	8.6	154.49	10.2	350.3	420.6	408.9	11.66	36.074	
7,000.0	6,997.5	6,983.6	6,981.5	9.1	8.6	154.71	10.8	355.7	431.3	419.5	11.83	36.467	
7,100.0	7,097.3	7,083.0	7,080.8	9.2	8.7	154.91	11.4	361.0	442.1	430.1	12.00	36.840	
7,200.0	7,197.1	7,182.4	7,180.1	9.2	8.8	155.11	11.9	366.4	452.8	440.6	12.17	37.194	
7,300.0	7,297.0	7,281.8	7,279.3	9.3	8.8	155.30	12.5	371.7	463.5	451.2	12.35	37.531	
7,400.0	7,396.8	7,381.2	7,378.6	9.4	8.9	155.48	13.1	377.1	474.3	461.8	12.53	37.851	
7,500.0	7,496.6	7,480.6	7,477.9	9.5	9.0	155.65	13.7	382.4	485.1	472.3	12.71	38.154	
7,600.0	7,596.4	7,580.0	7,577.1	9.6	9.1	155.81	14.3	387.8	495.8	482.9	12.90	38.443	
7,700.0	7,696.3	7,679.4	7,676.4	9.7	9.1	155.97	14.9	393.1	506.6	493.5	13.08	38.717	
7,800.0	7,796.1	7,778.8	7,775.6	9.8	9.2	156.12	15.4	398.5	517.3	504.1	13.27	38.977	
7,900.0	7,895.9	7,878.2	7,874.9	9.9	9.3	156.26	16.0	403.8	528.1	514.7	13.46	39.224	
8,000.0	7,995.7	7,977.7	7,974.2	10.0	9.4	156.40	16.6	409.2	538.9	525.2	13.66	39.458	
8,100.0	8,095.5	8,077.1	8,073.4	10.1	9.5	156.54	17.2	414.5	549.7	535.8	13.85	39.681	
8,200.0	8,195.4	8,176.5	8,172.7	10.2	9.5	156.66	17.8	419.9	560.5	546.4	14.05	39.892	
8,300.0	8,295.2	8,275.9	8,272.0	10.3	9.6	156.79	18.4	425.2	571.2	557.0	14.25	40.093	
8,400.0	8,395.0	8,375.3	8,371.2	10.4	9.7	156.91	19.0	430.6	582.0	567.6	14.45	40.283	
8,500.0	8,494.8	8,474.7	8,470.5	10.5	9.8	157.02	19.5	435.9	592.8	578.2	14.65	40.464	
8,600.0	8,594.6	8,574.1	8,569.8	10.6	9.9	157.13	20.1	441.3	603.6	588.7	14.85	40.636	
8,700.0	8,694.5	8,673.5	8,669.0	10.8	10.0	157.24	20.7	446.6	614.4	599.3	15.06	40.799	
8,800.0	8,794.3	8,772.9	8,768.3	10.9	10.1	157.34	21.3	452.0	625.2	609.9	15.27	40.954	
8,900.0	8,894.1	8,872.3	8,867.5	11.0	10.2	157.44	21.9	457.3	636.0	620.5	15.47	41.101	
9,000.0	8,993.9	8,971.7	8,966.8	11.1	10.2	157.53	22.5	462.7	646.8	631.1	15.68	41.241	
9,100.0	9,093.7	9,071.2	9,066.1	11.2	10.3	157.63	23.1	468.0	657.6	641.7	15.89	41.374	
9,200.0	9,193.6	9,170.6	9,165.3	11.3	10.4	157.72	23.6	473.4	668.4	652.3	16.11	41.500	
9,300.0	9,293.4	9,270.0	9,264.6	11.4	10.5	157.80	24.2	478.7	679.2	662.9	16.32	41.619	
9,400.0	9,393.2	9,369.4	9,363.9	11.5	10.6	157.89	24.8	484.1	690.0	673.5	16.53	41.733	
9,500.0	9,493.0	9,468.8	9,463.1	11.6	10.7	157.97	25.4	489.4	700.8	684.0	16.75	41.841	
9,600.0	9,592.8	9,568.2	9,562.4	11.7	10.8	158.05	26.0	494.8	711.6	694.6	16.97	41.943	
9,700.0	9,692.7	9,667.6	9,661.7	11.8	10.9	158.12	26.6	500.1	722.4	705.2	17.18	42.041	
9,800.0	9,792.5	9,767.0	9,760.9	11.9	11.0	158.20	27.2	505.5	733.2	715.8	17.40	42.133	
9,900.0	9,892.3	9,866.4	9,860.2	12.1	11.1	158.27	27.7	510.8	744.0	726.4	17.62	42.221	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR		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	
10,000.0	9,992.1	9,965.8	9,959.4	12.2	11.2	158.34	28.3	516.2	754.8	737.0	17.84	42.304		
10,100.0	10,091.9	10,065.3	10,058.7	12.3	11.3	158.41	28.9	521.5	765.7	747.6	18.06	42.384		
10,194.3	10,186.1	10,159.0	10,152.4	12.4	11.4	158.47	29.5	526.6	775.9	757.5	18.32	42.351		
10,200.0	10,191.8	10,164.7	10,158.0	12.4	11.4	169.33	29.5	526.9	776.5	758.1	18.33	42.368		
10,225.0	10,216.7	10,189.5	10,182.8	12.4	11.4	-138.10	29.6	528.2	779.0	760.7	18.36	42.441		
10,250.0	10,241.6	10,214.0	10,207.2	12.4	11.5	-112.50	29.8	529.5	781.4	763.0	18.38	42.522		
10,275.0	10,266.4	10,234.2	10,227.4	12.4	11.5	-101.98	29.4	530.6	783.7	765.3	18.40	42.593		
10,300.0	10,291.1	10,254.4	10,247.6	12.4	11.5	-96.61	28.2	531.7	785.9	767.5	18.42	42.657		
10,325.0	10,315.4	10,275.0	10,268.0	12.4	11.5	-93.41	26.0	532.8	788.1	769.7	18.45	42.716		
10,350.0	10,339.5	10,295.2	10,288.0	12.4	11.5	-91.30	23.1	533.9	790.3	771.8	18.48	42.764		
10,375.0	10,363.2	10,315.7	10,308.1	12.4	11.5	-89.82	19.2	535.0	792.4	773.8	18.51	42.808		
10,400.0	10,386.4	10,336.4	10,328.1	12.4	11.5	-88.74	14.5	536.1	794.4	775.8	18.54	42.847		
10,425.0	10,409.1	10,357.1	10,348.1	12.4	11.5	-87.93	8.8	537.3	796.4	777.8	18.57	42.881		
10,450.0	10,431.3	10,378.0	10,367.8	12.4	11.5	-87.31	2.3	538.4	798.3	779.7	18.60	42.910		
10,475.0	10,452.8	10,400.0	10,388.4	12.5	11.5	-86.86	-5.6	539.5	800.1	781.5	18.63	42.950		
10,500.0	10,473.6	10,420.1	10,406.8	12.5	11.5	-86.49	-13.5	540.6	801.9	783.2	18.67	42.953		
10,525.0	10,493.7	10,441.3	10,425.9	12.5	11.5	-86.22	-22.8	541.6	803.6	784.9	18.70	42.967		
10,550.0	10,512.9	10,462.8	10,444.7	12.5	11.5	-86.04	-33.0	542.7	805.2	786.5	18.74	42.975		
10,575.0	10,531.3	10,484.4	10,463.2	12.5	11.5	-85.92	-44.1	543.8	806.8	788.0	18.77	42.977		
10,600.0	10,548.8	10,506.2	10,481.3	12.6	11.5	-85.86	-56.2	544.8	808.3	789.4	18.81	42.970		
10,625.0	10,565.4	10,528.1	10,499.0	12.6	11.6	-85.84	-69.2	545.9	809.7	790.8	18.85	42.954		
10,650.0	10,580.9	10,550.0	10,516.0	12.6	11.6	-85.87	-82.9	546.9	811.0	792.1	18.89	42.924		
10,675.0	10,595.4	10,572.7	10,532.9	12.6	11.6	-85.95	-98.0	547.9	812.3	793.3	18.94	42.887		
10,700.0	10,608.9	10,595.3	10,549.1	12.6	11.6	-86.07	-113.7	548.9	813.4	794.4	18.99	42.831		
10,725.0	10,621.2	10,618.2	10,564.7	12.7	11.6	-86.22	-130.5	549.8	814.5	795.5	19.05	42.759		
10,750.0	10,632.3	10,641.3	10,579.6	12.7	11.7	-86.40	-148.1	550.7	815.5	796.4	19.11	42.668		
10,775.0	10,642.3	10,664.7	10,593.8	12.7	11.7	-86.62	-166.7	551.6	816.5	797.3	19.19	42.556		
10,800.0	10,651.0	10,688.4	10,607.2	12.7	11.7	-86.86	-186.1	552.5	817.3	798.0	19.27	42.422		
10,825.0	10,658.5	10,712.3	10,619.8	12.8	11.8	-87.14	-206.5	553.3	818.1	798.7	19.36	42.262		
10,850.0	10,664.8	10,736.6	10,631.5	12.8	11.8	-87.44	-227.7	554.0	818.7	799.3	19.46	42.077		
10,875.0	10,669.8	10,761.2	10,642.2	12.8	11.8	-87.76	-249.8	554.7	819.3	799.8	19.57	41.865		
10,900.0	10,673.5	10,786.1	10,651.9	12.8	11.8	-88.12	-272.8	555.4	819.8	800.1	19.69	41.627		
10,925.0	10,675.9	10,811.3	10,660.5	12.9	11.9	-88.49	-296.5	556.0	820.2	800.4	19.83	41.361		
10,950.0	10,677.0	10,837.0	10,668.0	12.9	11.9	-88.89	-321.0	556.6	820.5	800.6	19.98	41.069		
10,958.5	10,677.0	10,845.7	10,670.2	12.9	11.9	-89.03	-329.5	556.8	820.6	800.6	20.03	40.965		
11,000.0	10,677.0	10,889.7	10,679.1	12.9	12.0	-89.65	-372.5	557.5	821.0	800.7	20.32	40.407		
11,100.0	10,677.0	10,996.2	10,685.0	13.0	12.1	-90.07	-478.8	558.5	821.3	800.2	21.12	38.893		
11,200.0	10,677.0	11,096.2	10,685.0	13.2	12.3	-90.07	-578.7	559.1	821.3	799.3	22.01	37.320		
11,300.0	10,677.0	11,196.2	10,685.0	13.3	12.5	-90.07	-678.7	559.8	821.3	798.3	22.99	35.722		
11,400.0	10,677.0	11,296.2	10,685.0	13.6	12.8	-90.07	-778.7	560.4	821.3	797.2	24.06	34.136		
11,500.0	10,677.0	11,396.2	10,685.0	13.9	13.2	-90.07	-878.7	561.0	821.3	796.1	25.20	32.591		
11,600.0	10,677.0	11,496.2	10,685.0	14.3	13.6	-90.07	-978.7	561.6	821.3	794.9	26.40	31.106		
11,700.0	10,677.0	11,596.2	10,685.0	14.7	14.1	-90.07	-1,078.7	562.3	821.3	793.7	27.66	29.690		
11,800.0	10,677.0	11,696.2	10,685.0	15.2	14.7	-90.07	-1,178.7	562.9	821.3	792.4	28.97	28.351		
11,900.0	10,677.0	11,796.2	10,685.0	15.8	15.2	-90.07	-1,278.7	563.5	821.3	791.0	30.32	27.091		
12,000.0	10,677.0	11,896.2	10,685.0	16.4	15.9	-90.07	-1,378.7	564.2	821.3	789.6	31.70	25.907		
12,100.0	10,677.0	11,996.2	10,685.0	17.1	16.5	-90.07	-1,478.7	564.8	821.3	788.2	33.12	24.800		
12,200.0	10,677.0	12,096.2	10,685.0	17.8	17.2	-90.07	-1,578.7	565.4	821.4	786.8	34.56	23.763		
12,300.0	10,677.0	12,196.2	10,685.0	18.5	17.9	-90.07	-1,678.7	566.1	821.4	785.3	36.03	22.795		
12,400.0	10,677.0	12,296.2	10,685.0	19.2	18.6	-90.07	-1,778.7	566.7	821.4	783.8	37.52	21.889		
12,500.0	10,677.0	12,396.2	10,685.0	20.0	19.3	-90.07	-1,878.7	567.3	821.4	782.3	39.03	21.043		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program:		0-Standard Keeper 104, 10212-MWD+IFR1+FDIR							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	
12,600.0	10,677.0	12,496.2	10,685.0	20.7	20.1	-90.07	-1,978.7	567.9	821.4	780.8	40.56	20.251		
12,700.0	10,677.0	12,596.2	10,685.0	21.5	20.8	-90.07	-2,078.7	568.6	821.4	779.3	42.10	19.509		
12,800.0	10,677.0	12,696.2	10,685.0	22.2	21.6	-90.07	-2,178.7	569.2	821.4	777.7	43.66	18.814		
12,900.0	10,677.0	12,796.2	10,685.0	23.0	22.3	-90.07	-2,278.7	569.8	821.4	776.2	45.23	18.162		
13,000.0	10,677.0	12,896.2	10,685.0	23.8	23.1	-90.07	-2,378.7	570.5	821.4	774.6	46.80	17.550		
13,100.0	10,677.0	12,996.2	10,685.0	24.6	23.9	-90.07	-2,478.7	571.1	821.4	773.0	48.39	16.974		
13,200.0	10,677.0	13,096.2	10,685.0	25.4	24.7	-90.07	-2,578.7	571.7	821.4	771.4	49.99	16.431		
13,300.0	10,677.0	13,196.2	10,685.0	26.2	25.5	-90.07	-2,678.7	572.4	821.4	769.8	51.60	15.920		
13,400.0	10,677.0	13,296.2	10,685.0	27.0	26.3	-90.07	-2,778.7	573.0	821.4	768.2	53.21	15.438		
13,500.0	10,677.0	13,396.2	10,685.0	27.8	27.1	-90.07	-2,878.7	573.6	821.4	766.6	54.83	14.982		
13,600.0	10,677.0	13,496.2	10,685.0	28.6	27.9	-90.07	-2,978.7	574.2	821.4	765.0	56.45	14.551		
13,700.0	10,677.0	13,596.2	10,685.0	29.4	28.7	-90.07	-3,078.7	574.9	821.4	763.4	58.09	14.142		
13,800.0	10,677.0	13,696.2	10,685.0	30.2	29.5	-90.07	-3,178.7	575.5	821.5	761.7	59.72	13.755		
13,900.0	10,677.0	13,796.2	10,685.0	31.1	30.3	-90.07	-3,278.7	576.1	821.5	760.1	61.36	13.387		
14,000.0	10,677.0	13,896.2	10,685.0	31.9	31.2	-90.07	-3,378.7	576.8	821.5	758.5	63.01	13.037		
14,100.0	10,677.0	13,996.2	10,685.0	32.7	32.0	-90.07	-3,478.7	577.4	821.5	756.8	64.66	12.705		
14,200.0	10,677.0	14,096.2	10,685.0	33.5	32.8	-90.07	-3,578.7	578.0	821.5	755.2	66.31	12.388		
14,300.0	10,677.0	14,196.2	10,685.0	34.4	33.6	-90.07	-3,678.7	578.6	821.5	753.5	67.97	12.086		
14,400.0	10,677.0	14,296.2	10,685.0	35.2	34.5	-90.07	-3,778.7	579.3	821.5	751.9	69.63	11.798		
14,500.0	10,677.0	14,396.2	10,685.0	36.0	35.3	-90.07	-3,878.7	579.9	821.5	750.2	71.29	11.523		
14,600.0	10,677.0	14,496.2	10,685.0	36.9	36.1	-90.07	-3,978.7	580.5	821.5	748.5	72.96	11.260		
14,700.0	10,677.0	14,596.2	10,685.0	37.7	37.0	-90.07	-4,078.7	581.2	821.5	746.9	74.63	11.008		
14,800.0	10,677.0	14,696.2	10,685.0	38.5	37.8	-90.07	-4,178.7	581.8	821.5	745.2	76.30	10.767		
14,900.0	10,677.0	14,796.2	10,685.0	39.4	38.6	-90.07	-4,278.7	582.4	821.5	743.6	77.97	10.536		
15,000.0	10,677.0	14,896.2	10,685.0	40.2	39.5	-90.07	-4,378.7	583.1	821.5	741.9	79.65	10.315		
15,100.0	10,677.0	14,996.2	10,685.0	41.0	40.3	-90.07	-4,478.7	583.7	821.5	740.2	81.32	10.102		
15,200.0	10,677.0	15,096.2	10,685.0	41.9	41.1	-90.07	-4,578.7	584.3	821.5	738.5	83.00	9.898		
15,300.0	10,677.0	15,196.2	10,685.0	42.7	42.0	-90.07	-4,678.7	584.9	821.6	736.9	84.68	9.701		
15,400.0	10,677.0	15,296.2	10,685.0	43.6	42.8	-90.07	-4,778.7	585.6	821.6	735.2	86.37	9.512		
15,500.0	10,677.0	15,396.2	10,685.0	44.4	43.7	-90.07	-4,878.7	586.2	821.6	733.5	88.05	9.330		
15,600.0	10,677.0	15,496.2	10,685.0	45.2	44.5	-90.07	-4,978.7	586.8	821.6	731.8	89.74	9.155		
15,700.0	10,677.0	15,596.2	10,685.0	46.1	45.3	-90.07	-5,078.7	587.5	821.6	730.2	91.42	8.986		
15,800.0	10,677.0	15,696.2	10,685.0	46.9	46.2	-90.07	-5,178.7	588.1	821.6	728.5	93.11	8.823		
15,900.0	10,677.0	15,796.2	10,685.0	47.8	47.0	-90.07	-5,278.7	588.7	821.6	726.8	94.80	8.666		
16,000.0	10,677.0	15,896.2	10,685.0	48.6	47.9	-90.07	-5,378.7	589.4	821.6	725.1	96.49	8.515		
16,100.0	10,677.0	15,996.2	10,685.0	49.5	48.7	-90.07	-5,478.7	590.0	821.6	723.4	98.19	8.368		
16,200.0	10,677.0	16,096.2	10,685.0	50.3	49.6	-90.07	-5,578.7	590.6	821.6	721.7	99.88	8.226		
16,300.0	10,677.0	16,196.2	10,685.0	51.2	50.4	-90.07	-5,678.6	591.2	821.6	720.0	101.57	8.089		
16,400.0	10,677.0	16,296.2	10,685.0	52.0	51.3	-90.07	-5,778.6	591.9	821.6	718.4	103.27	7.956		
16,500.0	10,677.0	16,396.2	10,685.0	52.9	52.1	-90.07	-5,878.6	592.5	821.6	716.7	104.96	7.828		
16,600.0	10,677.0	16,496.2	10,685.0	53.7	53.0	-90.07	-5,978.6	593.1	821.6	715.0	106.66	7.703		
16,700.0	10,677.0	16,596.2	10,685.0	54.6	53.8	-90.07	-6,078.6	593.8	821.6	713.3	108.36	7.583		
16,800.0	10,677.0	16,696.2	10,685.0	55.4	54.7	-90.07	-6,178.6	594.4	821.6	711.6	110.06	7.466		
16,900.0	10,677.0	16,796.2	10,685.0	56.3	55.5	-90.07	-6,278.6	595.0	821.7	709.9	111.76	7.352		
17,000.0	10,677.0	16,896.2	10,685.0	57.1	56.4	-90.07	-6,378.6	595.7	821.7	708.2	113.46	7.242		
17,100.0	10,677.0	16,996.2	10,685.0	58.0	57.2	-90.07	-6,478.6	596.3	821.7	706.5	115.16	7.135		
17,200.0	10,677.0	17,096.2	10,685.0	58.8	58.1	-90.07	-6,578.6	596.9	821.7	704.8	116.86	7.031		
17,300.0	10,677.0	17,196.2	10,685.0	59.7	58.9	-90.07	-6,678.6	597.5	821.7	703.1	118.56	6.930		
17,400.0	10,677.0	17,296.2	10,685.0	60.5	59.8	-90.07	-6,778.6	598.2	821.7	701.4	120.26	6.832		
17,500.0	10,677.0	17,396.2	10,685.0	61.4	60.6	-90.07	-6,878.6	598.8	821.7	699.7	121.97	6.737		
17,600.0	10,677.0	17,496.2	10,685.0	62.2	61.5	-90.07	-6,978.6	599.4	821.7	698.0	123.67	6.644		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #705H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10212-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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	
17,700.0	10,677.0	17,596.2	10,685.0	63.1	62.3	-90.07	-7,078.6	600.1	821.7	696.3	125.37	6.554	
17,800.0	10,677.0	17,696.2	10,685.0	63.9	63.2	-90.07	-7,178.6	600.7	821.7	694.6	127.08	6.466	
17,900.0	10,677.0	17,796.2	10,685.0	64.8	64.0	-90.07	-7,278.6	601.3	821.7	692.9	128.78	6.381	
18,000.0	10,677.0	17,896.2	10,685.0	65.6	64.9	-90.07	-7,378.6	602.0	821.7	691.2	130.49	6.297	
18,100.0	10,677.0	17,996.2	10,685.0	66.5	65.7	-90.07	-7,478.6	602.6	821.7	689.5	132.20	6.216	
18,200.0	10,677.0	18,096.2	10,685.0	67.3	66.6	-90.07	-7,578.6	603.2	821.7	687.8	133.90	6.137	
18,300.0	10,677.0	18,196.2	10,685.0	68.2	67.4	-90.07	-7,678.6	603.8	821.7	686.1	135.61	6.060	
18,400.0	10,677.0	18,296.2	10,685.0	69.0	68.3	-90.07	-7,778.6	604.5	821.7	684.4	137.32	5.984	
18,500.0	10,677.0	18,396.2	10,685.0	69.9	69.2	-90.07	-7,878.6	605.1	821.8	682.7	139.02	5.911	
18,600.0	10,677.0	18,496.2	10,685.0	70.7	70.0	-90.07	-7,978.6	605.7	821.8	681.0	140.73	5.839	
18,700.0	10,677.0	18,596.2	10,685.0	71.6	70.9	-90.07	-8,078.6	606.4	821.8	679.3	142.44	5.769	
18,800.0	10,677.0	18,696.2	10,685.0	72.4	71.7	-90.07	-8,178.6	607.0	821.8	677.6	144.15	5.701	
18,900.0	10,677.0	18,796.2	10,685.0	73.3	72.6	-90.07	-8,278.6	607.6	821.8	675.9	145.86	5.634	
19,000.0	10,677.0	18,896.2	10,685.0	74.1	73.4	-90.07	-8,378.6	608.2	821.8	674.2	147.57	5.569	
19,100.0	10,677.0	18,996.2	10,685.0	75.0	74.3	-90.07	-8,478.6	608.9	821.8	672.5	149.28	5.505	
19,200.0	10,677.0	19,096.2	10,685.0	75.9	75.1	-90.07	-8,578.6	609.5	821.8	670.8	150.99	5.443	
19,300.0	10,677.0	19,196.2	10,685.0	76.7	76.0	-90.07	-8,678.6	610.1	821.8	669.1	152.70	5.382	
19,400.0	10,677.0	19,296.2	10,685.0	77.6	76.8	-90.07	-8,778.6	610.8	821.8	667.4	154.41	5.322	
19,500.0	10,677.0	19,396.2	10,685.0	78.4	77.7	-90.07	-8,878.6	611.4	821.8	665.7	156.12	5.264	
19,600.0	10,677.0	19,496.2	10,685.0	79.3	78.6	-90.07	-8,978.6	612.0	821.8	664.0	157.83	5.207	
19,700.0	10,677.0	19,596.2	10,685.0	80.1	79.4	-90.07	-9,078.6	612.7	821.8	662.3	159.54	5.151	
19,800.0	10,677.0	19,696.2	10,685.0	81.0	80.3	-90.07	-9,178.6	613.3	821.8	660.6	161.25	5.097	
19,900.0	10,677.0	19,796.2	10,685.0	81.8	81.1	-90.07	-9,278.6	613.9	821.8	658.9	162.97	5.043	
20,000.0	10,677.0	19,896.2	10,685.0	82.7	82.0	-90.07	-9,378.6	614.5	821.8	657.2	164.68	4.991	
20,100.0	10,677.0	19,996.2	10,685.0	83.6	82.8	-90.07	-9,478.6	615.2	821.9	655.5	166.39	4.939	
20,200.0	10,677.0	20,096.2	10,685.0	84.4	83.7	-90.07	-9,578.6	615.8	821.9	653.8	168.10	4.889	
20,300.0	10,677.0	20,196.2	10,685.0	85.3	84.6	-90.07	-9,678.6	616.4	821.9	652.1	169.82	4.840	
20,400.0	10,677.0	20,296.2	10,685.0	86.1	85.4	-90.07	-9,778.6	617.1	821.9	650.3	171.53	4.791	
20,500.0	10,677.0	20,396.2	10,685.0	87.0	86.3	-90.07	-9,878.6	617.7	821.9	648.6	173.24	4.744	
20,600.0	10,677.0	20,496.2	10,685.0	87.8	87.1	-90.07	-9,978.6	618.3	821.9	646.9	174.96	4.698	
20,700.0	10,677.0	20,596.2	10,685.0	88.7	88.0	-90.07	-10,078.6	619.0	821.9	645.2	176.67	4.652	
20,800.0	10,677.0	20,696.2	10,685.0	89.5	88.8	-90.07	-10,178.6	619.6	821.9	643.5	178.38	4.607	
20,828.5	10,677.0	20,724.7	10,685.0	89.8	89.1	-90.07	-10,207.1	619.8	821.9	643.0	178.87	4.595	
20,829.4	10,677.0	20,725.1	10,685.0	89.8	89.1	-90.07	-10,207.4	619.8	821.9	643.0	178.88	4.595 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

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Anticollision Report

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Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	6.0	6.0	3.0	3.0	89.48		2.2	250.0	250.0				
100.0	100.0	106.0	106.0	3.0	3.0	89.48		2.2	250.0	250.0	244.0	6.00	41.671	
200.0	200.0	206.0	206.0	3.0	3.0	89.48		2.2	250.0	250.0	244.0	6.00	41.651	
300.0	300.0	306.0	306.0	3.0	3.0	89.48		2.2	250.0	250.0	244.0	6.01	41.608	
400.0	400.0	406.0	406.0	3.0	3.0	89.48		2.2	250.0	250.0	244.0	6.02	41.543	
500.0	500.0	506.0	506.0	3.1	3.1	89.48		2.2	250.0	250.0	244.0	6.03	41.456	
600.0	600.0	606.0	606.0	3.1	3.1	89.48		2.2	250.0	250.0	244.0	6.05	41.347	
700.0	700.0	706.0	706.0	3.1	3.1	89.48		2.2	250.0	250.0	244.0	6.07	41.218	
800.0	800.0	806.0	806.0	3.2	3.2	89.48		2.2	250.0	250.0	244.0	6.09	41.068	
900.0	900.0	906.0	906.0	3.2	3.2	89.48		2.2	250.0	250.0	243.9	6.11	40.898	
1,000.0	1,000.0	1,006.0	1,006.0	3.2	3.2	89.48		2.2	250.0	250.0	243.9	6.14	40.710	
1,100.0	1,100.0	1,106.0	1,106.0	3.3	3.3	89.48		2.2	250.0	250.0	243.9	6.17	40.503	
1,200.0	1,200.0	1,206.0	1,206.0	3.4	3.4	89.48		2.2	250.0	250.0	243.8	6.21	40.279	
1,300.0	1,300.0	1,306.0	1,306.0	3.4	3.4	89.48		2.2	250.0	250.0	243.8	6.25	40.038	
1,400.0	1,400.0	1,406.0	1,406.0	3.5	3.5	89.48		2.2	250.0	250.0	243.8	6.29	39.782	
1,500.0	1,500.0	1,506.0	1,506.0	3.5	3.6	89.48		2.2	250.0	250.0	243.7	6.33	39.512	
1,600.0	1,600.0	1,606.0	1,606.0	3.6	3.6	89.48		2.2	250.0	250.0	243.7	6.37	39.228	
1,700.0	1,700.0	1,706.0	1,706.0	3.7	3.7	89.48		2.2	250.0	250.0	243.6	6.42	38.932	
1,800.0	1,800.0	1,806.0	1,806.0	3.8	3.8	89.48		2.2	250.0	250.0	243.6	6.47	38.625	
1,900.0	1,900.0	1,906.0	1,906.0	3.9	3.9	89.48		2.2	250.0	250.0	243.5	6.53	38.307	
2,000.0	2,000.0	2,006.0	2,006.0	3.9	3.9	89.48		2.2	250.0	250.0	243.5	6.58	37.980	
2,100.0	2,100.0	2,106.0	2,106.0	4.0	4.0	89.48		2.2	250.0	250.0	243.4	6.64	37.644	
2,200.0	2,200.0	2,206.0	2,206.0	4.1	4.1	89.48		2.2	250.0	250.0	243.3	6.70	37.301	
2,300.0	2,300.0	2,306.0	2,306.0	4.2	4.2	89.48		2.2	250.0	250.0	243.3	6.77	36.951	
2,400.0	2,400.0	2,406.0	2,406.0	4.3	4.3	89.48		2.2	250.0	250.0	243.2	6.83	36.596	
2,500.0	2,500.0	2,506.3	2,506.3	4.4	4.4	89.48		2.3	250.0	250.0	243.1	6.90	36.235	
2,600.0	2,600.0	2,611.7	2,611.6	4.5	4.5	89.08		4.0	248.7	248.8	241.9	6.97	35.689	
2,700.0	2,700.0	2,715.9	2,715.7	4.6	4.6	87.96		8.7	245.2	245.6	238.5	7.05	34.849	
2,800.0	2,800.0	2,815.7	2,815.2	4.7	4.7	86.60		14.3	241.1	241.7	234.6	7.12	33.924	
2,900.0	2,900.0	2,915.4	2,914.7	4.8	4.8	85.19		19.9	236.9	237.9	230.7	7.21	33.019	
3,000.0	3,000.0	3,015.2	3,014.3	4.9	4.8	83.74		25.5	232.8	234.3	227.0	7.29	32.132	
3,100.0	3,100.0	3,114.9	3,113.8	5.0	4.9	82.25		31.1	228.6	230.9	223.5	7.38	31.265	
3,200.0	3,200.0	3,214.7	3,213.3	5.1	5.0	80.71		36.7	224.5	227.6	220.1	7.48	30.416	
3,300.0	3,300.0	3,314.5	3,312.8	5.2	5.1	79.13		42.3	220.4	224.5	216.9	7.59	29.584	
3,400.0	3,400.0	3,414.2	3,412.3	5.3	5.2	77.51		47.9	216.2	221.6	213.8	7.70	28.769	
3,500.0	3,500.0	3,514.0	3,511.8	5.4	5.3	75.85		53.5	212.1	218.8	211.0	7.82	27.971	
3,600.0	3,600.0	3,613.7	3,611.3	5.5	5.4	74.14		59.1	207.9	216.2	208.3	7.95	27.189	
3,700.0	3,700.0	3,713.5	3,710.8	5.7	5.5	72.40		64.7	203.8	213.9	205.8	8.09	26.424	
3,800.0	3,800.0	3,813.2	3,810.4	5.8	5.6	70.61		70.3	199.7	211.7	203.5	8.25	25.675	
3,900.0	3,900.0	3,913.0	3,909.9	5.9	5.7	68.80		75.8	195.5	209.7	201.3	8.41	24.945	
4,000.0	4,000.0	4,012.7	4,009.4	6.0	5.8	66.95		81.4	191.4	208.0	199.4	8.58	24.232	
4,100.0	4,100.0	4,112.5	4,108.9	6.1	5.9	65.07		87.0	187.2	206.5	197.7	8.77	23.540	
4,200.0	4,200.0	4,212.3	4,208.4	6.2	6.0	63.16		92.6	183.1	205.2	196.2	8.97	22.868	
4,300.0	4,300.0	4,312.0	4,307.9	6.3	6.1	61.24		98.2	178.9	204.1	194.9	9.19	22.218	
4,400.0	4,400.0	4,411.8	4,407.4	6.5	6.2	59.30		103.8	174.8	203.3	193.9	9.42	21.593	
4,500.0	4,500.0	4,511.5	4,507.0	6.6	6.4	57.34		109.4	170.7	202.7	193.1	9.66	20.993	
4,600.0	4,600.0	4,611.3	4,606.5	6.7	6.5	55.37		115.0	166.5	202.4	192.5	9.91	20.420	
4,696.6	4,696.6	4,707.6	4,702.6	6.8	6.6	53.47		120.4	162.5	202.2	192.1	10.17	19.894 CC	
4,700.0	4,700.0	4,711.0	4,706.0	6.8	6.6	53.40		120.6	162.4	202.2	192.1	10.18	19.876	
4,800.0	4,800.0	4,810.8	4,805.5	6.9	6.7	51.43		126.2	158.2	202.4	191.9	10.45	19.360 ES	
4,900.0	4,900.0	4,910.6	4,905.0	7.0	6.8	49.47		131.8	154.1	202.7	192.0	10.74	18.876	

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

ConocoPhillips

Anticollision Report

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Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Between Ellipses (usft)			
5,000.0	5,000.0	5,010.7	5,005.0	7.2	6.9	47.81	136.5	150.6	203.2	192.2	11.01	18.457	
5,100.0	5,100.0	5,111.0	5,105.2	7.3	7.0	46.65	139.8	148.1	203.7	192.4	11.25	18.111	
5,200.0	5,200.0	5,211.4	5,205.6	7.4	7.1	45.99	141.7	146.7	204.0	192.5	11.45	17.820	
5,300.0	5,300.0	5,311.8	5,306.0	7.5	7.2	45.81	142.2	146.3	204.1	192.4	11.62	17.556	
5,400.0	5,400.0	5,411.8	5,406.0	7.6	7.4	45.81	142.2	146.3	204.1	192.3	11.80	17.297	
5,500.0	5,500.0	5,511.8	5,506.0	7.8	7.5	45.81	142.2	146.3	204.1	192.1	11.97	17.043	
5,600.0	5,600.0	5,611.8	5,606.0	7.9	7.6	107.01	142.2	146.3	204.6	192.5	12.07	16.947	
5,671.8	5,671.7	5,683.6	5,677.7	7.9	7.7	107.90	142.2	146.3	205.6	193.5	12.06	17.045	
5,700.0	5,699.8	5,711.7	5,705.8	7.9	7.7	108.34	142.2	146.3	206.1	194.1	12.05	17.107	
5,800.0	5,799.7	5,811.5	5,805.7	8.0	7.8	109.91	142.2	146.3	208.1	196.1	12.01	17.333	
5,900.0	5,899.5	5,911.3	5,905.5	8.1	7.9	111.44	142.2	146.3	210.2	198.2	11.96	17.571	
6,000.0	5,999.3	6,011.1	6,005.3	8.2	8.1	112.94	142.2	146.3	212.5	200.6	11.92	17.820	
6,100.0	6,099.1	6,111.0	6,105.1	8.3	8.2	114.41	142.2	146.3	214.9	203.0	11.89	18.076	
6,200.0	6,198.9	6,210.8	6,204.9	8.4	8.3	115.85	142.2	146.3	217.4	205.6	11.86	18.339	
6,300.0	6,298.8	6,310.6	6,304.8	8.4	8.4	117.25	142.2	146.3	220.1	208.3	11.83	18.605	
6,400.0	6,398.6	6,410.4	6,404.6	8.5	8.5	118.62	142.2	146.3	222.9	211.1	11.81	18.873	
6,500.0	6,498.4	6,510.2	6,504.4	8.6	8.7	119.95	142.2	146.3	225.9	214.1	11.80	19.140	
6,600.0	6,598.2	6,610.1	6,604.2	8.7	8.8	121.25	142.2	146.3	228.9	217.1	11.80	19.405	
6,700.0	6,698.0	6,709.9	6,704.0	8.8	8.9	122.52	142.2	146.3	232.1	220.3	11.80	19.666	
6,800.0	6,797.9	6,809.7	6,803.9	8.9	9.0	123.74	142.2	146.3	235.4	223.6	11.82	19.921	
6,900.0	6,897.7	6,909.5	6,903.7	9.0	9.1	124.94	142.2	146.3	238.8	226.9	11.84	20.168	
7,000.0	6,997.5	7,009.3	7,003.5	9.1	9.3	126.10	142.2	146.3	242.3	230.4	11.87	20.406	
7,100.0	7,097.3	7,109.2	7,103.3	9.2	9.4	127.23	142.2	146.3	245.8	233.9	11.91	20.634	
7,200.0	7,197.1	7,209.0	7,203.1	9.2	9.5	128.32	142.2	146.3	249.5	237.5	11.97	20.851	
7,300.0	7,297.0	7,308.8	7,303.0	9.3	9.6	129.38	142.2	146.3	253.3	241.2	12.03	21.056	
7,400.0	7,396.8	7,408.6	7,402.8	9.4	9.8	130.42	142.2	146.3	257.1	245.0	12.10	21.250	
7,500.0	7,496.6	7,508.5	7,502.6	9.5	9.9	131.42	142.2	146.3	261.1	248.9	12.18	21.431	
7,600.0	7,596.4	7,608.3	7,602.4	9.6	10.0	132.39	142.2	146.3	265.1	252.8	12.27	21.600	
7,700.0	7,696.3	7,708.1	7,702.3	9.7	10.1	133.33	142.2	146.3	269.1	256.8	12.37	21.756	
7,800.0	7,796.1	7,807.9	7,802.1	9.8	10.2	134.24	142.2	146.3	273.3	260.8	12.48	21.901	
7,900.0	7,895.9	7,907.7	7,901.9	9.9	10.4	135.13	142.2	146.3	277.5	264.9	12.59	22.034	
8,000.0	7,995.7	8,007.6	8,001.7	10.0	10.5	135.99	142.2	146.3	281.8	269.1	12.72	22.155	
8,100.0	8,095.5	8,107.4	8,101.5	10.1	10.6	136.82	142.2	146.3	286.1	273.3	12.85	22.266	
8,200.0	8,195.4	8,207.2	8,201.4	10.2	10.7	137.63	142.2	146.3	290.5	277.6	12.99	22.368	
8,300.0	8,295.2	8,307.0	8,301.2	10.3	10.9	138.41	142.2	146.3	295.0	281.9	13.14	22.459	
8,400.0	8,395.0	8,406.8	8,401.0	10.4	11.0	139.17	142.2	146.3	299.5	286.2	13.29	22.542	
8,500.0	8,494.8	8,506.7	8,500.8	10.5	11.1	139.91	142.2	146.3	304.1	290.6	13.44	22.617	
8,600.0	8,594.6	8,606.5	8,600.6	10.6	11.2	140.63	142.2	146.3	308.7	295.1	13.61	22.685	
8,700.0	8,694.5	8,706.3	8,700.5	10.8	11.4	141.32	142.2	146.3	313.4	299.6	13.78	22.745	
8,800.0	8,794.3	8,806.1	8,800.3	10.9	11.5	142.00	142.2	146.3	318.1	304.1	13.95	22.800	
8,900.0	8,894.1	8,905.9	8,900.1	11.0	11.6	142.65	142.2	146.3	322.8	308.7	14.13	22.849	
9,000.0	8,993.9	9,005.8	8,999.9	11.1	11.7	143.29	142.2	146.3	327.6	313.3	14.31	22.893	
9,100.0	9,093.7	9,105.6	9,099.7	11.2	11.9	143.90	142.2	146.3	332.4	317.9	14.50	22.932	
9,200.0	9,193.6	9,205.4	9,199.6	11.3	12.0	144.50	142.2	146.3	337.3	322.6	14.69	22.967	
9,300.0	9,293.4	9,305.2	9,299.4	11.4	12.1	145.09	142.2	146.3	342.2	327.3	14.88	22.999	
9,400.0	9,393.2	9,405.0	9,399.2	11.5	12.2	145.65	142.2	146.3	347.1	332.0	15.07	23.028	
9,500.0	9,493.0	9,504.9	9,499.0	11.6	12.4	146.20	142.2	146.3	352.1	336.8	15.27	23.053	
9,600.0	9,592.8	9,604.7	9,598.8	11.7	12.5	146.74	142.2	146.3	357.1	341.6	15.47	23.076	
9,700.0	9,692.7	9,704.5	9,696.7	11.8	12.6	147.26	142.2	146.3	362.1	346.4	15.68	23.097	
9,800.0	9,792.5	9,804.3	9,798.5	11.9	12.8	147.76	142.2	146.3	367.2	351.3	15.88	23.116	
9,900.0	9,892.3	9,904.1	9,898.3	12.1	12.9	148.25	142.2	146.3	372.3	356.2	16.09	23.133	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
10,000.0	9,992.1	10,004.0	9,998.1	12.2	13.0	148.73	142.2	146.3	377.4	361.1	16.30	23.149		
10,100.0	10,091.9	10,104.0	10,098.1	12.3	13.1	149.22	142.1	146.3	382.5	366.0	16.52	23.160		
10,194.3	10,186.1	10,197.3	10,190.6	12.4	13.8	151.35	130.5	146.4	387.4	370.5	16.89	22.939		
10,200.0	10,191.8	10,202.7	10,195.8	12.4	13.8	162.37	129.3	146.4	387.7	370.8	16.91	22.923		
10,225.0	10,216.7	10,226.3	10,218.7	12.4	13.8	-144.28	123.3	146.4	389.2	372.2	17.03	22.852		
10,250.0	10,241.6	10,250.0	10,241.3	12.4	13.8	-117.79	116.1	146.5	390.8	373.6	17.16	22.780		
10,275.0	10,266.4	10,272.7	10,262.6	12.4	13.8	-106.39	108.2	146.5	392.5	375.2	17.28	22.707		
10,300.0	10,291.1	10,295.6	10,283.6	12.4	13.8	-100.13	99.2	146.6	394.2	376.8	17.42	22.633		
10,325.0	10,315.4	10,318.2	10,303.9	12.4	13.8	-96.04	89.4	146.6	396.0	378.4	17.55	22.557		
10,350.0	10,339.5	10,340.6	10,323.6	12.4	13.8	-93.05	78.7	146.7	397.8	380.1	17.70	22.477		
10,375.0	10,363.2	10,362.8	10,342.5	12.4	13.9	-90.70	67.2	146.8	399.7	381.8	17.85	22.393		
10,400.0	10,386.4	10,384.8	10,360.8	12.4	13.9	-88.75	54.9	146.9	401.6	383.6	18.00	22.304		
10,425.0	10,409.1	10,406.6	10,378.3	12.4	13.9	-87.08	41.9	146.9	403.5	385.3	18.17	22.210		
10,450.0	10,431.3	10,428.2	10,395.1	12.4	13.9	-85.62	28.3	147.0	405.4	387.1	18.34	22.108		
10,475.0	10,452.8	10,450.0	10,411.4	12.5	14.0	-84.31	13.8	147.1	407.3	388.8	18.51	22.002		
10,500.0	10,473.6	10,471.0	10,426.4	12.5	14.0	-83.14	-0.9	147.2	409.2	390.5	18.70	21.884		
10,525.0	10,493.7	10,492.1	10,440.9	12.5	14.0	-82.06	-16.3	147.3	411.1	392.2	18.89	21.762		
10,550.0	10,512.9	10,513.2	10,454.6	12.5	14.0	-81.08	-32.3	147.4	412.9	393.8	19.09	21.633		
10,575.0	10,531.3	10,534.1	10,467.5	12.5	14.1	-80.18	-48.7	147.5	414.7	395.4	19.29	21.498		
10,600.0	10,548.8	10,554.9	10,479.6	12.6	14.1	-79.36	-65.6	147.6	416.4	396.9	19.49	21.359		
10,625.0	10,565.4	10,575.0	10,490.6	12.6	14.1	-78.61	-82.5	147.7	418.0	398.3	19.71	21.213		
10,650.0	10,580.9	10,596.2	10,501.4	12.6	14.2	-77.91	-100.7	147.8	419.6	399.7	19.92	21.068		
10,675.0	10,595.4	10,616.7	10,511.1	12.6	14.2	-77.27	-118.7	147.9	421.1	401.0	20.13	20.919		
10,700.0	10,608.9	10,637.1	10,519.9	12.6	14.2	-76.70	-137.1	148.0	422.5	402.1	20.34	20.769		
10,725.0	10,621.2	10,657.4	10,528.0	12.7	14.2	-76.18	-155.8	148.1	423.8	403.2	20.55	20.619		
10,750.0	10,632.3	10,677.7	10,535.2	12.7	14.3	-75.71	-174.7	148.3	425.0	404.2	20.76	20.470		
10,775.0	10,642.3	10,700.0	10,542.2	12.7	14.3	-75.27	-195.9	148.4	426.0	405.1	20.96	20.325		
10,800.0	10,651.0	10,718.1	10,547.1	12.7	14.3	-74.93	-213.3	148.5	427.0	405.8	21.16	20.180		
10,825.0	10,658.5	10,738.2	10,551.9	12.8	14.3	-74.62	-232.9	148.6	427.8	406.5	21.35	20.040		
10,850.0	10,664.8	10,758.3	10,555.8	12.8	14.3	-74.36	-252.5	148.7	428.5	407.0	21.53	19.905		
10,875.0	10,669.8	10,778.3	10,558.8	12.8	14.4	-74.14	-272.4	148.9	429.1	407.4	21.70	19.775		
10,900.0	10,673.5	10,800.0	10,561.2	12.8	14.4	-73.97	-293.9	149.0	429.6	407.7	21.87	19.642		
10,925.0	10,675.9	10,818.3	10,562.4	12.9	14.4	-73.86	-312.2	149.1	429.9	407.8	22.01	19.532		
10,950.0	10,677.0	10,838.3	10,563.0	12.9	14.4	-73.80	-332.2	149.2	430.0	407.9	22.14	19.420		
10,958.5	10,677.0	10,846.0	10,563.0	12.9	14.4	-73.79	-339.9	149.3	430.0	407.9	22.19	19.376		
11,000.0	10,677.0	10,887.5	10,563.0	12.9	14.4	-73.79	-381.4	149.5	430.0	407.6	22.47	19.135		
11,100.0	10,677.0	10,987.5	10,563.0	13.0	14.5	-73.79	-481.4	150.1	430.0	406.8	23.23	18.509		
11,200.0	10,677.0	11,087.5	10,563.0	13.2	14.6	-73.79	-581.4	150.8	430.0	405.9	24.09	17.850		
11,300.0	10,677.0	11,187.5	10,563.0	13.3	14.6	-73.79	-681.4	151.4	430.0	405.0	25.03	17.176		
11,400.0	10,677.0	11,287.5	10,563.0	13.6	14.7	-73.79	-781.4	152.0	430.0	403.9	26.06	16.502		
11,500.0	10,677.0	11,387.5	10,563.0	13.9	14.8	-73.79	-881.4	152.6	430.0	402.8	27.15	15.838		
11,600.0	10,677.0	11,487.5	10,563.0	14.3	14.9	-73.79	-981.4	153.2	430.0	401.7	28.30	15.192		
11,700.0	10,677.0	11,587.5	10,563.0	14.7	15.0	-73.78	-1,081.4	153.8	430.0	400.5	29.51	14.570		
11,800.0	10,677.0	11,687.5	10,563.0	15.2	15.2	-73.78	-1,181.4	154.4	430.0	399.2	30.77	13.975		
11,900.0	10,677.0	11,787.5	10,563.0	15.8	15.5	-73.78	-1,281.4	155.1	430.0	397.9	32.06	13.409		
12,000.0	10,677.0	11,887.5	10,563.0	16.4	15.9	-73.78	-1,381.4	155.7	429.9	396.5	33.40	12.873		
12,100.0	10,677.0	11,987.5	10,563.0	17.1	16.5	-73.78	-1,481.4	156.3	429.9	395.2	34.77	12.366		
12,200.0	10,677.0	12,087.5	10,563.0	17.8	17.2	-73.78	-1,581.4	156.9	429.9	393.8	36.16	11.889		
12,300.0	10,677.0	12,187.5	10,563.0	18.5	17.9	-73.78	-1,681.4	157.5	429.9	392.3	37.59	11.438		
12,400.0	10,677.0	12,287.5	10,563.0	19.2	18.7	-73.78	-1,781.4	158.1	429.9	390.9	39.03	11.014		
12,500.0	10,677.0	12,387.5	10,563.0	20.0	19.4	-73.78	-1,881.4	158.7	429.9	389.4	40.50	10.615		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,600.0	10,677.0	12,487.5	10,563.0	20.7	20.2	-73.78	-1,981.4	159.4	429.9	387.9	41.98	10.239	
12,700.0	10,677.0	12,587.5	10,563.0	21.5	21.0	-73.78	-2,081.4	160.0	429.9	386.4	43.49	9.886	
12,800.0	10,677.0	12,687.5	10,563.0	22.2	21.8	-73.78	-2,181.4	160.6	429.9	384.9	45.00	9.552	
12,900.0	10,677.0	12,787.5	10,563.0	23.0	22.6	-73.78	-2,281.4	161.2	429.9	383.3	46.53	9.238	
13,000.0	10,677.0	12,887.5	10,563.0	23.8	23.4	-73.78	-2,381.4	161.8	429.9	381.8	48.07	8.941	
13,100.0	10,677.0	12,987.5	10,563.0	24.6	24.2	-73.78	-2,481.4	162.4	429.8	380.2	49.63	8.661	
13,200.0	10,677.0	13,087.5	10,563.0	25.4	25.0	-73.78	-2,581.3	163.0	429.8	378.6	51.19	8.397	
13,300.0	10,677.0	13,187.5	10,563.0	26.2	25.8	-73.78	-2,681.3	163.7	429.8	377.1	52.76	8.146	
13,400.0	10,677.0	13,287.5	10,563.0	27.0	26.7	-73.78	-2,781.3	164.3	429.8	375.5	54.35	7.909	
13,500.0	10,677.0	13,387.5	10,563.0	27.8	27.5	-73.78	-2,881.3	164.9	429.8	373.9	55.93	7.684	
13,600.0	10,677.0	13,487.5	10,563.0	28.6	28.3	-73.78	-2,981.3	165.5	429.8	372.3	57.53	7.471	
13,700.0	10,677.0	13,587.5	10,563.0	29.4	29.1	-73.78	-3,081.3	166.1	429.8	370.7	59.13	7.268	
13,800.0	10,677.0	13,687.5	10,563.0	30.2	30.0	-73.78	-3,181.3	166.7	429.8	369.0	60.74	7.076	
13,900.0	10,677.0	13,787.5	10,563.0	31.1	30.8	-73.78	-3,281.3	167.3	429.8	367.4	62.35	6.892	
14,000.0	10,677.0	13,887.5	10,563.0	31.9	31.6	-73.78	-3,381.3	168.0	429.8	365.8	63.97	6.718	
14,100.0	10,677.0	13,987.5	10,563.0	32.7	32.5	-73.78	-3,481.3	168.6	429.7	364.2	65.60	6.551	
14,200.0	10,677.0	14,087.5	10,563.0	33.5	33.3	-73.78	-3,581.3	169.2	429.7	362.5	67.22	6.393	
14,300.0	10,677.0	14,187.5	10,563.0	34.4	34.1	-73.78	-3,681.3	169.8	429.7	360.9	68.86	6.241	
14,400.0	10,677.0	14,287.5	10,563.0	35.2	35.0	-73.78	-3,781.3	170.4	429.7	359.2	70.49	6.096	
14,500.0	10,677.0	14,387.5	10,563.0	36.0	35.8	-73.78	-3,881.3	171.0	429.7	357.6	72.13	5.957	
14,600.0	10,677.0	14,487.5	10,563.0	36.9	36.6	-73.78	-3,981.3	171.6	429.7	355.9	73.77	5.825	
14,700.0	10,677.0	14,587.5	10,563.0	37.7	37.5	-73.78	-4,081.3	172.2	429.7	354.3	75.42	5.697	
14,800.0	10,677.0	14,687.5	10,563.0	38.5	38.3	-73.78	-4,181.3	172.9	429.7	352.6	77.07	5.576	
14,900.0	10,677.0	14,787.5	10,563.0	39.4	39.2	-73.78	-4,281.3	173.5	429.7	351.0	78.72	5.458	
15,000.0	10,677.0	14,887.5	10,563.0	40.2	40.0	-73.78	-4,381.3	174.1	429.7	349.3	80.37	5.346	
15,100.0	10,677.0	14,987.5	10,563.0	41.0	40.9	-73.78	-4,481.3	174.7	429.7	347.6	82.03	5.238	
15,200.0	10,677.0	15,087.5	10,563.0	41.9	41.7	-73.78	-4,581.3	175.3	429.6	346.0	83.69	5.134	
15,300.0	10,677.0	15,187.5	10,563.0	42.7	42.5	-73.78	-4,681.3	175.9	429.6	344.3	85.35	5.034	
15,400.0	10,677.0	15,287.5	10,563.0	43.6	43.4	-73.78	-4,781.3	176.5	429.6	342.6	87.01	4.938	
15,500.0	10,677.0	15,387.5	10,563.0	44.4	44.2	-73.77	-4,881.3	177.2	429.6	340.9	88.67	4.845	
15,600.0	10,677.0	15,487.5	10,563.0	45.2	45.1	-73.77	-4,981.3	177.8	429.6	339.3	90.34	4.756	
15,700.0	10,677.0	15,587.5	10,563.0	46.1	45.9	-73.77	-5,081.3	178.4	429.6	337.6	92.01	4.669	
15,800.0	10,677.0	15,687.5	10,563.0	46.9	46.8	-73.77	-5,181.3	179.0	429.6	335.9	93.67	4.586	
15,900.0	10,677.0	15,787.5	10,563.0	47.8	47.6	-73.77	-5,281.3	179.6	429.6	334.2	95.35	4.506	
16,000.0	10,677.0	15,887.5	10,563.0	48.6	48.5	-73.77	-5,381.3	180.2	429.6	332.6	97.02	4.428	
16,100.0	10,677.0	15,987.5	10,563.0	49.5	49.3	-73.77	-5,481.3	180.8	429.6	330.9	98.69	4.353	
16,200.0	10,677.0	16,087.5	10,563.0	50.3	50.2	-73.77	-5,581.3	181.5	429.6	329.2	100.37	4.280	
16,300.0	10,677.0	16,187.5	10,563.0	51.2	51.0	-73.77	-5,681.3	182.1	429.5	327.5	102.04	4.209	
16,400.0	10,677.0	16,287.5	10,563.0	52.0	51.9	-73.77	-5,781.3	182.7	429.5	325.8	103.72	4.141	
16,500.0	10,677.0	16,387.5	10,563.0	52.9	52.7	-73.77	-5,881.3	183.3	429.5	324.1	105.40	4.075	
16,600.0	10,677.0	16,487.5	10,563.0	53.7	53.6	-73.77	-5,981.3	183.9	429.5	322.4	107.08	4.011	
16,700.0	10,677.0	16,587.5	10,563.0	54.6	54.4	-73.77	-6,081.3	184.5	429.5	320.7	108.76	3.949	
16,800.0	10,677.0	16,687.5	10,563.0	55.4	55.3	-73.77	-6,181.3	185.1	429.5	319.1	110.44	3.889	
16,900.0	10,677.0	16,787.5	10,563.0	56.3	56.1	-73.77	-6,281.3	185.8	429.5	317.4	112.12	3.831	
17,000.0	10,677.0	16,887.5	10,563.0	57.1	57.0	-73.77	-6,381.3	186.4	429.5	315.7	113.80	3.774	
17,100.0	10,677.0	16,987.5	10,563.0	58.0	57.9	-73.77	-6,481.3	187.0	429.5	314.0	115.49	3.719	
17,200.0	10,677.0	17,087.5	10,563.0	58.8	58.7	-73.77	-6,581.3	187.6	429.5	312.3	117.17	3.665	
17,300.0	10,677.0	17,187.5	10,563.0	59.7	59.6	-73.77	-6,681.3	188.2	429.4	310.6	118.86	3.613	
17,400.0	10,677.0	17,287.5	10,563.0	60.5	60.4	-73.77	-6,781.3	188.8	429.4	308.9	120.54	3.563	
17,500.0	10,677.0	17,387.5	10,563.0	61.4	61.3	-73.77	-6,881.3	189.4	429.4	307.2	122.23	3.513	
17,600.0	10,677.0	17,487.5	10,563.0	62.2	62.1	-73.77	-6,981.3	190.1	429.4	305.5	123.92	3.465	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #706H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10164-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)						
17,700.0	10,677.0	17,587.5	10,563.0	63.1	63.0	-73.77	-7,081.3	190.7	429.4	303.8	125.61	3.419		
17,800.0	10,677.0	17,687.5	10,563.0	63.9	63.8	-73.77	-7,181.3	191.3	429.4	302.1	127.29	3.373		
17,900.0	10,677.0	17,787.5	10,563.0	64.8	64.7	-73.77	-7,281.3	191.9	429.4	300.4	128.98	3.329		
18,000.0	10,677.0	17,887.5	10,563.0	65.6	65.5	-73.77	-7,381.3	192.5	429.4	298.7	130.67	3.286		
18,100.0	10,677.0	17,987.5	10,563.0	66.5	66.4	-73.77	-7,481.3	193.1	429.4	297.0	132.36	3.244		
18,200.0	10,677.0	18,087.5	10,563.0	67.3	67.3	-73.77	-7,581.3	193.7	429.4	295.3	134.06	3.203		
18,300.0	10,677.0	18,187.5	10,563.0	68.2	68.1	-73.77	-7,681.3	194.3	429.4	293.6	135.75	3.163		
18,400.0	10,677.0	18,287.5	10,563.0	69.0	69.0	-73.77	-7,781.3	195.0	429.3	291.9	137.44	3.124		
18,500.0	10,677.0	18,387.5	10,563.0	69.9	69.8	-73.77	-7,881.2	195.6	429.3	290.2	139.13	3.086		
18,600.0	10,677.0	18,487.5	10,563.0	70.7	70.7	-73.77	-7,981.2	196.2	429.3	288.5	140.82	3.049		
18,700.0	10,677.0	18,587.5	10,563.0	71.6	71.5	-73.77	-8,081.2	196.8	429.3	286.8	142.52	3.012		
18,800.0	10,677.0	18,687.5	10,563.0	72.4	72.4	-73.77	-8,181.2	197.4	429.3	285.1	144.21	2.977		
18,900.0	10,677.0	18,787.5	10,563.0	73.3	73.2	-73.77	-8,281.2	198.0	429.3	283.4	145.91	2.942		
19,000.0	10,677.0	18,887.5	10,563.0	74.1	74.1	-73.77	-8,381.2	198.6	429.3	281.7	147.60	2.908		
19,100.0	10,677.0	18,987.5	10,563.0	75.0	75.0	-73.77	-8,481.2	199.3	429.3	280.0	149.30	2.875		
19,200.0	10,677.0	19,087.5	10,563.0	75.9	75.8	-73.77	-8,581.2	199.9	429.3	278.3	150.99	2.843		
19,300.0	10,677.0	19,187.5	10,563.0	76.7	76.7	-73.77	-8,681.2	200.5	429.3	276.6	152.69	2.811		
19,400.0	10,677.0	19,287.5	10,563.0	77.6	77.5	-73.76	-8,781.2	201.1	429.3	274.9	154.38	2.780		
19,500.0	10,677.0	19,387.5	10,563.0	78.4	78.4	-73.76	-8,881.2	201.7	429.2	273.2	156.08	2.750		
19,600.0	10,677.0	19,487.5	10,563.0	79.3	79.2	-73.76	-8,981.2	202.3	429.2	271.5	157.78	2.721		
19,700.0	10,677.0	19,587.5	10,563.0	80.1	80.1	-73.76	-9,081.2	202.9	429.2	269.8	159.47	2.692		
19,800.0	10,677.0	19,687.5	10,563.0	81.0	81.0	-73.76	-9,181.2	203.6	429.2	268.0	161.17	2.663		
19,900.0	10,677.0	19,787.5	10,563.0	81.8	81.8	-73.76	-9,281.2	204.2	429.2	266.3	162.87	2.635		
20,000.0	10,677.0	19,887.5	10,563.0	82.7	82.7	-73.76	-9,381.2	204.8	429.2	264.6	164.57	2.608		
20,100.0	10,677.0	19,987.5	10,563.0	83.6	83.5	-73.76	-9,481.2	205.4	429.2	262.9	166.26	2.581		
20,200.0	10,677.0	20,087.5	10,563.0	84.4	84.4	-73.76	-9,581.2	206.0	429.2	261.2	167.96	2.555		
20,300.0	10,677.0	20,187.5	10,563.0	85.3	85.2	-73.76	-9,681.2	206.6	429.2	259.5	169.66	2.530		
20,400.0	10,677.0	20,287.5	10,563.0	86.1	86.1	-73.76	-9,781.2	207.2	429.2	257.8	171.36	2.504		
20,500.0	10,677.0	20,387.5	10,563.0	87.0	87.0	-73.76	-9,881.2	207.9	429.1	256.1	173.06	2.480		
20,600.0	10,677.0	20,487.5	10,563.0	87.8	87.8	-73.76	-9,981.2	208.5	429.1	254.4	174.76	2.456		
20,700.0	10,677.0	20,587.5	10,563.0	88.7	88.7	-73.76	-10,081.2	209.1	429.1	252.7	176.46	2.432		
20,800.0	10,677.0	20,687.5	10,563.0	89.5	89.5	-73.76	-10,181.2	209.7	429.1	251.0	178.16	2.409		
20,828.5	10,677.0	20,716.0	10,563.0	89.8	89.8	-73.76	-10,209.7	209.9	429.1	250.5	178.64	2.402		
20,828.6	10,677.0	20,716.1	10,563.0	89.8	89.8	-73.76	-10,209.8	209.9	429.1	250.5	178.64	2.402		
20,829.4	10,677.0	20,716.1	10,563.0	89.8	89.8	-73.76	-10,209.8	209.9	429.1	250.5	178.65	2.402 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-90.52	-0.3	-30.0	30.0					
100.0	100.0	99.0	99.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	4.993		
200.0	200.0	199.0	199.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.00	4.991		
300.0	300.0	299.0	299.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	24.0	6.01	4.986		
400.0	400.0	399.0	399.0	3.0	3.0	-90.52	-0.3	-30.0	30.0	23.9	6.02	4.978		
500.0	500.0	499.0	499.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.03	4.968		
600.0	600.0	599.0	599.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.05	4.955		
700.0	700.0	699.0	699.0	3.1	3.1	-90.52	-0.3	-30.0	30.0	23.9	6.07	4.940		
800.0	800.0	799.0	799.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.9	6.09	4.922		
900.0	900.0	899.0	899.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.8	6.11	4.901		
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-90.52	-0.3	-30.0	30.0	23.8	6.14	4.879		
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-90.52	-0.3	-30.0	30.0	23.8	6.17	4.854		
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-90.52	-0.3	-30.0	30.0	23.8	6.21	4.827		
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.52	-0.3	-30.0	30.0	23.7	6.24	4.799		
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.52	-0.3	-30.0	30.0	23.7	6.28	4.768		
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-90.52	-0.3	-30.0	30.0	23.6	6.33	4.736		
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-90.52	-0.3	-30.0	30.0	23.6	6.37	4.702		
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-90.52	-0.3	-30.0	30.0	23.5	6.42	4.666		
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-90.52	-0.3	-30.0	30.0	23.5	6.47	4.630		
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-90.52	-0.3	-30.0	30.0	23.4	6.53	4.592		
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-90.52	-0.3	-30.0	30.0	23.4	6.58	4.552		
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-90.52	-0.3	-30.0	30.0	23.3	6.64	4.512		
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-90.52	-0.3	-30.0	30.0	23.3	6.70	4.471		
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-90.52	-0.3	-30.0	30.0	23.2	6.76	4.429		
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-90.52	-0.3	-30.0	30.0	23.1	6.83	4.387		
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-90.52	-0.3	-30.0	30.0	23.1	6.90	4.344 CC, ES		
2,600.0	2,600.0	2,598.0	2,597.9	4.5	4.5	-89.85	0.1	-31.6	31.6	24.6	6.97	4.538		
2,700.0	2,700.0	2,696.7	2,696.5	4.6	4.5	-88.20	1.2	-36.6	36.7	29.6	7.05	5.203		
2,800.0	2,800.0	2,794.9	2,794.4	4.7	4.6	-86.26	2.9	-44.8	45.1	38.0	7.14	6.319		
2,900.0	2,900.0	2,893.3	2,892.1	4.8	4.6	-84.55	5.3	-56.0	56.7	49.4	7.25	7.819		
3,000.0	3,000.0	2,992.6	2,990.7	4.9	4.7	-83.37	7.9	-67.8	68.8	61.4	7.36	9.341		
3,100.0	3,100.0	3,091.8	3,089.2	5.0	4.7	-82.53	10.4	-79.6	80.9	73.4	7.48	10.814		
3,200.0	3,200.0	3,191.1	3,187.7	5.1	4.8	-81.92	13.0	-91.5	93.1	85.5	7.61	12.238		
3,300.0	3,300.0	3,290.4	3,286.2	5.2	4.8	-81.45	15.5	-103.3	105.2	97.5	7.73	13.612		
3,400.0	3,400.0	3,389.6	3,384.7	5.3	4.9	-81.07	18.1	-115.1	117.4	109.5	7.86	14.938		
3,500.0	3,500.0	3,488.9	3,483.2	5.4	5.0	-80.77	20.6	-126.9	129.6	121.6	7.99	16.216		
3,600.0	3,600.0	3,588.1	3,581.7	5.5	5.0	-80.52	23.2	-138.8	141.7	133.6	8.12	17.447		
3,700.0	3,700.0	3,687.4	3,680.3	5.7	5.1	-80.31	25.7	-150.6	153.9	145.7	8.26	18.632		
3,800.0	3,800.0	3,786.6	3,778.8	5.8	5.2	-80.13	28.3	-162.4	166.1	157.7	8.40	19.773		
3,900.0	3,900.0	3,885.9	3,877.3	5.9	5.3	-79.97	30.8	-174.2	178.3	169.7	8.54	20.870		
4,000.0	4,000.0	3,985.1	3,975.8	6.0	5.4	-79.83	33.4	-186.1	190.5	181.8	8.69	21.926		
4,100.0	4,100.0	4,084.4	4,074.3	6.1	5.4	-79.71	35.9	-197.9	202.6	193.8	8.83	22.941		
4,200.0	4,200.0	4,183.6	4,172.8	6.2	5.5	-79.61	38.5	-209.7	214.8	205.8	8.98	23.917		
4,300.0	4,300.0	4,282.9	4,271.3	6.3	5.6	-79.51	41.0	-221.5	227.0	217.9	9.13	24.856		
4,400.0	4,400.0	4,382.2	4,369.9	6.5	5.7	-79.43	43.6	-233.4	239.2	229.9	9.29	25.759		
4,500.0	4,500.0	4,481.4	4,468.4	6.6	5.8	-79.35	46.1	-245.2	251.4	241.9	9.44	26.627		
4,600.0	4,600.0	4,580.7	4,566.9	6.7	5.9	-79.28	48.7	-257.0	263.5	253.9	9.60	27.461		
4,700.0	4,700.0	4,679.9	4,665.4	6.8	6.0	-79.22	51.2	-268.8	275.7	266.0	9.76	28.264		
4,800.0	4,800.0	4,779.2	4,763.9	6.9	6.1	-79.16	53.8	-280.7	287.9	278.0	9.92	29.037		
4,900.0	4,900.0	4,878.4	4,862.4	7.0	6.2	-79.10	56.3	-292.5	300.1	290.0	10.08	29.780		
5,000.0	5,000.0	4,977.7	4,961.0	7.2	6.3	-79.06	58.8	-304.3	312.3	302.0	10.24	30.495		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	5,076.9	5,059.5	7.3	6.4	-79.01		61.4	-316.1	324.5	314.1	10.41	31.183	
5,200.0	5,200.0	5,176.2	5,158.0	7.4	6.5	-78.97		63.9	-328.0	336.6	326.1	10.57	31.846	
5,300.0	5,300.0	5,275.4	5,256.5	7.5	6.6	-78.93		66.5	-339.8	348.8	338.1	10.74	32.484	
5,400.0	5,400.0	5,374.7	5,355.0	7.6	6.7	-78.89		69.0	-351.6	361.0	350.1	10.91	33.098	
5,500.0	5,500.0	5,474.0	5,453.5	7.8	6.8	-78.86		71.6	-363.4	373.2	362.1	11.08	33.691	
5,600.0	5,600.0	5,573.4	5,552.2	7.9	6.9	-18.10		74.1	-375.3	383.7	372.5	11.25	34.099	
5,671.8	5,671.7	5,645.0	5,623.3	7.9	7.0	-18.19		76.0	-383.8	389.3	377.9	11.38	34.199	
5,700.0	5,699.8	5,673.1	5,651.2	7.9	7.0	-18.26		76.7	-387.2	391.1	379.7	11.43	34.211	
5,800.0	5,799.7	5,772.9	5,750.2	8.0	7.1	-18.50		79.3	-399.1	397.6	386.0	11.61	34.248	
5,900.0	5,899.5	5,872.7	5,849.3	8.1	7.2	-18.72		81.8	-410.9	404.1	392.4	11.79	34.279	
6,000.0	5,999.3	5,972.4	5,948.3	8.2	7.3	-18.94		84.4	-422.8	410.7	398.7	11.97	34.304	
6,100.0	6,099.1	6,072.2	6,047.3	8.3	7.4	-19.15		86.9	-434.7	417.2	405.1	12.16	34.323	
6,200.0	6,198.9	6,172.0	6,146.3	8.4	7.5	-19.36		89.5	-446.6	423.8	411.4	12.34	34.337	
6,300.0	6,298.8	6,271.8	6,245.4	8.4	7.6	-19.56		92.1	-458.5	430.3	417.8	12.53	34.347	
6,400.0	6,398.6	6,371.5	6,344.4	8.5	7.8	-19.75		94.6	-470.4	436.9	424.1	12.72	34.352	
6,500.0	6,498.4	6,471.3	6,443.4	8.6	7.9	-19.94		97.2	-482.3	443.4	430.5	12.91	34.353	
6,600.0	6,598.2	6,571.1	6,542.5	8.7	8.0	-20.12		99.8	-494.1	450.0	436.9	13.10	34.351	
6,700.0	6,698.0	6,670.9	6,641.5	8.8	8.1	-20.30		102.3	-506.0	456.5	443.3	13.29	34.345	
6,800.0	6,797.9	6,770.6	6,740.5	8.9	8.2	-20.47		104.9	-517.9	463.1	449.6	13.49	34.335	
6,900.0	6,897.7	6,870.4	6,839.6	9.0	8.3	-20.64		107.4	-529.8	469.7	456.0	13.68	34.323	
7,000.0	6,997.5	6,970.2	6,938.6	9.1	8.5	-20.80		110.0	-541.7	476.3	462.4	13.88	34.308	
7,100.0	7,097.3	7,069.9	7,037.6	9.2	8.6	-20.96		112.6	-553.6	482.9	468.8	14.08	34.290	
7,200.0	7,197.1	7,169.7	7,136.7	9.2	8.7	-21.11		115.1	-565.5	489.4	475.2	14.28	34.271	
7,300.0	7,297.0	7,269.5	7,235.7	9.3	8.8	-21.26		117.7	-577.4	496.0	481.5	14.48	34.248	
7,400.0	7,396.8	7,369.3	7,334.7	9.4	8.9	-21.41		120.2	-589.2	502.6	487.9	14.69	34.224	
7,500.0	7,496.6	7,469.0	7,433.7	9.5	9.0	-21.55		122.8	-601.1	509.2	494.3	14.89	34.199	
7,600.0	7,596.4	7,568.8	7,532.8	9.6	9.2	-21.69		125.4	-613.0	515.8	500.7	15.10	34.171	
7,700.0	7,696.3	7,668.6	7,631.8	9.7	9.3	-21.82		127.9	-624.9	522.4	507.1	15.30	34.142	
7,800.0	7,796.1	7,768.4	7,730.8	9.8	9.4	-21.95		130.5	-636.8	529.0	513.5	15.51	34.112	
7,900.0	7,895.9	7,868.1	7,829.9	9.9	9.5	-22.08		133.1	-648.7	535.6	519.9	15.72	34.080	
8,000.0	7,995.7	7,971.4	7,932.3	10.0	9.7	-22.21		135.7	-660.9	542.2	526.3	15.92	34.059	
8,100.0	8,095.5	8,094.6	8,055.0	10.1	9.8	-22.40		138.1	-672.2	546.0	529.9	16.11	33.900	
8,200.0	8,195.4	8,218.0	8,178.2	10.2	9.9	-22.63		139.5	-678.4	545.6	529.3	16.34	33.996	
8,300.0	8,295.2	8,333.9	8,294.2	10.3	10.1	-22.90		139.7	-679.7	541.1	524.5	16.54	32.709	
8,400.0	8,395.0	8,433.8	8,394.0	10.4	10.1	-23.15		139.7	-679.7	535.6	518.9	16.67	32.122	
8,500.0	8,494.8	8,533.6	8,493.8	10.5	10.2	-23.41		139.7	-679.7	530.1	513.3	16.80	31.546	
8,600.0	8,594.6	8,633.4	8,593.6	10.6	10.3	-23.67		139.7	-679.7	524.6	507.6	16.93	30.980	
8,700.0	8,694.5	8,733.2	8,693.5	10.8	10.4	-23.93		139.7	-679.7	519.1	502.0	17.06	30.426	
8,800.0	8,794.3	8,833.0	8,793.3	10.9	10.5	-24.20		139.7	-679.7	513.6	496.4	17.19	29.881	
8,900.0	8,894.1	8,932.9	8,893.1	11.0	10.6	-24.48		139.7	-679.7	508.1	490.8	17.31	29.347	
9,000.0	8,993.9	9,032.7	8,992.9	11.1	10.7	-24.76		139.7	-679.7	502.7	485.2	17.44	28.823	
9,100.0	9,093.7	9,132.5	9,092.7	11.2	10.8	-25.05		139.7	-679.7	497.3	479.7	17.56	28.309	
9,200.0	9,193.6	9,232.3	9,192.6	11.3	10.9	-25.35		139.7	-679.7	491.8	474.1	17.69	27.805	
9,300.0	9,293.4	9,332.2	9,292.4	11.4	11.0	-25.65		139.7	-679.7	486.4	468.6	17.81	27.310	
9,400.0	9,393.2	9,432.0	9,392.2	11.5	11.1	-25.96		139.7	-679.7	481.0	463.1	17.93	26.824	
9,500.0	9,493.0	9,531.8	9,492.0	11.6	11.2	-26.28		139.7	-679.7	475.6	457.6	18.05	26.348	
9,600.0	9,592.8	9,631.6	9,591.8	11.7	11.4	-26.60		139.7	-679.7	470.3	452.1	18.17	25.880	
9,700.0	9,692.7	9,731.4	9,691.7	11.8	11.5	-26.93		139.7	-679.7	464.9	446.6	18.29	25.422	
9,800.0	9,792.5	9,831.3	9,791.5	11.9	11.6	-27.27		139.7	-679.7	459.6	441.2	18.40	24.972	
9,900.0	9,892.3	9,931.1	9,891.3	12.1	11.7	-27.61		139.7	-679.7	454.2	435.7	18.52	24.530	
10,000.0	9,992.1	10,030.9	9,991.1	12.2	11.8	-27.97		139.7	-679.7	448.9	430.3	18.63	24.104	

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	10,091.9	10,131.3	10,091.5	12.3	11.8	-28.44	138.9	-679.7	443.6	424.9	18.70	23.724		
10,194.3	10,186.1	10,224.2	10,183.1	12.4	11.8	-30.66	124.5	-679.6	438.7	420.2	18.54	23.667		
10,200.0	10,191.8	10,229.5	10,188.3	12.4	11.8	-20.04	123.1	-679.6	438.4	419.9	18.51	23.682		
10,225.0	10,216.7	10,252.9	10,210.6	12.4	11.8	31.55	116.5	-679.5	437.3	418.9	18.42	23.747		
10,250.0	10,241.6	10,275.9	10,232.4	12.4	11.8	56.30	108.9	-679.5	436.3	418.0	18.33	23.804		
10,275.0	10,266.4	10,298.7	10,253.5	12.4	11.9	66.00	100.3	-679.4	435.5	417.2	18.26	23.851		
10,300.0	10,291.1	10,321.2	10,273.9	12.4	11.9	70.58	90.9	-679.4	434.7	416.5	18.20	23.883		
10,325.0	10,315.4	10,343.5	10,293.7	12.4	11.9	73.02	80.6	-679.3	434.0	415.8	18.16	23.895		
10,350.0	10,339.5	10,365.5	10,312.7	12.4	11.9	74.40	69.5	-679.2	433.4	415.3	18.15	23.885		
10,375.0	10,363.2	10,387.3	10,331.1	12.4	11.9	75.19	57.7	-679.1	432.9	414.8	18.15	23.849		
10,400.0	10,386.4	10,408.9	10,348.7	12.4	11.9	75.61	45.2	-679.1	432.6	414.4	18.19	23.783		
10,425.0	10,409.1	10,430.3	10,365.5	12.4	12.0	75.79	32.1	-679.0	432.2	414.0	18.25	23.688		
10,450.0	10,431.3	10,450.0	10,380.5	12.4	12.0	75.86	19.3	-678.9	432.0	413.7	18.37	23.523		
10,475.0	10,452.8	10,472.6	10,397.0	12.5	12.0	75.74	3.9	-678.8	431.9	413.4	18.45	23.403		
10,500.0	10,473.6	10,493.4	10,411.7	12.5	12.0	75.59	-11.0	-678.7	431.8	413.2	18.60	23.216		
10,525.0	10,493.7	10,514.2	10,425.5	12.5	12.0	75.38	-26.4	-678.6	431.7	413.0	18.77	23.001		
10,526.9	10,495.2	10,515.8	10,426.6	12.5	12.1	75.37	-27.6	-678.6	431.7	412.9	18.78	22.983		
10,550.0	10,512.9	10,534.8	10,438.6	12.5	12.1	75.14	-42.3	-678.5	431.8	412.8	18.97	22.763		
10,575.0	10,531.3	10,555.2	10,450.9	12.5	12.1	74.88	-58.7	-678.4	431.8	412.6	19.19	22.505		
10,600.0	10,548.8	10,575.0	10,462.1	12.6	12.1	74.62	-74.9	-678.3	431.9	412.5	19.44	22.214		
10,625.0	10,565.4	10,595.8	10,473.2	12.6	12.1	74.33	-92.6	-678.2	432.1	412.4	19.69	21.943		
10,650.0	10,580.9	10,615.9	10,483.2	12.6	12.2	74.05	-110.1	-678.1	432.2	412.3	19.97	21.649		
10,675.0	10,595.4	10,636.0	10,492.4	12.6	12.2	73.78	-127.9	-678.0	432.4	412.2	20.25	21.351		
10,700.0	10,608.9	10,655.9	10,500.8	12.6	12.2	73.52	-146.0	-677.9	432.6	412.1	20.55	21.052		
10,725.0	10,621.2	10,675.0	10,508.1	12.7	12.2	73.28	-163.6	-677.7	432.8	412.0	20.87	20.739		
10,750.0	10,632.3	10,695.6	10,515.2	12.7	12.3	73.03	-182.9	-677.6	433.1	411.9	21.16	20.468		
10,775.0	10,642.3	10,715.4	10,521.2	12.7	12.3	72.82	-201.7	-677.5	433.3	411.8	21.46	20.187		
10,800.0	10,651.0	10,735.0	10,526.4	12.7	12.3	72.62	-220.7	-677.4	433.5	411.7	21.77	19.917		
10,825.0	10,658.5	10,754.7	10,530.8	12.8	12.3	72.44	-239.8	-677.3	433.7	411.6	22.06	19.659		
10,850.0	10,664.8	10,775.0	10,534.6	12.8	12.4	72.28	-259.8	-677.1	433.9	411.6	22.34	19.425		
10,875.0	10,669.8	10,793.8	10,537.3	12.8	12.4	72.15	-278.4	-677.0	434.1	411.4	22.63	19.183		
10,900.0	10,673.5	10,813.4	10,539.3	12.8	12.4	72.04	-297.8	-676.9	434.2	411.3	22.89	18.967		
10,925.0	10,675.9	10,832.9	10,540.5	12.9	12.4	71.96	-317.3	-676.8	434.3	411.2	23.15	18.766		
10,950.0	10,677.0	10,852.4	10,541.0	12.9	12.5	71.90	-336.8	-676.6	434.5	411.1	23.38	18.581		
10,958.5	10,677.0	10,860.6	10,541.0	12.9	12.5	71.89	-345.0	-676.6	434.5	411.0	23.44	18.535		
11,000.0	10,677.0	10,902.1	10,541.0	12.9	12.5	71.89	-386.5	-676.3	434.5	410.8	23.71	18.328		
11,100.0	10,677.0	11,002.1	10,541.0	13.0	12.7	71.89	-486.5	-675.7	434.5	410.0	24.43	17.784		
11,200.0	10,677.0	11,102.1	10,541.0	13.2	12.9	71.89	-586.5	-675.1	434.5	409.2	25.25	17.207		
11,300.0	10,677.0	11,202.1	10,541.0	13.3	13.2	71.89	-686.5	-674.4	434.4	408.3	26.15	16.611		
11,400.0	10,677.0	11,302.1	10,541.0	13.6	13.6	71.89	-786.5	-673.8	434.4	407.3	27.14	16.009		
11,500.0	10,677.0	11,402.1	10,541.0	13.9	14.0	71.89	-886.5	-673.2	434.4	406.2	28.19	15.412		
11,600.0	10,677.0	11,502.1	10,541.0	14.3	14.5	71.89	-986.5	-672.5	434.4	405.1	29.30	14.826		
11,700.0	10,677.0	11,602.1	10,541.0	14.7	15.0	71.88	-1,086.5	-671.9	434.4	403.9	30.47	14.257		
11,800.0	10,677.0	11,702.1	10,541.0	15.2	15.6	71.88	-1,186.5	-671.3	434.4	402.7	31.69	13.709		
11,900.0	10,677.0	11,802.1	10,541.0	15.8	16.2	71.88	-1,286.5	-670.6	434.4	401.4	32.95	13.184		
12,000.0	10,677.0	11,902.1	10,541.0	16.4	16.9	71.88	-1,386.5	-670.0	434.4	400.1	34.25	12.684		
12,100.0	10,677.0	12,002.1	10,541.0	17.1	17.5	71.88	-1,486.5	-669.4	434.4	398.8	35.58	12.208		
12,200.0	10,677.0	12,102.1	10,541.0	17.8	18.2	71.88	-1,586.5	-668.7	434.4	397.4	36.94	11.757		
12,300.0	10,677.0	12,202.1	10,541.0	18.5	18.9	71.88	-1,686.5	-668.1	434.3	396.0	38.34	11.330		
12,400.0	10,677.0	12,302.1	10,541.0	19.2	19.7	71.88	-1,786.5	-667.5	434.3	394.6	39.75	10.926		
12,500.0	10,677.0	12,402.1	10,541.0	20.0	20.4	71.88	-1,886.5	-666.8	434.3	393.1	41.19	10.545		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
12,600.0	10,677.0	12,502.1	10,541.0	20.7	21.1	71.88	-1,986.5	-666.2	434.3	391.7	42.65	10.184	
12,700.0	10,677.0	12,602.1	10,541.0	21.5	21.9	71.88	-2,086.5	-665.6	434.3	390.2	44.12	9.843	
12,800.0	10,677.0	12,702.1	10,541.0	22.2	22.7	71.88	-2,186.5	-664.9	434.3	388.7	45.62	9.521	
12,900.0	10,677.0	12,802.1	10,541.0	23.0	23.4	71.88	-2,286.5	-664.3	434.3	387.2	47.12	9.216	
13,000.0	10,677.0	12,902.1	10,541.0	23.8	24.2	71.88	-2,386.5	-663.7	434.3	385.6	48.64	8.928	
13,100.0	10,677.0	13,002.1	10,541.0	24.6	25.0	71.88	-2,486.5	-663.0	434.3	384.1	50.17	8.656	
13,200.0	10,677.0	13,102.1	10,541.0	25.4	25.8	71.88	-2,586.5	-662.4	434.3	382.6	51.72	8.397	
13,300.0	10,677.0	13,202.1	10,541.0	26.2	26.6	71.88	-2,686.5	-661.8	434.3	381.0	53.27	8.152	
13,400.0	10,677.0	13,302.1	10,541.0	27.0	27.4	71.88	-2,786.5	-661.1	434.2	379.4	54.83	7.920	
13,500.0	10,677.0	13,402.1	10,541.0	27.8	28.2	71.88	-2,886.5	-660.5	434.2	377.8	56.40	7.699	
13,600.0	10,677.0	13,502.1	10,541.0	28.6	29.0	71.88	-2,986.5	-659.9	434.2	376.3	57.98	7.490	
13,700.0	10,677.0	13,602.1	10,541.0	29.4	29.8	71.88	-3,086.5	-659.2	434.2	374.7	59.56	7.290	
13,800.0	10,677.0	13,702.1	10,541.0	30.2	30.6	71.88	-3,186.5	-658.6	434.2	373.1	61.15	7.100	
13,900.0	10,677.0	13,802.1	10,541.0	31.1	31.4	71.88	-3,286.5	-658.0	434.2	371.4	62.75	6.919	
14,000.0	10,677.0	13,902.1	10,541.0	31.9	32.2	71.88	-3,386.5	-657.3	434.2	369.8	64.36	6.747	
14,100.0	10,677.0	14,002.1	10,541.0	32.7	33.0	71.88	-3,486.5	-656.7	434.2	368.2	65.96	6.582	
14,200.0	10,677.0	14,102.1	10,541.0	33.5	33.9	71.88	-3,586.5	-656.1	434.2	366.6	67.58	6.425	
14,300.0	10,677.0	14,202.1	10,541.0	34.4	34.7	71.88	-3,686.5	-655.4	434.2	365.0	69.19	6.274	
14,400.0	10,677.0	14,302.1	10,541.0	35.2	35.5	71.88	-3,786.5	-654.8	434.2	363.3	70.82	6.131	
14,500.0	10,677.0	14,402.1	10,541.0	36.0	36.3	71.88	-3,886.5	-654.2	434.1	361.7	72.44	5.993	
14,600.0	10,677.0	14,502.1	10,541.0	36.9	37.2	71.88	-3,986.5	-653.5	434.1	360.1	74.07	5.861	
14,700.0	10,677.0	14,602.1	10,541.0	37.7	38.0	71.88	-4,086.5	-652.9	434.1	358.4	75.70	5.734	
14,800.0	10,677.0	14,702.1	10,541.0	38.5	38.8	71.88	-4,186.5	-652.3	434.1	356.8	77.34	5.613	
14,900.0	10,677.0	14,802.1	10,541.0	39.4	39.7	71.88	-4,286.5	-651.6	434.1	355.1	78.98	5.496	
15,000.0	10,677.0	14,902.1	10,541.0	40.2	40.5	71.88	-4,386.5	-651.0	434.1	353.5	80.62	5.384	
15,100.0	10,677.0	15,002.1	10,541.0	41.0	41.3	71.87	-4,486.5	-650.4	434.1	351.8	82.27	5.277	
15,200.0	10,677.0	15,102.1	10,541.0	41.9	42.2	71.87	-4,586.5	-649.7	434.1	350.2	83.91	5.173	
15,300.0	10,677.0	15,202.1	10,541.0	42.7	43.0	71.87	-4,686.5	-649.1	434.1	348.5	85.56	5.073	
15,400.0	10,677.0	15,302.1	10,541.0	43.6	43.9	71.87	-4,786.5	-648.5	434.1	346.8	87.21	4.977	
15,500.0	10,677.0	15,402.1	10,541.0	44.4	44.7	71.87	-4,886.5	-647.8	434.1	345.2	88.87	4.884	
15,600.0	10,677.0	15,502.1	10,541.0	45.2	45.5	71.87	-4,986.4	-647.2	434.0	343.5	90.52	4.795	
15,700.0	10,677.0	15,602.1	10,541.0	46.1	46.4	71.87	-5,086.4	-646.6	434.0	341.9	92.18	4.708	
15,800.0	10,677.0	15,702.1	10,541.0	46.9	47.2	71.87	-5,186.4	-645.9	434.0	340.2	93.84	4.625	
15,900.0	10,677.0	15,802.1	10,541.0	47.8	48.1	71.87	-5,286.4	-645.3	434.0	338.5	95.50	4.545	
16,000.0	10,677.0	15,902.1	10,541.0	48.6	48.9	71.87	-5,386.4	-644.7	434.0	336.8	97.16	4.467	
16,100.0	10,677.0	16,002.1	10,541.0	49.5	49.7	71.87	-5,486.4	-644.0	434.0	335.2	98.83	4.391	
16,200.0	10,677.0	16,102.1	10,541.0	50.3	50.6	71.87	-5,586.4	-643.4	434.0	333.5	100.49	4.319	
16,300.0	10,677.0	16,202.1	10,541.0	51.2	51.4	71.87	-5,686.4	-642.8	434.0	331.8	102.16	4.248	
16,400.0	10,677.0	16,302.1	10,541.0	52.0	52.3	71.87	-5,786.4	-642.1	434.0	330.1	103.83	4.180	
16,500.0	10,677.0	16,402.1	10,541.0	52.9	53.1	71.87	-5,886.4	-641.5	434.0	328.5	105.50	4.113	
16,600.0	10,677.0	16,502.1	10,541.0	53.7	54.0	71.87	-5,986.4	-640.9	433.9	326.8	107.17	4.049	
16,700.0	10,677.0	16,602.1	10,541.0	54.6	54.8	71.87	-6,086.4	-640.2	433.9	325.1	108.84	3.987	
16,800.0	10,677.0	16,702.1	10,541.0	55.4	55.7	71.87	-6,186.4	-639.6	433.9	323.4	110.51	3.927	
16,900.0	10,677.0	16,802.1	10,541.0	56.3	56.5	71.87	-6,286.4	-639.0	433.9	321.7	112.19	3.868	
17,000.0	10,677.0	16,902.1	10,541.0	57.1	57.4	71.87	-6,386.4	-638.3	433.9	320.0	113.86	3.811	
17,100.0	10,677.0	17,002.1	10,541.0	58.0	58.2	71.87	-6,486.4	-637.7	433.9	318.4	115.54	3.756	
17,200.0	10,677.0	17,102.1	10,541.0	58.8	59.1	71.87	-6,586.4	-637.1	433.9	316.7	117.21	3.702	
17,300.0	10,677.0	17,202.1	10,541.0	59.7	59.9	71.87	-6,686.4	-636.4	433.9	315.0	118.89	3.649	
17,400.0	10,677.0	17,302.1	10,541.0	60.5	60.8	71.87	-6,786.4	-635.8	433.9	313.3	120.57	3.599	
17,500.0	10,677.0	17,402.1	10,541.0	61.4	61.6	71.87	-6,886.4	-635.2	433.9	311.6	122.25	3.549	
17,600.0	10,677.0	17,502.1	10,541.0	62.2	62.5	71.87	-6,986.4	-634.5	433.9	309.9	123.93	3.501	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #805H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10103-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
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		
17,700.0	10,677.0	17,602.1	10,541.0	63.1	63.3	71.87	-7,086.4	-633.9	433.8	308.2	125.61	3.454		
17,800.0	10,677.0	17,702.1	10,541.0	63.9	64.2	71.87	-7,186.4	-633.3	433.8	306.5	127.29	3.408		
17,900.0	10,677.0	17,802.1	10,541.0	64.8	65.0	71.87	-7,286.4	-632.6	433.8	304.9	128.97	3.364		
18,000.0	10,677.0	17,902.1	10,541.0	65.6	65.9	71.87	-7,386.4	-632.0	433.8	303.2	130.65	3.320		
18,100.0	10,677.0	18,002.1	10,541.0	66.5	66.7	71.87	-7,486.4	-631.4	433.8	301.5	132.34	3.278		
18,200.0	10,677.0	18,102.1	10,541.0	67.3	67.6	71.87	-7,586.4	-630.7	433.8	299.8	134.02	3.237		
18,300.0	10,677.0	18,202.1	10,541.0	68.2	68.4	71.87	-7,686.4	-630.1	433.8	298.1	135.71	3.197		
18,400.0	10,677.0	18,302.1	10,541.0	69.0	69.3	71.86	-7,786.4	-629.5	433.8	296.4	137.39	3.157		
18,500.0	10,677.0	18,402.1	10,541.0	69.9	70.1	71.86	-7,886.4	-628.8	433.8	294.7	139.08	3.119		
18,600.0	10,677.0	18,502.1	10,541.0	70.7	71.0	71.86	-7,986.4	-628.2	433.8	293.0	140.76	3.082		
18,700.0	10,677.0	18,602.1	10,541.0	71.6	71.8	71.86	-8,086.4	-627.6	433.8	291.3	142.45	3.045		
18,800.0	10,677.0	18,702.1	10,541.0	72.4	72.7	71.86	-8,186.4	-627.0	433.7	289.6	144.14	3.009		
18,900.0	10,677.0	18,802.1	10,541.0	73.3	73.5	71.86	-8,286.4	-626.3	433.7	287.9	145.82	2.974		
19,000.0	10,677.0	18,902.1	10,541.0	74.1	74.4	71.86	-8,386.4	-625.7	433.7	286.2	147.51	2.940		
19,100.0	10,677.0	19,002.1	10,541.0	75.0	75.2	71.86	-8,486.4	-625.1	433.7	284.5	149.20	2.907		
19,200.0	10,677.0	19,102.1	10,541.0	75.9	76.1	71.86	-8,586.4	-624.4	433.7	282.8	150.89	2.874		
19,300.0	10,677.0	19,202.1	10,541.0	76.7	76.9	71.86	-8,686.4	-623.8	433.7	281.1	152.58	2.842		
19,400.0	10,677.0	19,302.1	10,541.0	77.6	77.8	71.86	-8,786.4	-623.2	433.7	279.4	154.27	2.811		
19,500.0	10,677.0	19,402.1	10,541.0	78.4	78.7	71.86	-8,886.4	-622.5	433.7	277.7	155.96	2.781		
19,600.0	10,677.0	19,502.1	10,541.0	79.3	79.5	71.86	-8,986.4	-621.9	433.7	276.0	157.65	2.751		
19,700.0	10,677.0	19,602.1	10,541.0	80.1	80.4	71.86	-9,086.4	-621.3	433.7	274.3	159.34	2.722		
19,800.0	10,677.0	19,702.1	10,541.0	81.0	81.2	71.86	-9,186.4	-620.6	433.6	272.6	161.03	2.693		
19,900.0	10,677.0	19,802.1	10,541.0	81.8	82.1	71.86	-9,286.4	-620.0	433.6	270.9	162.72	2.665		
20,000.0	10,677.0	19,902.1	10,541.0	82.7	82.9	71.86	-9,386.4	-619.4	433.6	269.2	164.41	2.637		
20,100.0	10,677.0	20,002.1	10,541.0	83.6	83.8	71.86	-9,486.4	-618.7	433.6	267.5	166.10	2.611		
20,200.0	10,677.0	20,102.1	10,541.0	84.4	84.6	71.86	-9,586.4	-618.1	433.6	265.8	167.80	2.584		
20,300.0	10,677.0	20,202.1	10,541.0	85.3	85.5	71.86	-9,686.4	-617.5	433.6	264.1	169.49	2.558		
20,400.0	10,677.0	20,302.1	10,541.0	86.1	86.4	71.86	-9,786.4	-616.8	433.6	262.4	171.18	2.533		
20,500.0	10,677.0	20,402.1	10,541.0	87.0	87.2	71.86	-9,886.3	-616.2	433.6	260.7	172.87	2.508		
20,600.0	10,677.0	20,502.1	10,541.0	87.8	88.1	71.86	-9,986.3	-615.6	433.6	259.0	174.57	2.484		
20,700.0	10,677.0	20,602.1	10,541.0	88.7	88.9	71.86	-10,086.3	-614.9	433.6	257.3	176.26	2.460		
20,800.0	10,677.0	20,702.1	10,541.0	89.5	89.8	71.86	-10,186.3	-614.3	433.6	255.6	177.95	2.436		
20,821.8	10,677.0	20,723.9	10,541.0	89.7	89.9	71.86	-10,208.1	-614.2	433.6	255.3	178.26	2.432		
20,828.5	10,677.0	20,730.4	10,541.0	89.8	89.9	71.86	-10,214.7	-614.1	433.6	255.2	178.36	2.431		
20,829.4	10,677.0	20,730.4	10,541.0	89.8	89.9	71.86	-10,214.7	-614.1	433.6	255.2	178.37	2.431 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 #806H - OWB - PWP2													Offset Site Error: 3.0 usft	
Survey Program: 0-MWD+IFR1+FDIR				Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)									
0.0	0.0	0.0	0.0	3.0	3.0	-90.49	-0.5	-60.0	60.0					
100.0	100.0	98.0	98.0	3.0	3.0	-90.49	-0.5	-60.0	60.0	54.0	6.00	9.997		
200.0	200.0	198.0	198.0	3.0	3.0	-90.49	-0.5	-60.0	60.0	54.0	6.04	9.935		
300.0	300.0	298.0	298.0	3.0	3.1	-90.49	-0.5	-60.0	60.0	53.9	6.12	9.804		
400.0	400.0	398.0	398.0	3.0	3.2	-90.49	-0.5	-60.0	60.0	53.8	6.24	9.615		
500.0	500.0	498.0	498.0	3.1	3.4	-90.49	-0.5	-60.0	60.0	53.6	6.40	9.381		
600.0	600.0	598.0	598.0	3.1	3.6	-90.49	-0.5	-60.0	60.0	53.4	6.58	9.114		
700.0	700.0	698.0	698.0	3.1	3.8	-90.49	-0.5	-60.0	60.0	53.2	6.80	8.826		
800.0	800.0	798.0	798.0	3.2	4.0	-90.49	-0.5	-60.0	60.0	53.0	7.04	8.527		
900.0	900.0	898.0	898.0	3.2	4.2	-90.49	-0.5	-60.0	60.0	52.7	7.30	8.226		
1,000.0	1,000.0	998.0	998.0	3.2	4.5	-90.49	-0.5	-60.0	60.0	52.4	7.57	7.927		
1,100.0	1,100.0	1,098.0	1,098.0	3.3	4.8	-90.49	-0.5	-60.0	60.0	52.2	7.86	7.636		
1,200.0	1,200.0	1,198.0	1,198.0	3.4	5.1	-90.49	-0.5	-60.0	60.0	51.9	8.16	7.355		
1,300.0	1,300.0	1,298.0	1,298.0	3.4	5.3	-90.49	-0.5	-60.0	60.0	51.5	8.47	7.084		
1,400.0	1,400.0	1,398.0	1,398.0	3.5	5.6	-90.49	-0.5	-60.0	60.0	51.2	8.79	6.826		
1,500.0	1,500.0	1,498.0	1,498.0	3.5	6.0	-90.49	-0.5	-60.0	60.0	50.9	9.12	6.580		
1,600.0	1,600.0	1,598.0	1,598.0	3.6	6.3	-90.49	-0.5	-60.0	60.0	50.6	9.46	6.347		
1,700.0	1,700.0	1,698.0	1,698.0	3.7	6.6	-90.49	-0.5	-60.0	60.0	50.2	9.80	6.126		
1,800.0	1,800.0	1,798.0	1,798.0	3.8	6.9	-90.49	-0.5	-60.0	60.0	49.9	10.14	5.917		
1,900.0	1,900.0	1,898.0	1,898.0	3.9	7.2	-90.49	-0.5	-60.0	60.0	49.5	10.49	5.719		
2,000.0	2,000.0	1,998.0	1,998.0	3.9	7.6	-90.49	-0.5	-60.0	60.0	49.2	10.85	5.531		
2,100.0	2,100.0	2,098.0	2,098.0	4.0	7.9	-90.49	-0.5	-60.0	60.0	48.8	11.21	5.354		
2,200.0	2,200.0	2,198.0	2,198.0	4.1	8.2	-90.49	-0.5	-60.0	60.0	48.4	11.57	5.186		
2,300.0	2,300.0	2,298.0	2,298.0	4.2	8.6	-90.49	-0.5	-60.0	60.0	48.1	11.94	5.027		
2,400.0	2,400.0	2,398.0	2,398.0	4.3	8.9	-90.49	-0.5	-60.0	60.0	47.7	12.31	4.876		
2,500.0	2,500.0	2,498.0	2,498.0	4.4	9.2	-90.49	-0.5	-60.0	60.0	47.3	12.68	4.733 CC, ES		
2,600.0	2,600.0	2,596.0	2,595.9	4.5	9.6	-90.47	-0.5	-61.6	61.7	48.6	13.04	4.730		
2,700.0	2,700.0	2,693.6	2,693.5	4.6	9.9	-90.44	-0.5	-66.6	66.7	53.3	13.37	4.988		
2,800.0	2,800.0	2,790.9	2,790.4	4.7	10.2	-90.39	-0.5	-74.8	75.2	61.5	13.70	5.485		
2,900.0	2,900.0	2,887.5	2,886.3	4.8	10.5	-90.34	-0.5	-86.2	87.0	72.9	14.02	6.202		
3,000.0	3,000.0	2,985.7	2,983.5	4.9	10.8	-90.29	-0.5	-100.2	101.2	86.8	14.38	7.040		
3,100.0	3,100.0	3,084.6	3,081.4	5.0	11.2	-90.26	-0.5	-114.4	115.5	100.8	14.75	7.836		
3,200.0	3,200.0	3,183.6	3,179.4	5.1	11.5	-90.23	-0.5	-128.6	129.9	114.8	15.12	8.591		
3,300.0	3,300.0	3,282.6	3,277.3	5.2	11.8	-90.20	-0.5	-142.8	144.2	128.7	15.50	9.307		
3,400.0	3,400.0	3,381.5	3,375.2	5.3	12.2	-90.19	-0.5	-156.9	158.6	142.7	15.88	9.988		
3,500.0	3,500.0	3,480.5	3,473.2	5.4	12.5	-90.17	-0.5	-171.1	172.9	156.7	16.26	10.635		
3,600.0	3,600.0	3,579.5	3,571.1	5.5	12.9	-90.16	-0.5	-185.3	187.3	170.6	16.65	11.251		
3,700.0	3,700.0	3,678.4	3,669.1	5.7	13.2	-90.15	-0.5	-199.5	201.6	184.6	17.03	11.837		
3,800.0	3,800.0	3,777.4	3,767.0	5.8	13.6	-90.14	-0.5	-213.7	216.0	198.6	17.42	12.395		
3,900.0	3,900.0	3,876.3	3,865.0	5.9	13.9	-90.13	-0.5	-227.9	230.3	212.5	17.82	12.927		
4,000.0	4,000.0	3,975.3	3,962.9	6.0	14.3	-90.12	-0.5	-242.1	244.7	226.5	18.21	13.435		
4,100.0	4,100.0	4,074.3	4,060.8	6.1	14.6	-90.11	-0.5	-256.3	259.0	240.4	18.61	13.920		
4,200.0	4,200.0	4,173.2	4,158.8	6.2	14.9	-90.11	-0.5	-270.5	273.4	254.4	19.01	14.383		
4,300.0	4,300.0	4,272.2	4,256.7	6.3	15.3	-90.10	-0.5	-284.7	287.7	268.3	19.41	14.826		
4,400.0	4,400.0	4,371.2	4,354.7	6.5	15.7	-90.10	-0.5	-298.9	302.1	282.3	19.81	15.250		
4,500.0	4,500.0	4,470.1	4,452.6	6.6	16.0	-90.09	-0.5	-313.1	316.4	296.2	20.21	15.656		
4,600.0	4,600.0	4,569.1	4,550.5	6.7	16.4	-90.09	-0.5	-327.3	330.8	310.1	20.62	16.044		
4,700.0	4,700.0	4,668.1	4,648.5	6.8	16.7	-90.09	-0.5	-341.5	345.1	324.1	21.02	16.417		
4,800.0	4,800.0	4,767.0	4,746.4	6.9	17.1	-90.08	-0.5	-355.7	359.5	338.0	21.43	16.774		
4,900.0	4,900.0	4,866.0	4,844.4	7.0	17.4	-90.08	-0.5	-369.9	373.8	352.0	21.84	17.118		
5,000.0	5,000.0	4,965.0	4,942.3	7.2	17.8	-90.08	-0.5	-384.1	388.2	365.9	22.25	17.447		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 #806H - 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 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	5,063.9	5,040.3	7.3	18.1	-90.07	-0.5	-398.3	402.5	379.8	22.66	17.764		
5,200.0	5,200.0	5,162.9	5,138.2	7.4	18.5	-90.07	-0.5	-412.5	416.8	393.8	23.07	18.069		
5,300.0	5,300.0	5,261.9	5,236.1	7.5	18.8	-90.07	-0.5	-426.7	431.2	407.7	23.48	18.362		
5,400.0	5,400.0	5,360.8	5,334.1	7.6	19.2	-90.07	-0.5	-440.9	445.5	421.6	23.90	18.644		
5,500.0	5,500.0	5,459.8	5,432.0	7.8	19.6	-90.06	-0.5	-455.1	459.9	435.6	24.31	18.916		
5,600.0	5,600.0	5,559.0	5,530.2	7.9	19.9	-29.30	-0.5	-469.4	472.7	448.0	24.73	19.117		
5,671.8	5,671.7	5,630.4	5,600.8	7.9	20.2	-29.42	-0.5	-479.6	480.1	455.1	25.03	19.182		
5,700.0	5,699.8	5,658.4	5,628.6	7.9	20.3	-29.52	-0.5	-483.6	482.7	457.5	25.15	19.195		
5,800.0	5,799.7	5,758.0	5,727.1	8.0	20.6	-29.85	-0.5	-497.9	491.8	466.3	25.57	19.239		
5,900.0	5,899.5	5,857.5	5,825.6	8.1	21.0	-30.17	-0.5	-512.2	501.0	475.1	25.99	19.282		
6,000.0	5,999.3	5,957.0	5,924.1	8.2	21.4	-30.48	-0.5	-526.5	510.3	483.8	26.41	19.323		
6,100.0	6,099.1	6,056.6	6,022.6	8.3	21.7	-30.78	-0.5	-540.8	519.5	492.6	26.83	19.362		
6,200.0	6,198.9	6,156.1	6,121.1	8.4	22.1	-31.07	-0.5	-555.0	528.7	501.5	27.25	19.399		
6,300.0	6,298.8	6,255.7	6,219.6	8.4	22.5	-31.35	-0.5	-569.3	538.0	510.3	27.68	19.435		
6,400.0	6,398.6	6,355.2	6,318.2	8.5	22.8	-31.62	-0.5	-583.6	547.2	519.1	28.11	19.469		
6,500.0	6,498.4	6,454.7	6,416.7	8.6	23.2	-31.88	-0.5	-597.9	556.5	528.0	28.54	19.502		
6,600.0	6,598.2	6,554.3	6,515.2	8.7	23.6	-32.13	-0.5	-612.2	565.8	536.8	28.97	19.533		
6,700.0	6,698.0	6,653.8	6,613.7	8.8	23.9	-32.38	-0.5	-626.4	575.1	545.7	29.40	19.563		
6,800.0	6,797.9	6,753.3	6,712.2	8.9	24.3	-32.61	-0.5	-640.7	584.4	554.6	29.83	19.591		
6,900.0	6,897.7	6,852.9	6,810.7	9.0	24.6	-32.84	-0.5	-655.0	593.7	563.4	30.26	19.618		
7,000.0	6,997.5	6,952.4	6,909.2	9.1	25.0	-33.06	-0.5	-669.3	603.0	572.3	30.70	19.644		
7,100.0	7,097.3	7,052.0	7,007.7	9.2	25.4	-33.28	-0.5	-683.6	612.4	581.2	31.13	19.669		
7,200.0	7,197.1	7,151.5	7,106.2	9.2	25.7	-33.48	-0.5	-697.8	621.7	590.1	31.57	19.693		
7,300.0	7,297.0	7,251.0	7,204.7	9.3	26.1	-33.69	-0.5	-712.1	631.0	599.0	32.01	19.716		
7,400.0	7,396.8	7,350.6	7,303.2	9.4	26.5	-33.88	-0.5	-726.4	640.4	607.9	32.45	19.737		
7,500.0	7,496.6	7,450.1	7,401.7	9.5	26.8	-34.07	-0.5	-740.7	649.8	616.9	32.89	19.758		
7,600.0	7,596.4	7,549.6	7,500.2	9.6	27.2	-34.26	-0.5	-755.0	659.1	625.8	33.33	19.778		
7,700.0	7,696.3	7,649.2	7,598.8	9.7	27.6	-34.44	-0.5	-769.3	668.5	634.7	33.77	19.797		
7,800.0	7,796.1	7,748.7	7,697.3	9.8	27.9	-34.61	-0.5	-783.5	677.9	643.7	34.21	19.815		
7,900.0	7,895.9	7,848.3	7,795.8	9.9	28.3	-34.78	-0.5	-797.8	687.3	652.6	34.66	19.832		
8,000.0	7,995.7	7,947.8	7,894.3	10.0	28.7	-34.95	-0.5	-812.1	696.7	661.6	35.10	19.848		
8,100.0	8,095.5	8,047.3	7,992.8	10.1	29.0	-35.11	-0.5	-826.4	706.1	670.5	35.55	19.864		
8,200.0	8,195.4	8,146.9	8,091.3	10.2	29.4	-35.27	-0.5	-840.7	715.5	679.5	35.99	19.879		
8,300.0	8,295.2	8,246.4	8,189.8	10.3	29.8	-35.42	-0.5	-854.9	724.9	688.5	36.44	19.893		
8,400.0	8,395.0	8,345.9	8,288.3	10.4	30.1	-35.57	-0.5	-869.2	734.3	697.4	36.89	19.906		
8,500.0	8,494.8	8,445.5	8,386.8	10.5	30.5	-35.72	-0.5	-883.5	743.7	706.4	37.34	19.919		
8,600.0	8,594.6	8,545.0	8,485.3	10.6	30.9	-35.86	-0.5	-897.8	753.2	715.4	37.79	19.932		
8,700.0	8,694.5	8,644.6	8,583.8	10.8	31.3	-36.00	-0.5	-912.1	762.6	724.3	38.24	19.943		
8,800.0	8,794.3	8,744.1	8,682.3	10.9	31.6	-36.13	-0.5	-926.3	772.0	733.3	38.69	19.954		
8,900.0	8,894.1	8,843.6	8,780.9	11.0	32.0	-36.26	-0.5	-940.6	781.5	742.3	39.14	19.965		
9,000.0	8,993.9	8,943.2	8,879.4	11.1	32.4	-36.39	-0.5	-954.9	790.9	751.3	39.59	19.975		
9,100.0	9,093.7	9,042.7	8,977.9	11.2	32.7	-36.52	-0.5	-969.2	800.3	760.3	40.05	19.985		
9,200.0	9,193.6	9,142.3	9,076.4	11.3	33.1	-36.64	-0.5	-983.5	809.8	769.3	40.50	19.994		
9,300.0	9,293.4	9,241.8	9,174.9	11.4	33.5	-36.76	-0.5	-997.8	819.2	778.3	40.96	20.002		
9,400.0	9,393.2	9,341.3	9,273.4	11.5	33.8	-36.87	-0.5	-1,012.0	828.7	787.3	41.41	20.011		
9,500.0	9,493.0	9,440.9	9,371.9	11.6	34.2	-36.99	-0.5	-1,026.3	838.2	796.3	41.87	20.018		
9,600.0	9,592.8	9,540.4	9,470.4	11.7	34.6	-37.10	-0.5	-1,040.6	847.6	805.3	42.33	20.026		
9,700.0	9,692.7	9,639.9	9,568.9	11.8	34.9	-37.21	-0.5	-1,054.9	857.1	814.3	42.78	20.033		
9,800.0	9,792.5	9,766.7	9,694.5	11.9	35.4	-37.36	-0.5	-1,071.6	865.6	822.3	43.26	20.007		
9,900.0	9,892.3	9,909.3	9,836.6	12.1	35.9	-37.58	-0.5	-1,084.1	869.4	825.7	43.75	19.872		
10,000.0	9,992.1	10,052.1	9,979.3	12.2	36.4	-37.88	-0.5	-1,089.4	868.4	824.2	44.24	19.628		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 #806H - 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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.0	10,091.9	10,162.8	10,089.9	12.3	36.8	-38.15	-0.5	-1,089.6	863.8	819.2	44.68	19.334		
10,194.3	10,186.1	10,255.3	10,182.5	12.4	37.1	-38.37	-0.5	-1,089.6	859.4	814.3	45.07	19.068		
10,200.0	10,191.8	10,261.0	10,188.2	12.4	37.1	-27.57	-0.5	-1,089.6	859.1	814.0	45.09	19.055		
10,225.0	10,216.7	10,280.6	10,207.8	12.4	37.2	24.84	-1.2	-1,089.6	857.9	812.8	45.16	18.999		
10,250.0	10,241.6	10,300.0	10,227.1	12.4	37.3	50.42	-2.6	-1,089.6	856.7	811.5	45.23	18.941		
10,275.0	10,266.4	10,319.8	10,246.8	12.4	37.3	60.97	-4.9	-1,089.6	855.4	810.1	45.30	18.882		
10,300.0	10,291.1	10,339.4	10,266.1	12.4	37.4	66.41	-7.9	-1,089.6	854.1	808.7	45.38	18.821		
10,325.0	10,315.4	10,359.0	10,285.3	12.4	37.4	69.72	-11.7	-1,089.6	852.8	807.3	45.46	18.758		
10,350.0	10,339.5	10,378.6	10,304.4	12.4	37.5	71.97	-16.3	-1,089.6	851.4	805.9	45.55	18.693		
10,375.0	10,363.2	10,400.0	10,325.0	12.4	37.6	73.64	-22.3	-1,089.5	850.0	804.4	45.63	18.627		
10,400.0	10,386.4	10,417.9	10,341.9	12.4	37.6	74.93	-27.9	-1,089.5	848.6	802.9	45.72	18.561		
10,425.0	10,409.1	10,437.6	10,360.3	12.4	37.7	76.00	-34.9	-1,089.4	847.2	801.4	45.81	18.492		
10,450.0	10,431.3	10,457.3	10,378.5	12.4	37.7	76.91	-42.6	-1,089.4	845.8	799.9	45.91	18.423		
10,475.0	10,452.8	10,475.0	10,394.5	12.5	37.8	77.70	-50.2	-1,089.3	844.3	798.3	46.01	18.353		
10,500.0	10,473.6	10,496.9	10,413.9	12.5	37.9	78.43	-60.4	-1,089.3	842.9	796.8	46.11	18.282		
10,525.0	10,493.7	10,516.9	10,431.2	12.5	37.9	79.10	-70.4	-1,089.2	841.5	795.3	46.21	18.210		
10,550.0	10,512.9	10,536.9	10,448.0	12.5	38.0	79.72	-81.1	-1,089.1	840.1	793.8	46.32	18.137		
10,575.0	10,531.3	10,556.9	10,464.5	12.5	38.0	80.31	-92.6	-1,089.1	838.7	792.3	46.43	18.064		
10,600.0	10,548.8	10,575.0	10,478.8	12.6	38.0	80.85	-103.6	-1,089.0	837.3	790.8	46.54	17.990		
10,625.0	10,565.4	10,597.4	10,496.0	12.6	38.1	81.42	-117.9	-1,088.9	836.0	789.3	46.66	17.917		
10,650.0	10,580.9	10,617.7	10,511.1	12.6	38.1	81.95	-131.6	-1,088.8	834.7	787.9	46.78	17.844		
10,675.0	10,595.4	10,638.2	10,525.7	12.6	38.2	82.47	-146.0	-1,088.7	833.5	786.6	46.90	17.771		
10,700.0	10,608.9	10,658.8	10,539.7	12.6	38.2	82.98	-161.1	-1,088.7	832.3	785.2	47.03	17.698		
10,725.0	10,621.2	10,679.6	10,553.1	12.7	38.3	83.48	-176.9	-1,088.6	831.1	784.0	47.16	17.625		
10,750.0	10,632.3	10,700.0	10,565.6	12.7	38.3	83.97	-193.0	-1,088.5	830.1	782.8	47.29	17.553		
10,775.0	10,642.3	10,721.5	10,578.1	12.7	38.3	84.46	-210.6	-1,088.3	829.1	781.7	47.42	17.484		
10,800.0	10,651.0	10,742.7	10,589.5	12.7	38.4	84.95	-228.4	-1,088.2	828.2	780.6	47.55	17.415		
10,825.0	10,658.5	10,764.1	10,600.3	12.8	38.4	85.42	-246.9	-1,088.1	827.3	779.6	47.69	17.347		
10,850.0	10,664.8	10,785.7	10,610.3	12.8	38.4	85.89	-266.0	-1,088.0	826.6	778.7	47.83	17.282		
10,875.0	10,669.8	10,807.4	10,619.5	12.8	38.5	86.35	-285.7	-1,087.9	825.9	777.9	47.97	17.219		
10,900.0	10,673.5	10,829.4	10,627.9	12.8	38.5	86.81	-306.0	-1,087.7	825.4	777.3	48.10	17.159		
10,925.0	10,675.9	10,851.6	10,635.4	12.9	38.5	87.26	-326.9	-1,087.6	824.9	776.7	48.24	17.101		
10,950.0	10,677.0	10,874.0	10,642.0	12.9	38.6	87.70	-348.3	-1,087.5	824.6	776.2	48.37	17.047		
10,958.5	10,677.0	10,881.7	10,644.1	12.9	38.6	87.85	-355.7	-1,087.4	824.5	776.1	48.42	17.029		
11,000.0	10,677.0	10,920.0	10,652.4	12.9	38.6	88.42	-393.1	-1,087.2	824.2	775.5	48.63	16.946		
11,088.5	10,677.0	11,004.9	10,660.0	13.0	38.7	88.95	-477.6	-1,086.7	824.0	774.9	49.12	16.777		
11,100.0	10,677.0	11,016.4	10,660.0	13.0	38.8	88.95	-489.0	-1,086.6	824.0	774.8	49.18	16.756		
11,200.0	10,677.0	11,116.4	10,660.0	13.2	38.9	88.95	-589.0	-1,086.0	824.0	774.2	49.76	16.560		
11,300.0	10,677.0	11,216.4	10,660.0	13.3	39.1	88.95	-689.0	-1,085.4	824.0	773.6	50.41	16.347		
11,400.0	10,677.0	11,316.4	10,660.0	13.6	39.2	88.95	-789.0	-1,084.7	824.0	772.9	51.11	16.123		
11,500.0	10,677.0	11,416.4	10,660.0	13.9	39.4	88.95	-889.0	-1,084.1	824.0	772.1	51.86	15.888		
11,600.0	10,677.0	11,516.4	10,660.0	14.3	39.6	88.95	-989.0	-1,083.5	824.0	771.3	52.66	15.646		
11,700.0	10,677.0	11,616.4	10,660.0	14.7	39.8	88.95	-1,089.0	-1,082.9	824.0	770.5	53.51	15.399		
11,800.0	10,677.0	11,716.4	10,660.0	15.2	40.0	88.95	-1,189.0	-1,082.3	824.0	769.6	54.39	15.149		
11,900.0	10,677.0	11,816.4	10,660.0	15.8	40.3	88.95	-1,289.0	-1,081.6	824.0	768.7	55.31	14.897		
12,000.0	10,677.0	11,916.4	10,660.0	16.4	40.5	88.95	-1,389.0	-1,081.0	824.0	767.7	56.27	14.644		
12,100.0	10,677.0	12,016.4	10,660.0	17.1	40.8	88.95	-1,489.0	-1,080.4	824.0	766.8	57.25	14.392		
12,200.0	10,677.0	12,116.4	10,660.0	17.8	41.1	88.95	-1,589.0	-1,079.8	824.0	765.7	58.27	14.142		
12,300.0	10,677.0	12,216.4	10,660.0	18.5	41.4	88.95	-1,689.0	-1,079.1	824.0	764.7	59.31	13.893		
12,400.0	10,677.0	12,316.4	10,660.0	19.2	41.7	88.95	-1,789.0	-1,078.5	824.0	763.6	60.38	13.648		
12,500.0	10,677.0	12,416.4	10,660.0	20.0	42.0	88.95	-1,889.0	-1,077.9	824.0	762.5	61.47	13.405		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 #806H - 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		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
12,600.0	10,677.0	12,516.4	10,660.0	20.7	42.4	88.95	-1,989.0	-1,077.3			824.0	761.4	62.58	13.167
12,700.0	10,677.0	12,616.4	10,660.0	21.5	42.7	88.95	-2,089.0	-1,076.7			824.0	760.3	63.72	12.932
12,800.0	10,677.0	12,716.4	10,660.0	22.2	43.1	88.95	-2,189.0	-1,076.0			824.0	759.1	64.88	12.701
12,900.0	10,677.0	12,816.4	10,660.0	23.0	43.5	88.95	-2,289.0	-1,075.4			824.0	758.0	66.05	12.475
13,000.0	10,677.0	12,916.4	10,660.0	23.8	43.9	88.95	-2,389.0	-1,074.8			824.0	756.8	67.25	12.254
13,100.0	10,677.0	13,016.4	10,660.0	24.6	44.3	88.95	-2,489.0	-1,074.2			824.0	755.6	68.46	12.037
13,200.0	10,677.0	13,116.4	10,660.0	25.4	44.7	88.95	-2,589.0	-1,073.5			824.0	754.3	69.69	11.824
13,300.0	10,677.0	13,216.4	10,660.0	26.2	45.2	88.95	-2,689.0	-1,072.9			824.0	753.1	70.93	11.617
13,400.0	10,677.0	13,316.4	10,660.0	27.0	45.6	88.95	-2,789.0	-1,072.3			824.0	751.8	72.20	11.414
13,500.0	10,677.0	13,416.4	10,660.0	27.8	46.1	88.95	-2,889.0	-1,071.7			824.0	750.6	73.47	11.216
13,600.0	10,677.0	13,516.4	10,660.0	28.6	46.6	88.95	-2,989.0	-1,071.1			824.0	749.3	74.76	11.022
13,700.0	10,677.0	13,616.4	10,660.0	29.4	47.0	88.95	-3,089.0	-1,070.4			824.0	748.0	76.06	10.833
13,800.0	10,677.0	13,716.4	10,660.0	30.2	47.5	88.95	-3,189.0	-1,069.8			824.0	746.6	77.38	10.649
13,900.0	10,677.0	13,816.4	10,660.0	31.1	48.0	88.95	-3,289.0	-1,069.2			824.0	745.3	78.71	10.469
14,000.0	10,677.0	13,916.4	10,660.0	31.9	48.5	88.95	-3,389.0	-1,068.6			824.0	744.0	80.05	10.294
14,100.0	10,677.0	14,016.4	10,660.0	32.7	49.1	88.95	-3,489.0	-1,068.0			824.0	742.6	81.41	10.123
14,200.0	10,677.0	14,116.4	10,660.0	33.5	49.6	88.95	-3,589.0	-1,067.3			824.0	741.3	82.77	9.956
14,300.0	10,677.0	14,216.4	10,660.0	34.4	50.1	88.95	-3,689.0	-1,066.7			824.0	739.9	84.14	9.793
14,400.0	10,677.0	14,316.4	10,660.0	35.2	50.7	88.95	-3,789.0	-1,066.1			824.0	738.5	85.53	9.635
14,500.0	10,677.0	14,416.4	10,660.0	36.0	51.2	88.95	-3,889.0	-1,065.5			824.0	737.1	86.93	9.480
14,600.0	10,677.0	14,516.4	10,660.0	36.9	51.8	88.95	-3,989.0	-1,064.8			824.0	735.7	88.33	9.329
14,700.0	10,677.0	14,616.4	10,660.0	37.7	52.4	88.95	-4,089.0	-1,064.2			824.0	734.3	89.74	9.182
14,800.0	10,677.0	14,716.4	10,660.0	38.5	53.0	88.95	-4,189.0	-1,063.6			824.0	732.9	91.17	9.039
14,900.0	10,677.0	14,816.4	10,660.0	39.4	53.6	88.95	-4,289.0	-1,063.0			824.0	731.4	92.60	8.899
15,000.0	10,677.0	14,916.4	10,660.0	40.2	54.2	88.95	-4,389.0	-1,062.4			824.0	730.0	94.04	8.763
15,100.0	10,677.0	15,016.4	10,660.0	41.0	54.8	88.95	-4,489.0	-1,061.7			824.0	728.6	95.48	8.630
15,200.0	10,677.0	15,116.4	10,660.0	41.9	55.4	88.95	-4,589.0	-1,061.1			824.1	727.1	96.94	8.501
15,300.0	10,677.0	15,216.4	10,660.0	42.7	56.0	88.95	-4,689.0	-1,060.5			824.1	725.7	98.40	8.374
15,400.0	10,677.0	15,316.4	10,660.0	43.6	56.6	88.95	-4,789.0	-1,059.9			824.1	724.2	99.87	8.251
15,500.0	10,677.0	15,416.4	10,660.0	44.4	57.2	88.95	-4,889.0	-1,059.2			824.1	722.7	101.35	8.131
15,600.0	10,677.0	15,516.4	10,660.0	45.2	57.9	88.95	-4,989.0	-1,058.6			824.1	721.2	102.83	8.014
15,700.0	10,677.0	15,616.4	10,660.0	46.1	58.5	88.95	-5,089.0	-1,058.0			824.1	719.7	104.32	7.899
15,800.0	10,677.0	15,716.4	10,660.0	46.9	59.2	88.95	-5,189.0	-1,057.4			824.1	718.2	105.82	7.788
15,900.0	10,677.0	15,816.4	10,660.0	47.8	59.8	88.95	-5,289.0	-1,056.8			824.1	716.7	107.32	7.679
16,000.0	10,677.0	15,916.4	10,660.0	48.6	60.5	88.95	-5,389.0	-1,056.1			824.1	715.2	108.82	7.572
16,100.0	10,677.0	16,016.4	10,660.0	49.5	61.1	88.95	-5,489.0	-1,055.5			824.1	713.7	110.34	7.469
16,200.0	10,677.0	16,116.4	10,660.0	50.3	61.8	88.95	-5,589.0	-1,054.9			824.1	712.2	111.85	7.367
16,300.0	10,677.0	16,216.4	10,660.0	51.2	62.5	88.95	-5,689.0	-1,054.3			824.1	710.7	113.38	7.268
16,400.0	10,677.0	16,316.4	10,660.0	52.0	63.1	88.95	-5,789.0	-1,053.6			824.1	709.2	114.90	7.172
16,500.0	10,677.0	16,416.4	10,660.0	52.9	63.8	88.95	-5,889.0	-1,053.0			824.1	707.6	116.44	7.077
16,600.0	10,677.0	16,516.4	10,660.0	53.7	64.5	88.95	-5,989.0	-1,052.4			824.1	706.1	117.98	6.985
16,700.0	10,677.0	16,616.4	10,660.0	54.6	65.2	88.95	-6,089.0	-1,051.8			824.1	704.6	119.52	6.895
16,800.0	10,677.0	16,716.4	10,660.0	55.4	65.9	88.95	-6,189.0	-1,051.2			824.1	703.0	121.06	6.807
16,900.0	10,677.0	16,816.4	10,660.0	56.3	66.6	88.95	-6,289.0	-1,050.5			824.1	701.5	122.61	6.721
17,000.0	10,677.0	16,916.4	10,660.0	57.1	67.3	88.96	-6,389.0	-1,049.9			824.1	699.9	124.17	6.637
17,100.0	10,677.0	17,016.4	10,660.0	58.0	68.0	88.96	-6,489.0	-1,049.3			824.1	698.4	125.73	6.555
17,200.0	10,677.0	17,116.4	10,660.0	58.8	68.7	88.96	-6,589.0	-1,048.7			824.1	696.8	127.29	6.474
17,300.0	10,677.0	17,216.4	10,660.0	59.7	69.4	88.96	-6,689.0	-1,048.0			824.1	695.2	128.86	6.395
17,400.0	10,677.0	17,316.4	10,660.0	60.5	70.1	88.96	-6,789.0	-1,047.4			824.1	693.7	130.42	6.318
17,500.0	10,677.0	17,416.4	10,660.0	61.4	70.9	88.96	-6,889.0	-1,046.8			824.1	692.1	132.00	6.243
17,600.0	10,677.0	17,516.4	10,660.0	62.2	71.6	88.96	-6,989.0	-1,046.2			824.1	690.5	133.57	6.169

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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 #806H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,700.0	10,677.0	17,616.4	10,660.0	63.1	72.3	88.96	-7,088.9	-1,045.6	824.1	688.9	135.15	6.097		
17,800.0	10,677.0	17,716.4	10,660.0	63.9	73.0	88.96	-7,188.9	-1,044.9	824.1	687.4	136.74	6.027		
17,900.0	10,677.0	17,816.4	10,660.0	64.8	73.8	88.96	-7,288.9	-1,044.3	824.1	685.8	138.32	5.958		
18,000.0	10,677.0	17,916.4	10,660.0	65.6	74.5	88.96	-7,388.9	-1,043.7	824.1	684.2	139.91	5.890		
18,100.0	10,677.0	18,016.4	10,660.0	66.5	75.2	88.96	-7,488.9	-1,043.1	824.1	682.6	141.50	5.824		
18,200.0	10,677.0	18,116.4	10,660.0	67.3	76.0	88.96	-7,588.9	-1,042.4	824.1	681.0	143.10	5.759		
18,300.0	10,677.0	18,216.4	10,660.0	68.2	76.7	88.96	-7,688.9	-1,041.8	824.1	679.4	144.69	5.695		
18,400.0	10,677.0	18,316.4	10,660.0	69.0	77.5	88.96	-7,788.9	-1,041.2	824.1	677.8	146.29	5.633		
18,500.0	10,677.0	18,416.4	10,660.0	69.9	78.2	88.96	-7,888.9	-1,040.6	824.1	676.2	147.90	5.572		
18,600.0	10,677.0	18,516.4	10,660.0	70.7	78.9	88.96	-7,988.9	-1,040.0	824.1	674.6	149.50	5.512		
18,700.0	10,677.0	18,616.4	10,660.0	71.6	79.7	88.96	-8,088.9	-1,039.3	824.1	673.0	151.11	5.454		
18,800.0	10,677.0	18,716.4	10,660.0	72.4	80.5	88.96	-8,188.9	-1,038.7	824.1	671.4	152.72	5.396		
18,900.0	10,677.0	18,816.4	10,660.0	73.3	81.2	88.96	-8,288.9	-1,038.1	824.1	669.8	154.33	5.340		
19,000.0	10,677.0	18,916.4	10,660.0	74.1	82.0	88.96	-8,388.9	-1,037.5	824.1	668.2	155.94	5.285		
19,100.0	10,677.0	19,016.4	10,660.0	75.0	82.7	88.96	-8,488.9	-1,036.8	824.1	666.5	157.56	5.230		
19,200.0	10,677.0	19,116.4	10,660.0	75.9	83.5	88.96	-8,588.9	-1,036.2	824.1	664.9	159.18	5.177		
19,300.0	10,677.0	19,216.4	10,660.0	76.7	84.2	88.96	-8,688.9	-1,035.6	824.1	663.3	160.80	5.125		
19,400.0	10,677.0	19,316.4	10,660.0	77.6	85.0	88.96	-8,788.9	-1,035.0	824.1	661.7	162.42	5.074		
19,500.0	10,677.0	19,416.4	10,660.0	78.4	85.8	88.96	-8,888.9	-1,034.4	824.1	660.1	164.04	5.024		
19,600.0	10,677.0	19,516.4	10,660.0	79.3	86.5	88.96	-8,988.9	-1,033.7	824.1	658.4	165.67	4.974		
19,700.0	10,677.0	19,616.4	10,660.0	80.1	87.3	88.96	-9,088.9	-1,033.1	824.1	656.8	167.30	4.926		
19,800.0	10,677.0	19,716.4	10,660.0	81.0	88.1	88.96	-9,188.9	-1,032.5	824.1	655.2	168.93	4.878		
19,900.0	10,677.0	19,816.4	10,660.0	81.8	88.9	88.96	-9,288.9	-1,031.9	824.1	653.6	170.56	4.832		
20,000.0	10,677.0	19,916.4	10,660.0	82.7	89.6	88.96	-9,388.9	-1,031.3	824.1	651.9	172.19	4.786		
20,100.0	10,677.0	20,016.4	10,660.0	83.6	90.4	88.96	-9,488.9	-1,030.6	824.1	650.3	173.83	4.741		
20,200.0	10,677.0	20,116.4	10,660.0	84.4	91.2	88.96	-9,588.9	-1,030.0	824.1	648.7	175.46	4.697		
20,300.0	10,677.0	20,216.4	10,660.0	85.3	92.0	88.96	-9,688.9	-1,029.4	824.1	647.0	177.10	4.653		
20,400.0	10,677.0	20,316.4	10,660.0	86.1	92.8	88.96	-9,788.9	-1,028.8	824.1	645.4	178.74	4.611		
20,500.0	10,677.0	20,416.4	10,660.0	87.0	93.5	88.96	-9,888.9	-1,028.1	824.1	643.7	180.38	4.569		
20,600.0	10,677.0	20,516.4	10,660.0	87.8	94.3	88.96	-9,988.9	-1,027.5	824.1	642.1	182.02	4.528		
20,700.0	10,677.0	20,616.4	10,660.0	88.7	95.1	88.96	-10,088.9	-1,026.9	824.1	640.5	183.67	4.487		
20,800.0	10,677.0	20,716.4	10,660.0	89.5	95.9	88.96	-10,188.9	-1,026.3	824.1	638.8	185.31	4.447		
20,802.4	10,677.0	20,718.8	10,660.0	89.6	95.9	88.96	-10,191.3	-1,026.3	824.1	638.8	185.35	4.446		
20,828.5	10,677.0	20,744.6	10,660.0	89.8	96.1	88.96	-10,217.1	-1,026.1	824.1	638.4	185.78	4.436		
20,829.4	10,677.0	20,744.6	10,660.0	89.8	96.1	88.96	-10,217.1	-1,026.1	824.1	638.3	185.79	4.436 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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' @ 3179.0usft (P 84)

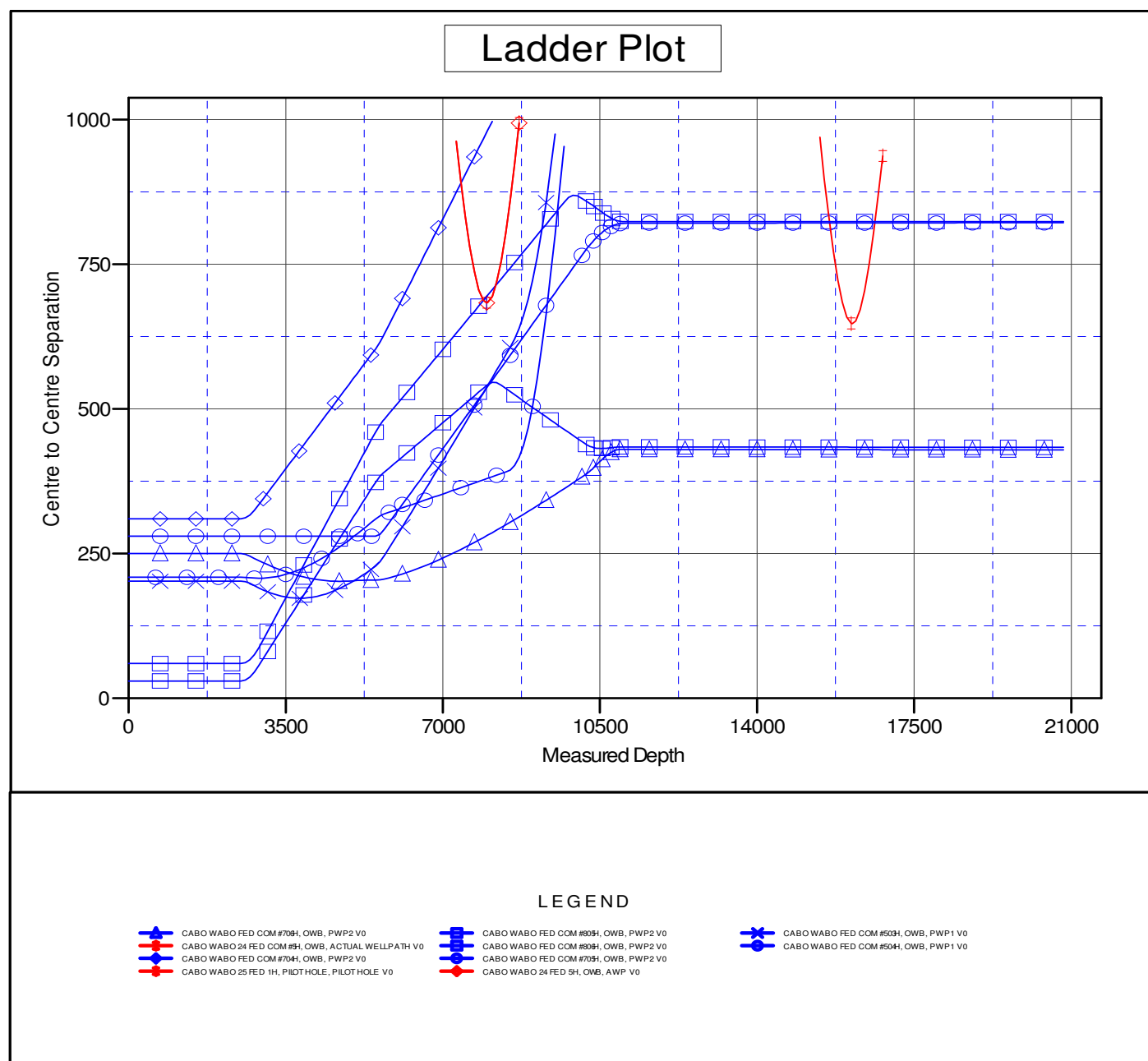
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #804H

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

Grid Convergence at Surface is: 0.21°



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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #804H	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' @ 3179.0usft (P 84)

Offset Depths are relative to Offset Datum

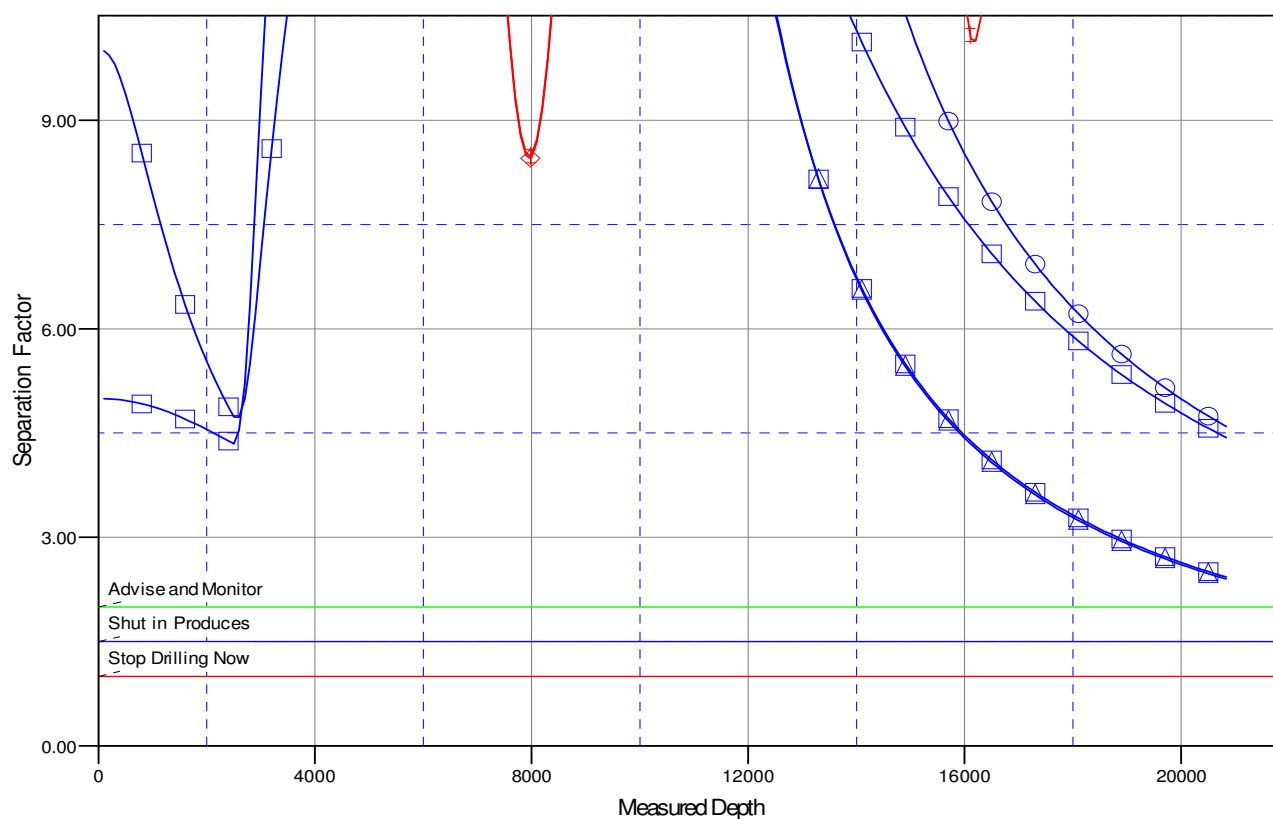
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #804H

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

Grid Convergence at Surface is: 0.21°

Separation Factor Plot



LEGEND

CABO WABO FED COM #704H, OWB, PWP2 V0	CABO WABO FED COM #804H, OWB, PWP2 V0	CABO WABO FED COM #503H, OWB, PWP1 V0
CABO WABO 24 FED COM #5H, OWB, ACTUAL WELLPATH V0	CABO WABO FED COM #804H, OWB, PWP2 V0	CABO WABO FED COM #504H, OWB, PWP1 V0
CABO WABO FED COM #704H, OWB, PWP2 V0	CABO WABO FED COM #704H, OWB, PWP2 V0	
CABO WABO 25 FED 1H, PILOT HOLE, PILOT HOLE V0	CABO WABO 24 FED 5H, OWB, AWP 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 #804H

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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 #804H			
Well Position	+N/-S	0.0 usft	Northing:	408,349.66 usft
	+E/-W	0.0 usft	Easting:	621,309.82 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 7' 19.428 N
			Longitude:	103° 56' 29.349 W
			Ground Level:	3,154.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	10/12/2021	6.67	59.77	47,570.12765474

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	181.13	

Survey Tool Program	Date	10/12/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,194.3	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,194.3	20,828.5	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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	299.26	5,600.0	0.9	-1.5	-0.8	2.00	2.00	0.00
5,671.8	3.44	299.26	5,671.7	2.5	-4.5	-2.4	2.00	2.00	0.00
Start 4522.5 hold at 5671.8 MD									
5,700.0	3.44	299.26	5,699.8	3.3	-6.0	-3.2	0.00	0.00	0.00
5,800.0	3.44	299.26	5,799.7	6.3	-11.2	-6.0	0.00	0.00	0.00
5,900.0	3.44	299.26	5,899.5	9.2	-16.4	-8.9	0.00	0.00	0.00
6,000.0	3.44	299.26	5,999.3	12.1	-21.7	-11.7	0.00	0.00	0.00
6,100.0	3.44	299.26	6,099.1	15.1	-26.9	-14.5	0.00	0.00	0.00
6,200.0	3.44	299.26	6,198.9	18.0	-32.1	-17.4	0.00	0.00	0.00
6,300.0	3.44	299.26	6,298.8	20.9	-37.3	-20.2	0.00	0.00	0.00
6,400.0	3.44	299.26	6,398.6	23.8	-42.6	-23.0	0.00	0.00	0.00
6,500.0	3.44	299.26	6,498.4	26.8	-47.8	-25.8	0.00	0.00	0.00
6,600.0	3.44	299.26	6,598.2	29.7	-53.0	-28.7	0.00	0.00	0.00
6,700.0	3.44	299.26	6,698.0	32.6	-58.3	-31.5	0.00	0.00	0.00
6,800.0	3.44	299.26	6,797.9	35.6	-63.5	-34.3	0.00	0.00	0.00
6,900.0	3.44	299.26	6,897.7	38.5	-68.7	-37.1	0.00	0.00	0.00
7,000.0	3.44	299.26	6,997.5	41.4	-74.0	-40.0	0.00	0.00	0.00
7,100.0	3.44	299.26	7,097.3	44.4	-79.2	-42.8	0.00	0.00	0.00
7,200.0	3.44	299.26	7,197.1	47.3	-84.4	-45.6	0.00	0.00	0.00
7,300.0	3.44	299.26	7,297.0	50.2	-89.6	-48.4	0.00	0.00	0.00
7,400.0	3.44	299.26	7,396.8	53.1	-94.9	-51.3	0.00	0.00	0.00
7,500.0	3.44	299.26	7,496.6	56.1	-100.1	-54.1	0.00	0.00	0.00
7,600.0	3.44	299.26	7,596.4	59.0	-105.3	-56.9	0.00	0.00	0.00
7,700.0	3.44	299.26	7,696.3	61.9	-110.6	-59.7	0.00	0.00	0.00
7,800.0	3.44	299.26	7,796.1	64.9	-115.8	-62.6	0.00	0.00	0.00
7,900.0	3.44	299.26	7,895.9	67.8	-121.0	-65.4	0.00	0.00	0.00
8,000.0	3.44	299.26	7,995.7	70.7	-126.2	-68.2	0.00	0.00	0.00
8,100.0	3.44	299.26	8,095.5	73.6	-131.5	-71.0	0.00	0.00	0.00
8,200.0	3.44	299.26	8,195.4	76.6	-136.7	-73.9	0.00	0.00	0.00
8,300.0	3.44	299.26	8,295.2	79.5	-141.9	-76.7	0.00	0.00	0.00
8,400.0	3.44	299.26	8,395.0	82.4	-147.2	-79.5	0.00	0.00	0.00
8,500.0	3.44	299.26	8,494.8	85.4	-152.4	-82.3	0.00	0.00	0.00
8,600.0	3.44	299.26	8,594.6	88.3	-157.6	-85.2	0.00	0.00	0.00
8,700.0	3.44	299.26	8,694.5	91.2	-162.9	-88.0	0.00	0.00	0.00
8,800.0	3.44	299.26	8,794.3	94.2	-168.1	-90.8	0.00	0.00	0.00
8,900.0	3.44	299.26	8,894.1	97.1	-173.3	-93.6	0.00	0.00	0.00
9,000.0	3.44	299.26	8,993.9	100.0	-178.5	-96.5	0.00	0.00	0.00
9,100.0	3.44	299.26	9,093.7	102.9	-183.8	-99.3	0.00	0.00	0.00
9,200.0	3.44	299.26	9,193.6	105.9	-189.0	-102.1	0.00	0.00	0.00
9,300.0	3.44	299.26	9,293.4	108.8	-194.2	-104.9	0.00	0.00	0.00
9,400.0	3.44	299.26	9,393.2	111.7	-199.5	-107.8	0.00	0.00	0.00
9,500.0	3.44	299.26	9,493.0	114.7	-204.7	-110.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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	3.44	299.26	9,592.8	117.6	-209.9	-113.4	0.00	0.00	0.00
9,700.0	3.44	299.26	9,692.7	120.5	-215.1	-116.2	0.00	0.00	0.00
9,800.0	3.44	299.26	9,792.5	123.4	-220.4	-119.1	0.00	0.00	0.00
9,900.0	3.44	299.26	9,892.3	126.4	-225.6	-121.9	0.00	0.00	0.00
10,000.0	3.44	299.26	9,992.1	129.3	-230.8	-124.7	0.00	0.00	0.00
10,100.0	3.44	299.26	10,091.9	132.2	-236.1	-127.5	0.00	0.00	0.00
10,194.3	3.44	299.26	10,186.1	135.0	-241.0	-130.2	0.00	0.00	0.00
Start DLS 12.00 TFO -119.57									
10,200.0	3.16	288.46	10,191.8	135.1	-241.3	-130.3	12.00	-4.94	-190.65
10,300.0	11.38	194.68	10,291.1	126.4	-246.4	-121.5	12.00	8.22	-93.78
10,400.0	23.17	186.65	10,386.4	97.2	-251.2	-92.3	12.00	11.79	-8.03
10,500.0	35.09	183.90	10,473.6	48.9	-255.5	-43.8	12.00	11.93	-2.75
10,600.0	47.06	182.43	10,548.8	-16.6	-259.0	21.8	12.00	11.96	-1.48
10,700.0	59.03	181.44	10,608.9	-96.4	-261.6	101.5	12.00	11.97	-0.99
10,800.0	71.01	180.67	10,651.0	-186.8	-263.3	192.0	12.00	11.98	-0.77
10,900.0	82.99	180.01	10,673.5	-284.1	-263.8	289.2	12.00	11.98	-0.66
10,958.5	90.00	179.64	10,677.0	-342.4	-263.7	347.6	12.00	11.98	-0.63
Start 9870.0 hold at 10958.5 MD									
11,000.0	90.00	179.64	10,677.0	-383.9	-263.4	389.1	0.00	0.00	0.00
11,100.0	90.00	179.64	10,677.0	-483.9	-262.8	489.0	0.00	0.00	0.00
11,200.0	90.00	179.64	10,677.0	-583.9	-262.1	589.0	0.00	0.00	0.00
11,300.0	90.00	179.64	10,677.0	-683.9	-261.5	689.0	0.00	0.00	0.00
11,400.0	90.00	179.64	10,677.0	-783.9	-260.9	788.9	0.00	0.00	0.00
11,500.0	90.00	179.64	10,677.0	-883.9	-260.3	888.9	0.00	0.00	0.00
11,600.0	90.00	179.64	10,677.0	-983.9	-259.7	988.9	0.00	0.00	0.00
11,700.0	90.00	179.64	10,677.0	-1,083.9	-259.0	1,088.8	0.00	0.00	0.00
11,800.0	90.00	179.64	10,677.0	-1,183.9	-258.4	1,188.8	0.00	0.00	0.00
11,900.0	90.00	179.64	10,677.0	-1,283.9	-257.8	1,288.8	0.00	0.00	0.00
12,000.0	90.00	179.64	10,677.0	-1,383.9	-257.2	1,388.7	0.00	0.00	0.00
12,100.0	90.00	179.64	10,677.0	-1,483.9	-256.5	1,488.7	0.00	0.00	0.00
12,200.0	90.00	179.64	10,677.0	-1,583.9	-255.9	1,588.7	0.00	0.00	0.00
12,300.0	90.00	179.64	10,677.0	-1,683.9	-255.3	1,688.6	0.00	0.00	0.00
12,400.0	90.00	179.64	10,677.0	-1,783.9	-254.7	1,788.6	0.00	0.00	0.00
12,500.0	90.00	179.64	10,677.0	-1,883.9	-254.0	1,888.6	0.00	0.00	0.00
12,600.0	90.00	179.64	10,677.0	-1,983.9	-253.4	1,988.5	0.00	0.00	0.00
12,700.0	90.00	179.64	10,677.0	-2,083.9	-252.8	2,088.5	0.00	0.00	0.00
12,800.0	90.00	179.64	10,677.0	-2,183.9	-252.2	2,188.5	0.00	0.00	0.00
12,900.0	90.00	179.64	10,677.0	-2,283.9	-251.5	2,288.4	0.00	0.00	0.00
13,000.0	90.00	179.64	10,677.0	-2,383.9	-250.9	2,388.4	0.00	0.00	0.00
13,100.0	90.00	179.64	10,677.0	-2,483.9	-250.3	2,488.4	0.00	0.00	0.00
13,200.0	90.00	179.64	10,677.0	-2,583.9	-249.7	2,588.3	0.00	0.00	0.00
13,300.0	90.00	179.64	10,677.0	-2,683.9	-249.1	2,688.3	0.00	0.00	0.00
13,400.0	90.00	179.64	10,677.0	-2,783.9	-248.4	2,788.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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	179.64	10,677.0	-2,883.9	-247.8	2,888.2	0.00	0.00	0.00
13,600.0	90.00	179.64	10,677.0	-2,983.9	-247.2	2,988.2	0.00	0.00	0.00
13,700.0	90.00	179.64	10,677.0	-3,083.9	-246.6	3,088.1	0.00	0.00	0.00
13,800.0	90.00	179.64	10,677.0	-3,183.9	-245.9	3,188.1	0.00	0.00	0.00
13,900.0	90.00	179.64	10,677.0	-3,283.9	-245.3	3,288.1	0.00	0.00	0.00
14,000.0	90.00	179.64	10,677.0	-3,383.9	-244.7	3,388.0	0.00	0.00	0.00
14,100.0	90.00	179.64	10,677.0	-3,483.9	-244.1	3,488.0	0.00	0.00	0.00
14,200.0	90.00	179.64	10,677.0	-3,583.9	-243.4	3,588.0	0.00	0.00	0.00
14,300.0	90.00	179.64	10,677.0	-3,683.9	-242.8	3,687.9	0.00	0.00	0.00
14,400.0	90.00	179.64	10,677.0	-3,783.9	-242.2	3,787.9	0.00	0.00	0.00
14,500.0	90.00	179.64	10,677.0	-3,883.9	-241.6	3,887.9	0.00	0.00	0.00
14,600.0	90.00	179.64	10,677.0	-3,983.9	-241.0	3,987.8	0.00	0.00	0.00
14,700.0	90.00	179.64	10,677.0	-4,083.9	-240.3	4,087.8	0.00	0.00	0.00
14,800.0	90.00	179.64	10,677.0	-4,183.9	-239.7	4,187.8	0.00	0.00	0.00
14,900.0	90.00	179.64	10,677.0	-4,283.9	-239.1	4,287.7	0.00	0.00	0.00
15,000.0	90.00	179.64	10,677.0	-4,383.8	-238.5	4,387.7	0.00	0.00	0.00
15,100.0	90.00	179.64	10,677.0	-4,483.8	-237.8	4,487.7	0.00	0.00	0.00
15,200.0	90.00	179.64	10,677.0	-4,583.8	-237.2	4,587.6	0.00	0.00	0.00
15,300.0	90.00	179.64	10,677.0	-4,683.8	-236.6	4,687.6	0.00	0.00	0.00
15,400.0	90.00	179.64	10,677.0	-4,783.8	-236.0	4,787.6	0.00	0.00	0.00
15,500.0	90.00	179.64	10,677.0	-4,883.8	-235.3	4,887.5	0.00	0.00	0.00
15,600.0	90.00	179.64	10,677.0	-4,983.8	-234.7	4,987.5	0.00	0.00	0.00
15,700.0	90.00	179.64	10,677.0	-5,083.8	-234.1	5,087.5	0.00	0.00	0.00
15,800.0	90.00	179.64	10,677.0	-5,183.8	-233.5	5,187.4	0.00	0.00	0.00
15,900.0	90.00	179.64	10,677.0	-5,283.8	-232.8	5,287.4	0.00	0.00	0.00
16,000.0	90.00	179.64	10,677.0	-5,383.8	-232.2	5,387.4	0.00	0.00	0.00
16,100.0	90.00	179.64	10,677.0	-5,483.8	-231.6	5,487.3	0.00	0.00	0.00
16,200.0	90.00	179.64	10,677.0	-5,583.8	-231.0	5,587.3	0.00	0.00	0.00
16,300.0	90.00	179.64	10,677.0	-5,683.8	-230.4	5,687.3	0.00	0.00	0.00
16,400.0	90.00	179.64	10,677.0	-5,783.8	-229.7	5,787.2	0.00	0.00	0.00
16,500.0	90.00	179.64	10,677.0	-5,883.8	-229.1	5,887.2	0.00	0.00	0.00
16,600.0	90.00	179.64	10,677.0	-5,983.8	-228.5	5,987.2	0.00	0.00	0.00
16,700.0	90.00	179.64	10,677.0	-6,083.8	-227.9	6,087.1	0.00	0.00	0.00
16,800.0	90.00	179.64	10,677.0	-6,183.8	-227.2	6,187.1	0.00	0.00	0.00
16,900.0	90.00	179.64	10,677.0	-6,283.8	-226.6	6,287.1	0.00	0.00	0.00
17,000.0	90.00	179.64	10,677.0	-6,383.8	-226.0	6,387.0	0.00	0.00	0.00
17,100.0	90.00	179.64	10,677.0	-6,483.8	-225.4	6,487.0	0.00	0.00	0.00
17,200.0	90.00	179.64	10,677.0	-6,583.8	-224.7	6,587.0	0.00	0.00	0.00
17,300.0	90.00	179.64	10,677.0	-6,683.8	-224.1	6,686.9	0.00	0.00	0.00
17,400.0	90.00	179.64	10,677.0	-6,783.8	-223.5	6,786.9	0.00	0.00	0.00
17,500.0	90.00	179.64	10,677.0	-6,883.8	-222.9	6,886.9	0.00	0.00	0.00
17,600.0	90.00	179.64	10,677.0	-6,983.8	-222.2	6,986.8	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	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	179.64	10,677.0	-7,083.8	-221.6	7,086.8	0.00	0.00	0.00
17,800.0	90.00	179.64	10,677.0	-7,183.8	-221.0	7,186.8	0.00	0.00	0.00
17,900.0	90.00	179.64	10,677.0	-7,283.8	-220.4	7,286.7	0.00	0.00	0.00
18,000.0	90.00	179.64	10,677.0	-7,383.8	-219.8	7,386.7	0.00	0.00	0.00
18,100.0	90.00	179.64	10,677.0	-7,483.8	-219.1	7,486.7	0.00	0.00	0.00
18,200.0	90.00	179.64	10,677.0	-7,583.8	-218.5	7,586.6	0.00	0.00	0.00
18,300.0	90.00	179.64	10,677.0	-7,683.8	-217.9	7,686.6	0.00	0.00	0.00
18,400.0	90.00	179.64	10,677.0	-7,783.8	-217.3	7,786.6	0.00	0.00	0.00
18,500.0	90.00	179.64	10,677.0	-7,883.8	-216.6	7,886.5	0.00	0.00	0.00
18,600.0	90.00	179.64	10,677.0	-7,983.8	-216.0	7,986.5	0.00	0.00	0.00
18,700.0	90.00	179.64	10,677.0	-8,083.8	-215.4	8,086.5	0.00	0.00	0.00
18,800.0	90.00	179.64	10,677.0	-8,183.8	-214.8	8,186.4	0.00	0.00	0.00
18,900.0	90.00	179.64	10,677.0	-8,283.8	-214.1	8,286.4	0.00	0.00	0.00
19,000.0	90.00	179.64	10,677.0	-8,383.8	-213.5	8,386.4	0.00	0.00	0.00
19,100.0	90.00	179.64	10,677.0	-8,483.8	-212.9	8,486.3	0.00	0.00	0.00
19,200.0	90.00	179.64	10,677.0	-8,583.8	-212.3	8,586.3	0.00	0.00	0.00
19,300.0	90.00	179.64	10,677.0	-8,683.8	-211.6	8,686.3	0.00	0.00	0.00
19,400.0	90.00	179.64	10,677.0	-8,783.8	-211.0	8,786.2	0.00	0.00	0.00
19,500.0	90.00	179.64	10,677.0	-8,883.8	-210.4	8,886.2	0.00	0.00	0.00
19,600.0	90.00	179.64	10,677.0	-8,983.8	-209.8	8,986.2	0.00	0.00	0.00
19,700.0	90.00	179.64	10,677.0	-9,083.8	-209.2	9,086.1	0.00	0.00	0.00
19,800.0	90.00	179.64	10,677.0	-9,183.8	-208.5	9,186.1	0.00	0.00	0.00
19,900.0	90.00	179.64	10,677.0	-9,283.8	-207.9	9,286.0	0.00	0.00	0.00
20,000.0	90.00	179.64	10,677.0	-9,383.8	-207.3	9,386.0	0.00	0.00	0.00
20,100.0	90.00	179.64	10,677.0	-9,483.7	-206.7	9,486.0	0.00	0.00	0.00
20,200.0	90.00	179.64	10,677.0	-9,583.7	-206.0	9,585.9	0.00	0.00	0.00
20,300.0	90.00	179.64	10,677.0	-9,683.7	-205.4	9,685.9	0.00	0.00	0.00
20,400.0	90.00	179.64	10,677.0	-9,783.7	-204.8	9,785.9	0.00	0.00	0.00
20,500.0	90.00	179.64	10,677.0	-9,883.7	-204.2	9,885.8	0.00	0.00	0.00
20,600.0	90.00	179.64	10,677.0	-9,983.7	-203.5	9,985.8	0.00	0.00	0.00
20,700.0	90.00	179.64	10,677.0	-10,083.7	-202.9	10,085.8	0.00	0.00	0.00
20,800.0	90.00	179.64	10,677.0	-10,183.7	-202.3	10,185.7	0.00	0.00	0.00
20,828.5	90.00	179.64	10,677.0	-10,212.2	-202.1	10,214.2	0.00	0.00	0.00
TD at 20828.5									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3179.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3179.0usft (P 84)
Well:	CABO WABO FED COM #804H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (CABO WABO FI - plan misses target center by 48.3usft at 10752.5usft MD (10633.4 TVD, -142.8 N, -262.6 E) - Circle (radius 50.0)	0.00	0.00	10,677.0	-122.4	-265.7	408,227.30	621,044.15	32° 7' 18.226 N	103° 56' 32.444 W
PBHL (CABO WABO FI - plan hits target center - Rectangle (sides W100.0 H10,064.0 D20.0)	0.00	359.64	10,677.0	-10,212.2	-202.1	398,137.43	621,107.70	32° 5' 38.371 N	103° 56' 32.131 W
LTP (CABO WABO FI - plan misses target center by 0.5usft at 20698.5usft MD (10677.0 TVD, -10082.2 N, -202.9 E) - Point	0.00	0.00	10,677.0	-10,082.2	-203.4	398,267.43	621,106.43	32° 5' 39.658 N	103° 56' 32.140 W

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5672	5672	3	-4	Start 4522.5 hold at 5671.8 MD
10,194	10,186	135	-241	Start DLS 12.00 TFO -119.57
10,958	10,677	-342	-264	Start 9870.0 hold at 10958.5 MD
20,828	10,677	-10,212	-202	TD at 20828.5

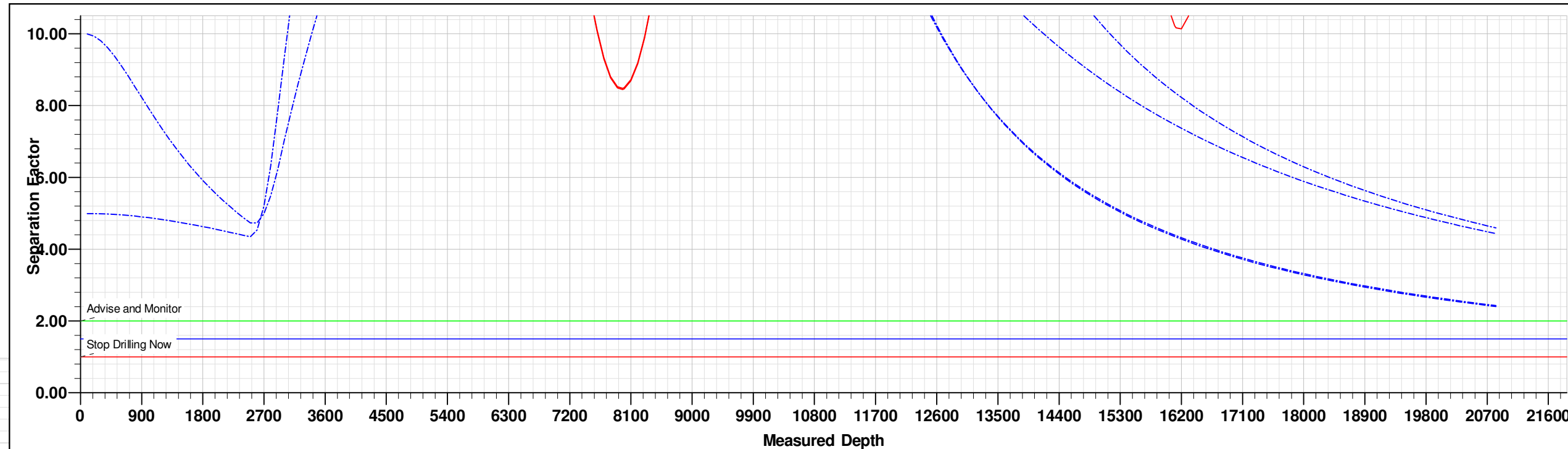
Checked By: _____ Approved By: _____ Date: _____



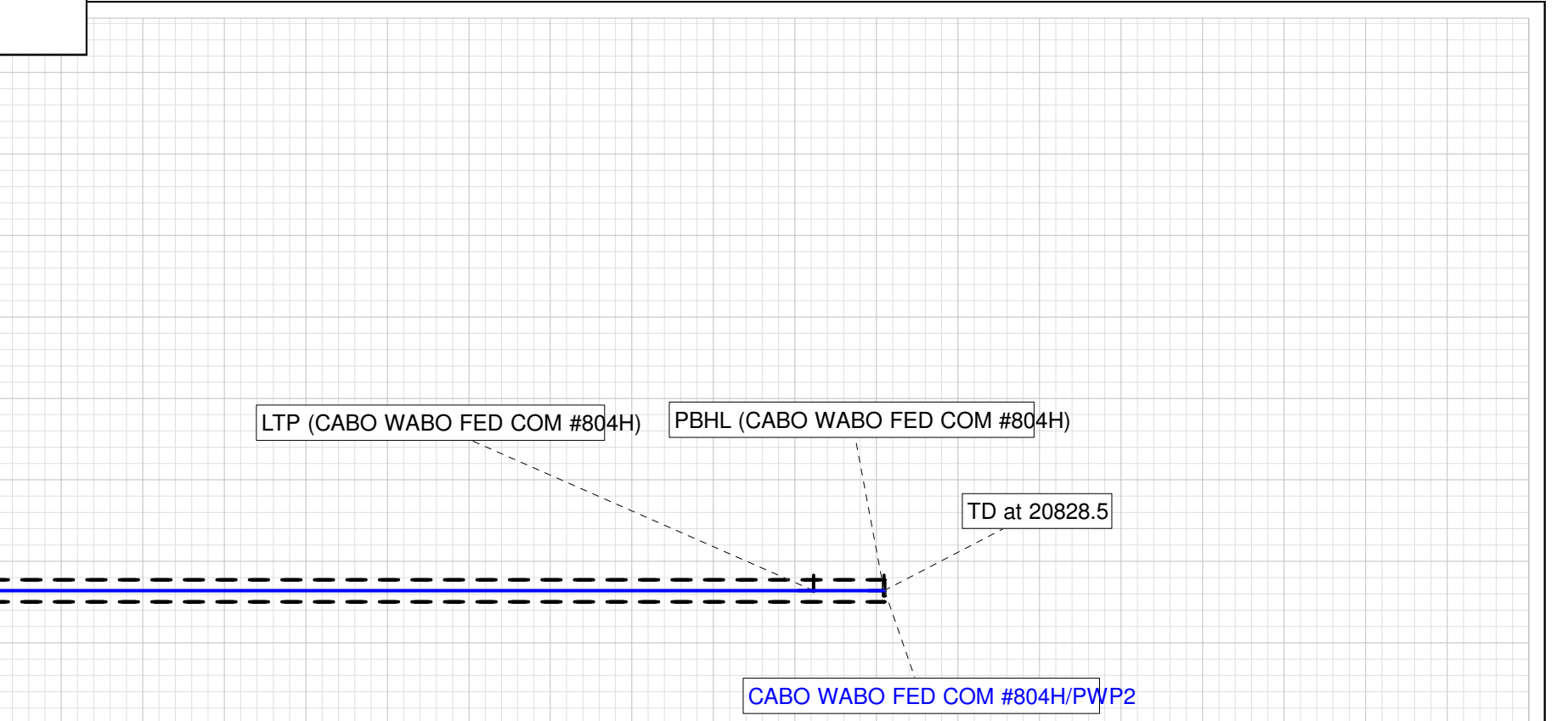
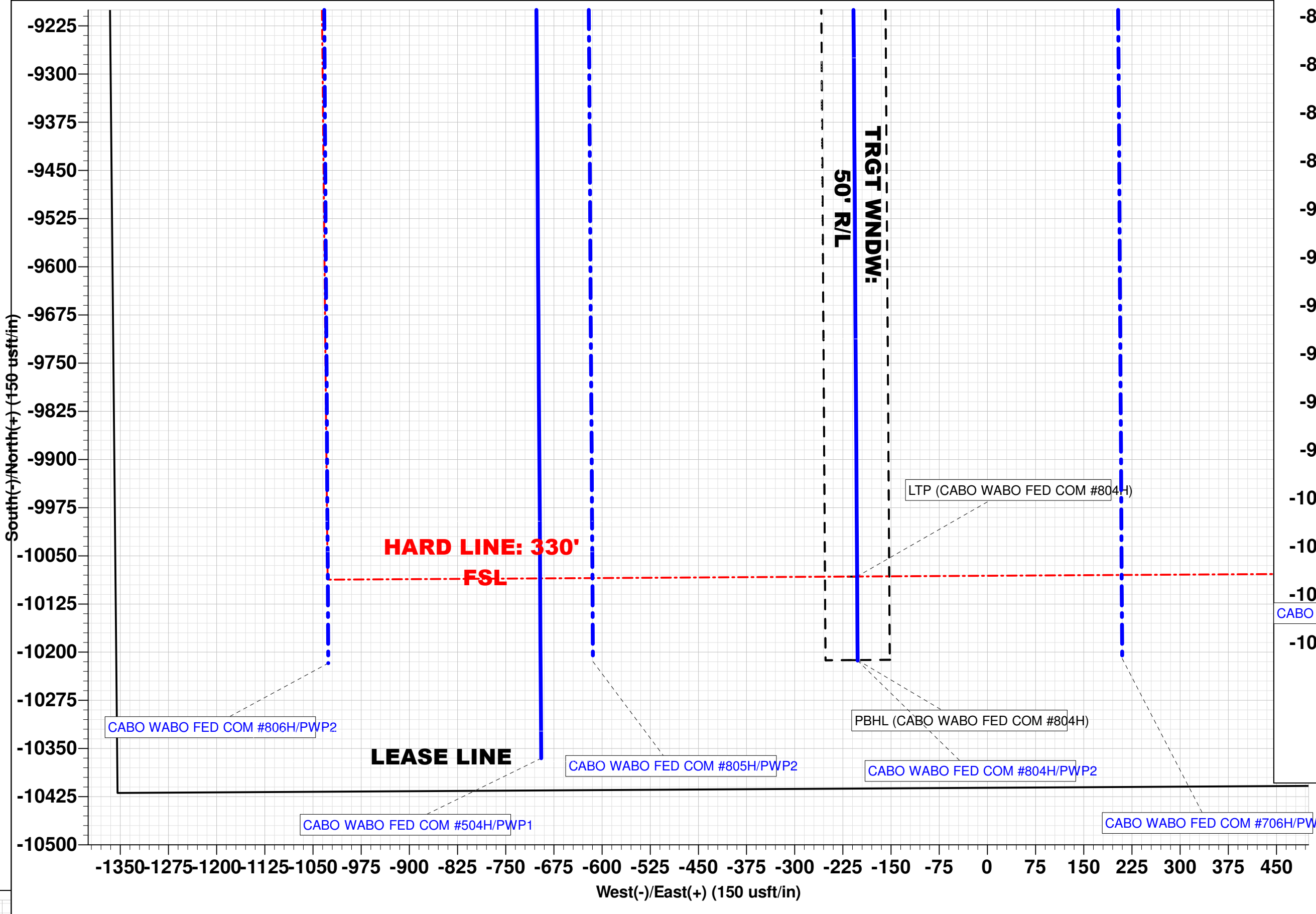
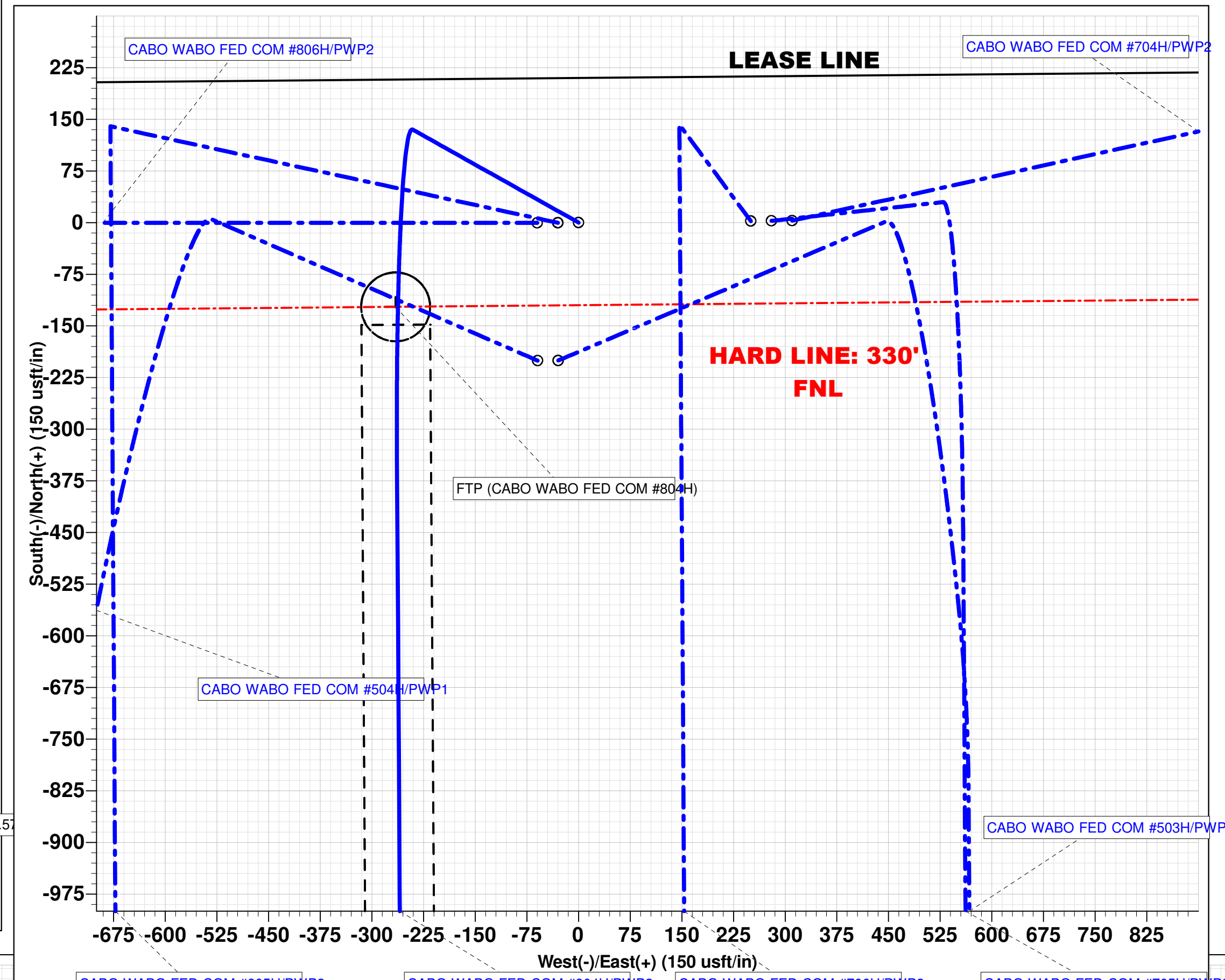
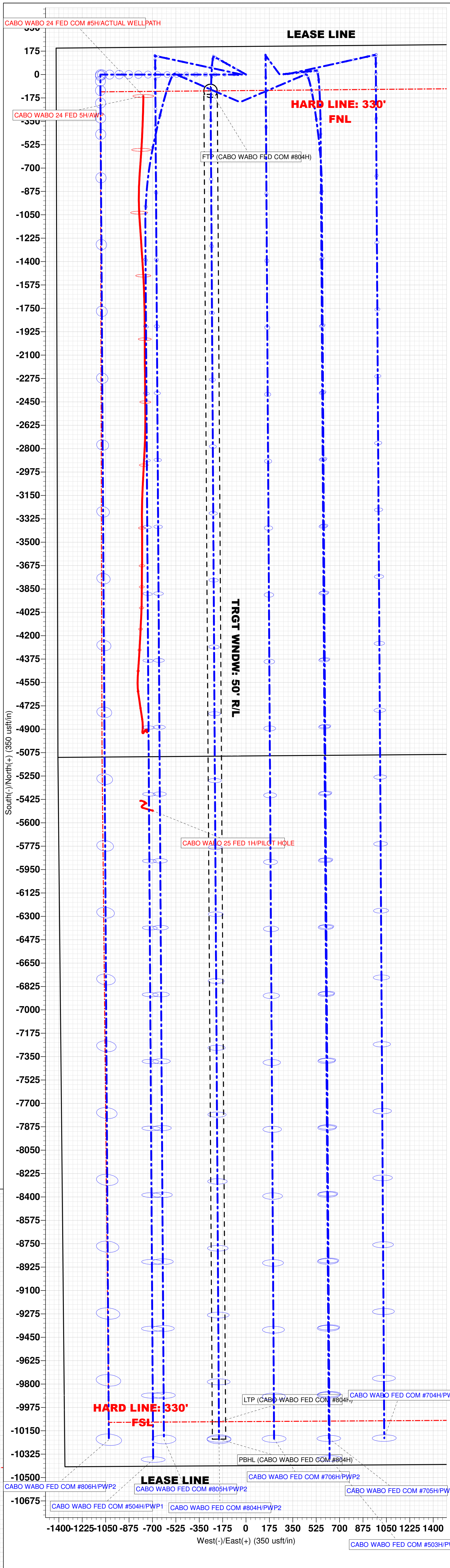
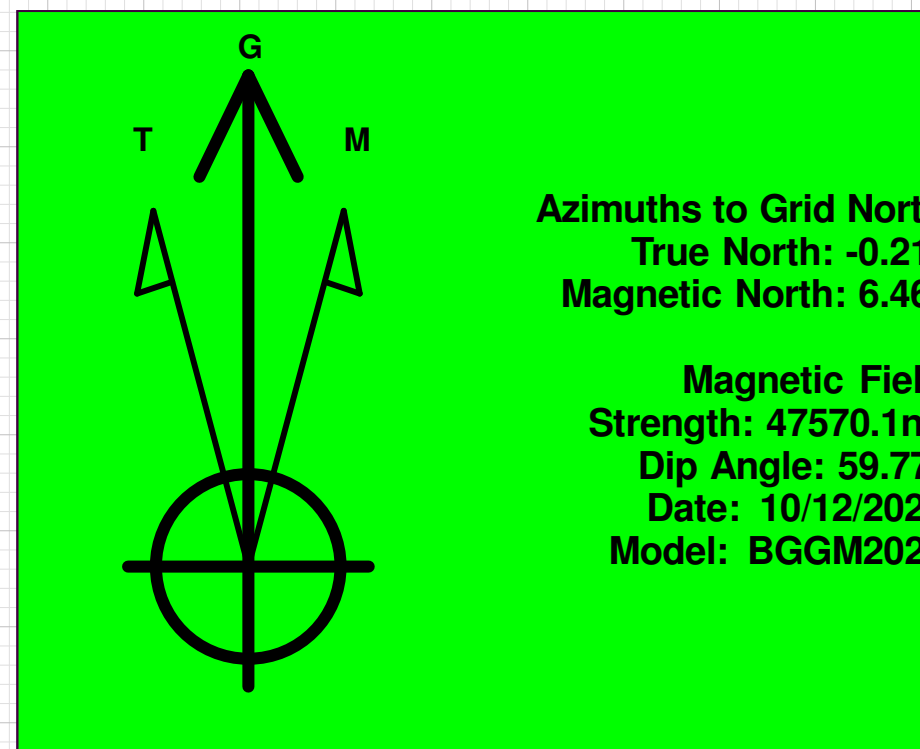
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #804H
Wellbore: OWB
Design: PWP2
GL: 3154.0
KB=25' @ 3179.0usft (P 84)

WELL DETAILS: CABO WABO FED COM #804H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408349.66	621309.82	32° 7' 19.428 N	103° 56' 29.349 W

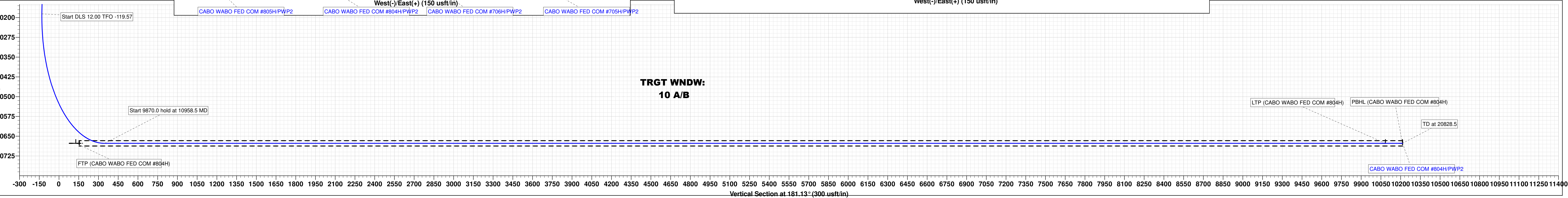
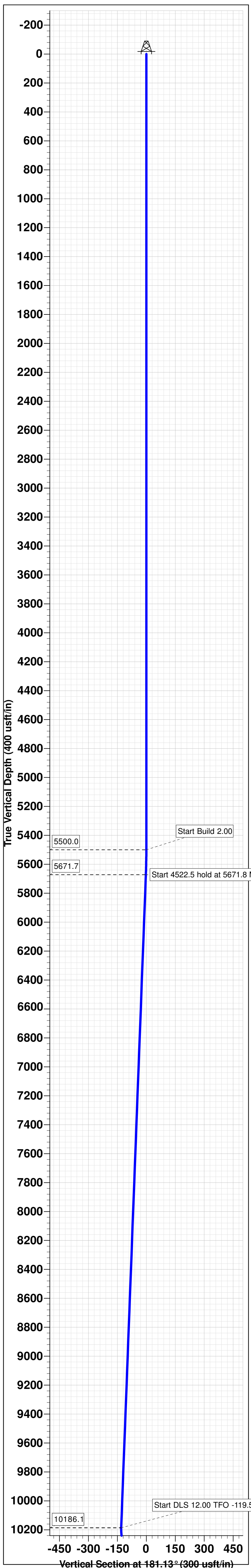
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (CABO WABO FED COM #804H)	10677.0	-122.4	-265.7	408227.30	621044.15	32° 7' 18.226 N
LTP (CABO WABO FED COM #804H)	10677.0	-10082.2	-203.4	398267.43	621106.43	32° 5' 39.658 N
PBHL (CABO WABO FED COM #804H)	10677.0	-10212.2	-202.1	398137.43	621107.70	32° 5' 38.371 N



CABO WABO FED COM #804H									
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 4522.5 hold at 5671.8 MD
5671.8	3.44	299.26	5671.7	2.5	-4.5	2.00	299.26	-2.4	Start DLS 12.00 TFO -119.57
10194.3	3.44	299.26	10186.1	135.0	-241.0	0.00	0.00	-130.2	Start 9870.0 hold at 10958.5 MD
10958.5	90.00	179.64	10677.0	-342.4	-263.7	12.00	-119.57	347.6	TD at 20828.5
20828.5	90.00	179.64	10677.0	-10212.2	-202.1	0.00	0.00	10214.2	



TRGT WNDW:
10 A/B



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

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

COMMENTS

Action 82896

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82896
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

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

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CONDITIONS

Action 82896

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CONDITIONS

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