

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 / 1390 FWL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1221868 / LONG: -103.9420666 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 330 FNL / 1310 FWL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1218558 / LONG: -103.9423255 (TVD: 11421 feet, MD: 11544 feet)

BHL: SWSW / 200 FSL / 1310 FWL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941174 / LONG: -103.9422375 (TVD: 11424 feet, MD: 21614 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 30-015-47753		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 805H	
7 OGRID No. 217955		8 Operator Name COG PRODUCTION LLC			9 Elevation 3153'	

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	1390'	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	742'	WEST	EDDY

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

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

CORNER DATA
NEW MEXICO EAST - NAD 83

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

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

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

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

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

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

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

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

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

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

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

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

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

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=662464.81
Y=408407.56
LAT.= 32.12218687° N
LONG.= 103.94206660° W
210' FNL, 1390' FWL
SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=661817.10
Y=408281.80
LAT.= 32.12184764° N
LONG.= 103.94416025° W
330' FNL, 742' FWL
SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=661879.65
Y=398322.95
LAT.= 32.09447119° N
LONG.= 103.94407437° W
330' FSL, 742' FWL
SECTION 25

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=661880.93
Y=398192.96
LAT.= 32.09411384° N
LONG.= 103.94407176° W
200' FSL, 742' 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
8/16/2021
Certificate Number

ConocoPhillips - Cabo Wabo Fed Com #805H

1. Geologic Formations

TVD of target	10,541' EOL	Pilot hole depth	NA
MD at TD:	20,730'	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	1.26	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.68	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,730	5.5"	20	P110	W441	1.62	2.18	3.04	2.48
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

ConocoPhillips - Cabo Wabo Fed Com #805H

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

ConocoPhillips - Cabo Wabo Fed Com #805H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld 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
	1050	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

ConocoPhillips - Cabo Wabo Fed Com #805H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

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 #805H

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
---	-----------------------------

6. Logging and Testing Procedures

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

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

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

Condition	Specify what type and where?
BH Pressure at deepest TVD	6855 psi at 10541' TVD
Abnormal Temperature	NO 160 Deg. F.

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

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #805H

OWB

PWP2

Anticollision Report

12 October, 2021

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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	10,103.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,103.0	20,729.8	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	7,900.0	12,448.0	327.4	287.6	8.219	SF
CABO WABO 24 FED 5H - OWB - AWP	7,989.0	12,448.0	315.0	278.4	8.606	CC, ES
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	16,024.1	10,150.0	318.2	250.8	4.721	CC, ES, SF
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -						Out of range
CABO WABO FED COM #704H - OWB - PWP2	2,413.8	2,421.8	340.0	333.1	49.686	CC
CABO WABO FED COM #704H - OWB - PWP2	2,500.0	2,507.2	340.0	333.1	49.266	ES, SF
CABO WABO FED COM #705H - OWB - PWP2	2,500.0	2,508.0	310.0	303.1	44.916	CC, ES
CABO WABO FED COM #705H - OWB - PWP2	2,600.0	2,608.0	311.7	304.7	44.709	SF
CABO WABO FED COM #706H - OWB - PWP2	2,512.4	2,520.6	280.0	273.1	40.521	CC, ES
CABO WABO FED COM #706H - OWB - PWP2	20,730.4	20,715.9	824.1	644.5	4.587	SF
CABO WABO FED COM #804H - OWB - PWP2	2,500.0	2,501.0	30.0	23.1	4.343	CC, ES
CABO WABO FED COM #804H - OWB - PWP2	20,730.4	20,828.4	433.6	255.2	2.430	SF
CABO WABO FED COM #806H - OWB - PWP2	2,566.5	2,564.9	30.0	17.1	2.324	CC
CABO WABO FED COM #806H - OWB - PWP2	2,800.0	2,795.9	30.3	16.6	2.212	ES
CABO WABO FED COM #806H - OWB - PWP2	2,850.0	2,845.3	30.6	16.7	2.201	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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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	20,730.4	7,701.0				Out of Range @TD
CABO WABO 25 FED 1H - PILOT HOLE - PILOT HOLE	20,730.4	10,150.0				Out of Range @TD
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -	20,730.4	10,400.0				Out of Range @TD
CABO WABO FED COM #704H - OWB - PWP2	20,730.4	20,747.2				Out of Range @TD
CABO WABO FED COM #705H - OWB - PWP2	20,730.4	20,724.6				Out of Range @TD
CABO WABO FED COM #706H - OWB - PWP2	20,730.4	20,715.9	824.1	644.5	4.587	SF
CABO WABO FED COM #804H - OWB - PWP2	20,730.4	20,828.4	433.6	255.2	2.430	SF
CABO WABO FED COM #806H - OWB - PWP2	20,730.4	20,744.6	429.1	246.8	2.354	

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													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.0	7,067.5	12,448.0	7,868.4	8.6	79.2	-82.71	-160.6	-737.8	943.6	891.8	51.75	18.233	
7,200.0	7,166.7	12,448.0	7,868.4	8.7	79.2	-82.71	-160.6	-737.8	850.0	798.2	51.77	16.418	
7,300.0	7,266.0	12,448.0	7,868.4	8.8	79.2	-82.71	-160.6	-737.8	758.0	706.3	51.68	14.667	
7,400.0	7,365.2	12,448.0	7,868.4	9.0	79.2	-82.71	-160.6	-737.8	668.3	616.9	51.40	13.002	
7,500.0	7,464.5	12,448.0	7,868.4	9.1	79.2	-82.71	-160.6	-737.8	582.0	531.2	50.81	11.455	
7,600.0	7,563.7	12,448.0	7,868.4	9.2	79.2	-82.71	-160.6	-737.8	500.9	451.2	49.69	10.080	
7,700.0	7,663.0	12,448.0	7,868.4	9.3	79.2	-82.71	-160.6	-737.8	427.7	380.1	47.67	8.972	
7,800.0	7,762.2	12,448.0	7,868.4	9.4	79.2	-82.71	-160.6	-737.8	367.5	323.2	44.34	8.289	
7,900.0	7,861.5	12,448.0	7,868.4	9.6	79.2	-82.71	-160.6	-737.8	327.4	287.6	39.83	8.219	SF
7,953.0	7,914.1	12,448.0	7,868.4	9.6	79.2	-82.71	-160.6	-737.8	317.0	279.4	37.62	8.428	
7,989.0	7,949.8	12,448.0	7,868.4	9.7	79.2	-82.67	-160.6	-737.8	315.0	278.4	36.60	8.606	CC, ES
8,000.0	7,960.8	12,448.0	7,868.4	9.7	79.2	-82.67	-160.6	-737.8	315.2	278.8	36.40	8.658	
8,100.0	8,060.4	12,448.0	7,868.4	9.8	79.2	-83.06	-160.6	-737.8	334.2	297.0	37.27	8.968	
8,200.0	8,160.2	12,448.0	7,868.4	9.9	79.2	-84.09	-160.6	-737.8	379.9	339.0	40.94	9.280	
8,303.0	8,263.3	12,448.0	7,868.4	10.0	79.2	-163.67	-160.6	-737.8	446.3	401.5	44.75	9.973	
8,400.0	8,360.2	12,448.0	7,868.4	10.1	79.2	-163.67	-160.6	-737.8	519.8	472.3	47.43	10.958	
8,500.0	8,460.2	12,448.0	7,868.4	10.2	79.2	-163.67	-160.6	-737.8	602.6	553.2	49.38	12.203	
8,600.0	8,560.2	12,448.0	7,868.4	10.3	79.2	-163.67	-160.6	-737.8	690.0	639.2	50.78	13.588	
8,700.0	8,660.2	12,448.0	7,868.4	10.4	79.2	-163.67	-160.6	-737.8	780.4	728.6	51.84	15.055	
8,800.0	8,760.2	12,448.0	7,868.4	10.5	79.2	-163.67	-160.6	-737.8	872.9	820.3	52.67	16.574	
8,900.0	8,860.2	12,448.0	7,868.4	10.6	79.2	-163.67	-160.6	-737.8	966.9	913.6	53.36	18.123	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)							
15,100.0	10,541.0	10,150.0	10,147.6	42.1	9.4	9.90	-5,508.5	-668.6			977.4	949.9	27.42	35.643	
15,200.0	10,541.0	10,150.0	10,147.6	43.0	9.4	9.90	-5,508.5	-668.6			883.4	854.6	28.80	30.671	
15,300.0	10,541.0	10,150.0	10,147.6	43.8	9.4	9.90	-5,508.5	-668.6			790.9	760.3	30.61	25.837	
15,400.0	10,541.0	10,150.0	10,147.6	44.7	9.4	9.90	-5,508.5	-668.6			700.5	667.5	33.02	21.216	
15,500.0	10,541.0	10,150.0	10,147.6	45.5	9.4	9.90	-5,508.5	-668.6			613.1	576.9	36.25	16.913	
15,600.0	10,541.0	10,150.0	10,147.6	46.3	9.4	9.90	-5,508.5	-668.6			530.2	489.6	40.61	13.056	
15,700.0	10,541.0	10,150.0	10,147.6	47.2	9.4	9.90	-5,508.5	-668.6			454.2	407.8	46.39	9.791	
15,800.0	10,541.0	10,150.0	10,147.6	48.0	9.4	9.90	-5,508.5	-668.6			389.2	335.5	53.62	7.258	
15,900.0	10,541.0	10,150.0	10,147.6	48.9	9.4	9.90	-5,508.5	-668.6			341.5	280.2	61.33	5.568	
16,000.0	10,541.0	10,150.0	10,147.6	49.7	9.4	9.90	-5,508.5	-668.6			319.1	252.3	66.79	4.777	
16,024.1	10,541.0	10,150.0	10,147.6	49.9	9.4	9.90	-5,508.5	-668.6			318.2	250.8	67.40	4.721	CC, ES, SF
16,100.0	10,541.0	10,150.0	10,147.6	50.6	9.4	9.90	-5,508.5	-668.6			327.1	259.9	67.15	4.871	
16,200.0	10,541.0	10,150.0	10,147.6	51.4	9.4	9.90	-5,508.5	-668.6			363.5	300.6	62.96	5.774	
16,300.0	10,541.0	10,150.0	10,147.6	52.2	9.4	9.90	-5,508.5	-668.6			421.1	364.0	57.15	7.369	
16,400.0	10,541.0	10,150.0	10,147.6	53.1	9.4	9.90	-5,508.5	-668.6			492.5	440.7	51.71	9.523	
16,500.0	10,541.0	10,150.0	10,147.6	53.9	9.4	9.90	-5,508.5	-668.6			572.4	525.2	47.28	12.106	
16,600.0	10,541.0	10,150.0	10,147.6	54.8	9.4	9.90	-5,508.5	-668.6			657.9	614.1	43.84	15.009	
16,700.0	10,541.0	10,150.0	10,147.6	55.6	9.4	9.90	-5,508.5	-668.6			747.0	705.8	41.18	18.140	
16,800.0	10,541.0	10,150.0	10,147.6	56.5	9.4	9.90	-5,508.5	-668.6			838.6	799.4	39.13	21.429	
16,900.0	10,541.0	10,150.0	10,147.6	57.3	9.4	9.90	-5,508.5	-668.6			931.9	894.3	37.54	24.824	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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	8.0	8.0	3.0	3.0	89.49		3.0	339.9	340.0				
100.0	100.0	108.0	108.0	3.0	3.0	89.49		3.0	339.9	340.0	334.0	6.00	56.658	
200.0	200.0	208.0	208.0	3.0	3.0	89.49		3.0	339.9	340.0	334.0	6.00	56.630	
300.0	300.0	308.0	308.0	3.0	3.0	89.49		3.0	339.9	340.0	334.0	6.01	56.571	
400.0	400.0	408.0	408.0	3.0	3.0	89.49		3.0	339.9	340.0	333.9	6.02	56.482	
500.0	500.0	508.0	508.0	3.1	3.1	89.49		3.0	339.9	340.0	333.9	6.03	56.364	
600.0	600.0	608.0	608.0	3.1	3.1	89.49		3.0	339.9	340.0	333.9	6.05	56.216	
700.0	700.0	708.0	708.0	3.1	3.1	89.49		3.0	339.9	340.0	333.9	6.07	56.039	
800.0	800.0	808.0	808.0	3.2	3.2	89.49		3.0	339.9	340.0	333.9	6.09	55.835	
900.0	900.0	908.0	908.0	3.2	3.2	89.49		3.0	339.9	340.0	333.8	6.11	55.604	
1,000.0	1,000.0	1,008.0	1,008.0	3.2	3.2	89.49		3.0	339.9	340.0	333.8	6.14	55.347	
1,100.0	1,100.0	1,108.0	1,108.0	3.3	3.3	89.49		3.0	339.9	340.0	333.8	6.17	55.066	
1,200.0	1,200.0	1,208.0	1,208.0	3.4	3.4	89.49		3.0	339.9	340.0	333.8	6.21	54.761	
1,300.0	1,300.0	1,308.0	1,308.0	3.4	3.4	89.49		3.0	339.9	340.0	333.7	6.25	54.434	
1,400.0	1,400.0	1,408.0	1,408.0	3.5	3.5	89.49		3.0	339.9	340.0	333.7	6.29	54.086	
1,500.0	1,500.0	1,508.0	1,508.0	3.5	3.6	89.49		3.0	339.9	340.0	333.6	6.33	53.718	
1,600.0	1,600.0	1,608.0	1,608.0	3.6	3.6	89.49		3.0	339.9	340.0	333.6	6.37	53.332	
1,700.0	1,700.0	1,708.0	1,708.0	3.7	3.7	89.49		3.0	339.9	340.0	333.5	6.42	52.930	
1,800.0	1,800.0	1,808.0	1,808.0	3.8	3.8	89.49		3.0	339.9	340.0	333.5	6.47	52.511	
1,900.0	1,900.0	1,908.0	1,908.0	3.9	3.9	89.49		3.0	339.9	340.0	333.4	6.53	52.079	
2,000.0	2,000.0	2,008.0	2,008.0	3.9	3.9	89.49		3.0	339.9	340.0	333.4	6.58	51.634	
2,100.0	2,100.0	2,108.0	2,108.0	4.0	4.0	89.49		3.0	339.9	340.0	333.3	6.64	51.178	
2,200.0	2,200.0	2,208.0	2,208.0	4.1	4.1	89.49		3.0	339.9	340.0	333.3	6.70	50.711	
2,300.0	2,300.0	2,308.0	2,308.0	4.2	4.2	89.49		3.0	339.9	340.0	333.2	6.77	50.236	
2,400.0	2,400.0	2,408.0	2,408.0	4.3	4.3	89.49		3.0	339.9	340.0	333.1	6.83	49.753	
2,413.8	2,413.8	2,421.8	2,421.8	4.3	4.3	89.49		3.0	339.9	340.0	333.1	6.84	49.686 CC	
2,500.0	2,500.0	2,507.2	2,507.2	4.4	4.4	89.49		3.1	340.0	340.0	333.1	6.90	49.266 ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	167.31		3.4	341.7	343.5	336.5	6.97	49.288	
2,700.0	2,699.8	2,685.6	2,685.5	4.5	4.5	167.29		4.3	345.8	353.4	346.3	7.04	50.200	
2,800.0	2,799.5	2,773.4	2,773.0	4.6	4.5	167.25		5.8	352.7	369.6	362.5	7.12	51.931	
2,850.0	2,849.1	2,818.9	2,818.3	4.6	4.6	167.23		6.8	357.2	380.1	372.9	7.16	53.075	
2,900.0	2,898.8	2,867.7	2,866.8	4.6	4.6	167.27		7.9	362.2	391.1	383.9	7.21	54.250	
3,000.0	2,998.0	2,965.2	2,963.8	4.7	4.6	167.34		10.1	372.1	413.1	405.8	7.31	56.511	
3,100.0	3,097.3	3,062.8	3,060.8	4.7	4.7	167.41		12.3	382.1	435.0	427.6	7.42	58.655	
3,200.0	3,196.5	3,160.3	3,157.8	4.8	4.8	167.47		14.5	392.1	457.0	449.5	7.53	60.682	
3,300.0	3,295.8	3,257.9	3,254.8	4.8	4.8	167.52		16.7	402.0	479.0	471.4	7.65	62.594	
3,400.0	3,395.0	3,355.5	3,351.9	4.9	4.9	167.57		18.9	412.0	501.0	493.2	7.78	64.395	
3,500.0	3,494.3	3,453.0	3,448.9	5.0	4.9	167.61		21.1	421.9	523.0	515.1	7.91	66.087	
3,600.0	3,593.5	3,550.6	3,545.9	5.1	5.0	167.65		23.2	431.9	545.0	536.9	8.05	67.674	
3,700.0	3,692.8	3,648.1	3,642.9	5.1	5.1	167.69		25.4	441.9	567.0	558.8	8.20	69.162	
3,800.0	3,792.0	3,745.7	3,739.9	5.2	5.2	167.72		27.6	451.8	589.0	580.6	8.35	70.554	
3,900.0	3,891.3	3,843.2	3,836.9	5.3	5.2	167.75		29.8	461.8	610.9	602.4	8.50	71.855	
4,000.0	3,990.6	3,940.8	3,934.0	5.4	5.3	167.78		32.0	471.7	632.9	624.3	8.66	73.070	
4,100.0	4,089.8	4,038.3	4,031.0	5.4	5.4	167.81		34.2	481.7	654.9	646.1	8.83	74.204	
4,200.0	4,189.1	4,135.9	4,128.0	5.5	5.5	167.84		36.4	491.7	676.9	667.9	8.99	75.261	
4,300.0	4,288.3	4,233.4	4,225.0	5.6	5.6	167.86		38.6	501.6	698.9	689.7	9.17	76.246	
4,400.0	4,387.6	4,331.0	4,322.0	5.7	5.6	167.89		40.7	511.6	720.9	711.5	9.34	77.163	
4,500.0	4,486.8	4,428.5	4,419.1	5.8	5.7	167.91		42.9	521.5	742.9	733.4	9.52	78.017	
4,600.0	4,586.1	4,526.1	4,516.1	5.9	5.8	167.93		45.1	531.5	764.9	755.2	9.71	78.811	
4,700.0	4,685.3	4,623.6	4,613.1	6.0	5.9	167.95		47.3	541.5	786.9	777.0	9.89	79.550	
4,800.0	4,784.6	4,721.2	4,710.1	6.1	6.0	167.96		49.5	551.4	808.8	798.8	10.08	80.236	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #704H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10158-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
4,900.0	4,883.8	4,818.7	4,807.1	6.2	6.1	167.98	51.7	561.4	830.8	820.6	10.27	80.875	
5,000.0	4,983.1	4,916.3	4,904.1	6.3	6.2	168.00	53.9	571.3	852.8	842.4	10.47	81.468	
5,100.0	5,082.4	5,013.8	5,001.2	6.4	6.3	168.01	56.1	581.3	874.8	864.1	10.67	82.019	
5,200.0	5,181.6	5,111.4	5,098.2	6.5	6.4	168.03	58.2	591.3	896.8	885.9	10.87	82.531	
5,300.0	5,280.9	5,208.9	5,195.2	6.6	6.5	168.04	60.4	601.2	918.8	907.7	11.07	83.006	
5,400.0	5,380.1	5,306.5	5,292.2	6.7	6.6	168.05	62.6	611.2	940.8	929.5	11.27	83.447	
5,500.0	5,479.4	5,404.0	5,389.2	6.8	6.7	168.07	64.8	621.1	962.8	951.3	11.48	83.856	
5,600.0	5,578.6	5,501.6	5,486.3	6.9	6.8	168.08	67.0	631.1	984.8	973.1	11.69	84.236	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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		
0.0	0.0	8.0	8.0	3.0	3.0	89.49	2.8	309.9	310.0						
100.0	100.0	108.0	108.0	3.0	3.0	89.49	2.8	309.9	310.0	304.0	6.00	51.658			
200.0	200.0	208.0	208.0	3.0	3.0	89.49	2.8	309.9	310.0	304.0	6.00	51.632			
300.0	300.0	308.0	308.0	3.0	3.0	89.49	2.8	309.9	310.0	304.0	6.01	51.579			
400.0	400.0	408.0	408.0	3.0	3.0	89.49	2.8	309.9	310.0	303.9	6.02	51.498			
500.0	500.0	508.0	508.0	3.1	3.1	89.49	2.8	309.9	310.0	303.9	6.03	51.390			
600.0	600.0	608.0	608.0	3.1	3.1	89.49	2.8	309.9	310.0	303.9	6.05	51.255			
700.0	700.0	708.0	708.0	3.1	3.1	89.49	2.8	309.9	310.0	303.9	6.07	51.094			
800.0	800.0	808.0	808.0	3.2	3.2	89.49	2.8	309.9	310.0	303.9	6.09	50.908			
900.0	900.0	908.0	908.0	3.2	3.2	89.49	2.8	309.9	310.0	303.8	6.11	50.697			
1,000.0	1,000.0	1,008.0	1,008.0	3.2	3.2	89.49	2.8	309.9	310.0	303.8	6.14	50.463			
1,100.0	1,100.0	1,108.0	1,108.0	3.3	3.3	89.49	2.8	309.9	310.0	303.8	6.17	50.206			
1,200.0	1,200.0	1,208.0	1,208.0	3.4	3.4	89.49	2.8	309.9	310.0	303.8	6.21	49.928			
1,300.0	1,300.0	1,308.0	1,308.0	3.4	3.4	89.49	2.8	309.9	310.0	303.7	6.25	49.630			
1,400.0	1,400.0	1,408.0	1,408.0	3.5	3.5	89.49	2.8	309.9	310.0	303.7	6.29	49.313			
1,500.0	1,500.0	1,508.0	1,508.0	3.5	3.6	89.49	2.8	309.9	310.0	303.6	6.33	48.978			
1,600.0	1,600.0	1,608.0	1,608.0	3.6	3.6	89.49	2.8	309.9	310.0	303.6	6.37	48.626			
1,700.0	1,700.0	1,708.0	1,708.0	3.7	3.7	89.49	2.8	309.9	310.0	303.5	6.42	48.259			
1,800.0	1,800.0	1,808.0	1,808.0	3.8	3.8	89.49	2.8	309.9	310.0	303.5	6.47	47.877			
1,900.0	1,900.0	1,908.0	1,908.0	3.9	3.9	89.49	2.8	309.9	310.0	303.4	6.53	47.483			
2,000.0	2,000.0	2,008.0	2,008.0	3.9	3.9	89.49	2.8	309.9	310.0	303.4	6.58	47.077			
2,100.0	2,100.0	2,108.0	2,108.0	4.0	4.0	89.49	2.8	309.9	310.0	303.3	6.64	46.661			
2,200.0	2,200.0	2,208.0	2,208.0	4.1	4.1	89.49	2.8	309.9	310.0	303.3	6.70	46.236			
2,300.0	2,300.0	2,308.0	2,308.0	4.2	4.2	89.49	2.8	309.9	310.0	303.2	6.77	45.803			
2,400.0	2,400.0	2,408.0	2,408.0	4.3	4.3	89.49	2.8	309.9	310.0	303.1	6.83	45.362			
2,500.0	2,500.0	2,508.0	2,508.0	4.4	4.4	89.49	2.8	309.9	310.0	303.1	6.90	44.916 CC, ES			
2,600.0	2,600.0	2,608.0	2,608.0	4.5	4.5	167.39	2.8	309.9	311.7	304.7	6.97	44.709 SF			
2,700.0	2,699.8	2,707.8	2,707.8	4.5	4.6	167.58	2.8	309.9	316.8	309.7	7.05	44.959			
2,800.0	2,799.5	2,807.5	2,807.5	4.6	4.7	167.87	2.8	309.9	325.3	318.2	7.13	45.644			
2,850.0	2,849.1	2,857.1	2,857.1	4.6	4.8	168.05	2.8	309.9	330.8	323.7	7.17	46.144			
2,900.0	2,898.8	2,906.8	2,906.8	4.6	4.8	168.27	2.8	309.9	336.8	329.6	7.21	46.689			
3,000.0	2,998.0	3,006.0	3,006.0	4.7	4.9	168.68	2.8	309.9	348.7	341.4	7.31	47.730			
3,100.0	3,097.3	3,105.3	3,105.3	4.7	5.0	169.06	2.8	309.9	360.7	353.3	7.41	48.710			
3,200.0	3,196.5	3,204.5	3,204.5	4.8	5.1	169.41	2.8	309.9	372.7	365.2	7.51	49.631			
3,300.0	3,295.8	3,303.8	3,303.8	4.8	5.2	169.74	2.8	309.9	384.7	377.0	7.62	50.496			
3,400.0	3,395.0	3,403.0	3,403.0	4.9	5.3	170.06	2.8	309.9	396.7	388.9	7.73	51.307			
3,500.0	3,494.3	3,502.3	3,502.3	5.0	5.4	170.35	2.8	309.9	408.7	400.8	7.85	52.067			
3,600.0	3,593.5	3,601.5	3,601.5	5.1	5.5	170.63	2.8	309.9	420.7	412.7	7.97	52.778			
3,700.0	3,692.8	3,700.8	3,700.8	5.1	5.7	170.89	2.8	309.9	432.7	424.6	8.10	53.443			
3,800.0	3,792.0	3,800.0	3,800.0	5.2	5.8	171.14	2.8	309.9	444.8	436.5	8.23	54.065			
3,900.0	3,891.3	3,899.3	3,899.3	5.3	5.9	171.38	2.8	309.9	456.8	448.5	8.36	54.645			
4,000.0	3,990.6	3,998.6	3,998.6	5.4	6.0	171.60	2.8	309.9	468.9	460.4	8.50	55.188			
4,100.0	4,089.8	4,097.8	4,097.8	5.4	6.1	171.81	2.8	309.9	480.9	472.3	8.64	55.695			
4,200.0	4,189.1	4,197.1	4,197.1	5.5	6.2	172.01	2.8	309.9	493.0	484.2	8.78	56.168			
4,300.0	4,288.3	4,296.3	4,296.3	5.6	6.3	172.21	2.8	309.9	505.1	496.2	8.92	56.610			
4,400.0	4,387.6	4,395.6	4,395.6	5.7	6.5	172.39	2.8	309.9	517.2	508.1	9.07	57.022			
4,500.0	4,486.8	4,494.8	4,494.8	5.8	6.6	172.56	2.8	309.9	529.2	520.0	9.22	57.407			
4,600.0	4,586.1	4,594.1	4,594.1	5.9	6.7	172.73	2.8	309.9	541.3	532.0	9.37	57.766			
4,700.0	4,685.3	4,693.3	4,693.3	6.0	6.8	172.89	2.8	309.9	553.4	543.9	9.53	58.101			
4,800.0	4,784.6	4,792.6	4,792.6	6.1	6.9	173.04	2.8	309.9	565.5	555.8	9.68	58.414			
4,900.0	4,883.8	4,891.8	4,891.8	6.2	7.0	173.19	2.8	309.9	577.6	567.8	9.84	58.706			

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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:		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	
5,000.0	4,983.1	4,991.1	4,991.1	6.3	7.2	173.33	2.8	309.9	589.7	579.7	10.00	58.979	
5,100.0	5,082.4	5,090.4	5,090.4	6.4	7.3	173.47	2.8	309.9	601.8	591.7	10.16	59.234	
5,200.0	5,181.6	5,189.6	5,189.6	6.5	7.4	173.59	2.8	309.9	613.9	603.6	10.32	59.471	
5,300.0	5,280.9	5,288.9	5,288.9	6.6	7.5	173.72	2.8	309.9	626.1	615.6	10.49	59.693	
5,400.0	5,380.1	5,388.1	5,388.1	6.7	7.6	173.84	2.8	309.9	638.2	627.5	10.65	59.901	
5,500.0	5,479.4	5,487.4	5,487.4	6.8	7.8	173.95	2.8	309.9	650.3	639.5	10.82	60.094	
5,600.0	5,578.6	5,570.7	5,570.7	6.9	7.8	174.03	2.9	310.8	663.4	652.5	10.99	60.377	
5,700.0	5,677.9	5,655.2	5,655.1	7.0	7.9	174.06	3.2	314.1	679.3	668.2	11.15	60.910	
5,800.0	5,777.1	5,748.5	5,748.3	7.1	7.9	174.07	3.8	319.2	696.7	685.3	11.31	61.574	
5,900.0	5,876.4	5,847.0	5,846.7	7.2	8.0	174.07	4.3	324.5	714.0	702.5	11.47	62.236	
6,000.0	5,975.7	5,945.5	5,945.0	7.3	8.0	174.08	4.9	329.8	731.4	719.7	11.63	62.862	
6,100.0	6,074.9	6,044.0	6,043.3	7.5	8.1	174.09	5.5	335.1	748.7	736.9	11.80	63.452	
6,200.0	6,174.2	6,142.5	6,141.7	7.6	8.1	174.09	6.1	340.4	766.1	754.1	11.97	64.009	
6,300.0	6,273.4	6,240.9	6,240.0	7.7	8.2	174.10	6.7	345.7	783.4	771.3	12.14	64.534	
6,400.0	6,372.7	6,339.4	6,338.4	7.8	8.2	174.10	7.2	351.0	800.8	788.5	12.31	65.029	
6,500.0	6,471.9	6,437.9	6,436.7	7.9	8.3	174.11	7.8	356.3	818.1	805.6	12.49	65.494	
6,600.0	6,571.2	6,536.4	6,535.0	8.0	8.3	174.11	8.4	361.6	835.5	822.8	12.67	65.932	
6,700.0	6,670.4	6,634.9	6,633.4	8.1	8.4	174.12	9.0	366.9	852.8	840.0	12.85	66.343	
6,800.0	6,769.7	6,733.4	6,731.7	8.3	8.5	174.12	9.6	372.2	870.2	857.1	13.04	66.729	
6,900.0	6,868.9	6,831.8	6,830.0	8.4	8.5	174.13	10.1	377.5	887.5	874.3	13.23	67.092	
7,000.0	6,968.2	6,930.3	6,928.4	8.5	8.6	174.13	10.7	382.8	904.9	891.5	13.42	67.433	
7,100.0	7,067.5	7,028.8	7,026.7	8.6	8.7	174.14	11.3	388.1	922.2	908.6	13.61	67.752	
7,200.0	7,166.7	7,127.3	7,125.1	8.7	8.7	174.14	11.9	393.4	939.6	925.8	13.81	68.051	
7,300.0	7,266.0	7,225.8	7,223.4	8.8	8.8	174.14	12.5	398.7	956.9	942.9	14.00	68.331	
7,400.0	7,365.2	7,324.3	7,321.7	9.0	8.9	174.15	13.0	404.0	974.3	960.1	14.20	68.593	
7,500.0	7,464.5	7,422.7	7,420.1	9.1	8.9	174.15	13.6	409.3	991.7	977.2	14.41	68.838	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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: Reference		0-Standard Keeper 104, 10164-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	89.48	2.5	280.0	280.0						
100.0	100.0	107.0	107.0	3.0	3.0	89.48	2.5	280.0	280.0	274.0	6.00	46.665			
200.0	200.0	207.0	207.0	3.0	3.0	89.48	2.5	280.0	280.0	274.0	6.00	46.642			
300.0	300.0	307.0	307.0	3.0	3.0	89.48	2.5	280.0	280.0	274.0	6.01	46.594			
400.0	400.0	407.0	407.0	3.0	3.0	89.48	2.5	280.0	280.0	274.0	6.02	46.521			
500.0	500.0	507.0	507.0	3.1	3.1	89.48	2.5	280.0	280.0	274.0	6.03	46.423			
600.0	600.0	607.0	607.0	3.1	3.1	89.48	2.5	280.0	280.0	274.0	6.05	46.301			
700.0	700.0	707.0	707.0	3.1	3.1	89.48	2.5	280.0	280.0	273.9	6.07	46.156			
800.0	800.0	807.0	807.0	3.2	3.2	89.48	2.5	280.0	280.0	273.9	6.09	45.988			
900.0	900.0	907.0	907.0	3.2	3.2	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	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	89.48	2.5	280.0	280.0	273.2	6.83	40.979			
2,500.0	2,500.0	2,507.4	2,507.4	4.4	4.4	89.48	2.5	280.0	280.0	273.1	6.90	40.574			
2,512.4	2,512.4	2,520.6	2,520.6	4.4	4.4	167.31	2.6	279.9	280.0	273.1	6.91	40.521	CC, ES		
2,600.0	2,600.0	2,613.5	2,613.5	4.5	4.5	167.03	4.3	278.7	280.5	273.5	6.97	40.224			
2,700.0	2,699.8	2,718.3	2,718.1	4.5	4.6	166.28	9.2	275.1	282.2	275.2	7.05	40.052			
2,800.0	2,799.5	2,818.2	2,817.7	4.6	4.7	165.53	14.8	270.9	286.7	279.6	7.12	40.252			
2,850.0	2,849.1	2,868.0	2,867.5	4.6	4.7	165.23	17.5	268.9	290.2	283.1	7.16	40.521			
2,900.0	2,898.8	2,917.9	2,917.2	4.6	4.8	164.96	20.3	266.8	294.2	287.0	7.20	40.841			
3,000.0	2,998.0	3,017.5	3,016.6	4.7	4.8	164.46	25.9	262.7	302.1	294.8	7.29	41.454			
3,100.0	3,097.3	3,117.2	3,116.0	4.7	4.9	163.99	31.5	258.5	310.1	302.7	7.38	42.033			
3,200.0	3,196.5	3,216.8	3,215.4	4.8	5.0	163.54	37.1	254.4	318.0	310.6	7.47	42.579			
3,300.0	3,295.8	3,316.5	3,314.8	4.8	5.1	163.11	42.7	250.2	326.0	318.5	7.57	43.090			
3,400.0	3,395.0	3,416.1	3,414.2	4.9	5.2	162.70	48.3	246.1	334.0	326.4	7.67	43.570			
3,500.0	3,494.3	3,515.8	3,513.6	5.0	5.3	162.31	53.9	242.0	342.1	334.3	7.77	44.017			
3,600.0	3,593.5	3,615.4	3,613.0	5.1	5.4	161.94	59.4	237.8	350.1	342.2	7.88	44.434			
3,700.0	3,692.8	3,715.1	3,712.4	5.1	5.5	161.58	65.0	233.7	358.1	350.2	7.99	44.822			
3,800.0	3,792.0	3,814.7	3,811.8	5.2	5.6	161.24	70.6	229.6	366.2	358.1	8.11	45.181			
3,900.0	3,891.3	3,914.4	3,911.2	5.3	5.7	160.92	76.2	225.4	374.3	366.1	8.22	45.512			
4,000.0	3,990.6	4,014.0	4,010.7	5.4	5.8	160.61	81.8	221.3	382.4	374.0	8.35	45.817			
4,100.0	4,089.8	4,113.7	4,110.1	5.4	5.9	160.31	87.4	217.1	390.5	382.0	8.47	46.098			
4,200.0	4,189.1	4,213.3	4,209.5	5.5	6.0	160.02	93.0	213.0	398.6	390.0	8.60	46.354			
4,300.0	4,288.3	4,313.0	4,308.9	5.6	6.1	159.75	98.5	208.9	406.7	398.0	8.73	46.588			
4,400.0	4,387.6	4,412.6	4,408.3	5.7	6.2	159.48	104.1	204.7	414.8	406.0	8.86	46.800			
4,500.0	4,486.8	4,512.3	4,507.7	5.8	6.4	159.23	109.7	200.6	423.0	414.0	9.00	46.992			
4,600.0	4,586.1	4,611.9	4,607.1	5.9	6.5	158.98	115.3	196.4	431.1	422.0	9.14	47.165			
4,700.0	4,685.3	4,711.6	4,706.5	6.0	6.6	158.75	120.9	192.3	439.3	430.0	9.28	47.320			
4,800.0	4,784.6	4,811.2	4,805.9	6.1	6.7	158.52	126.5	188.2	447.4	438.0	9.43	47.458			

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
4,900.0	4,883.8	4,910.4	4,904.9	6.2	6.8	158.31		132.0	184.1	455.6	446.0	9.57	47.582	
5,000.0	4,983.1	5,006.5	5,000.8	6.3	6.9	158.22		136.6	180.7	464.2	454.5	9.72	47.736	
5,100.0	5,082.4	5,102.5	5,096.7	6.4	7.0	158.30		139.9	178.3	473.6	463.8	9.88	47.932	
5,200.0	5,181.6	5,200.0	5,194.2	6.5	7.1	158.56		141.9	176.8	483.8	473.8	10.05	48.157	
5,300.0	5,280.9	5,293.9	5,288.0	6.6	7.2	158.96		142.5	176.3	494.8	484.6	10.22	48.428	
5,400.0	5,380.1	5,393.0	5,387.1	6.7	7.3	159.46		142.5	176.3	506.2	495.8	10.38	48.744	
5,500.0	5,479.4	5,492.2	5,486.4	6.8	7.5	159.93		142.5	176.3	517.6	507.1	10.55	49.045	
5,600.0	5,578.6	5,591.5	5,585.6	6.9	7.6	160.38		142.5	176.3	529.1	518.4	10.73	49.332	
5,700.0	5,677.9	5,690.7	5,684.9	7.0	7.7	160.82		142.5	176.3	540.6	529.7	10.90	49.605	
5,800.0	5,777.1	5,790.0	5,784.1	7.1	7.8	161.23		142.5	176.3	552.1	541.1	11.07	49.865	
5,900.0	5,876.4	5,889.2	5,883.4	7.2	7.9	161.63		142.5	176.3	563.7	552.4	11.25	50.114	
6,000.0	5,975.7	5,988.5	5,982.7	7.3	8.0	162.01		142.5	176.3	575.3	563.9	11.43	50.351	
6,100.0	6,074.9	6,087.7	6,081.9	7.5	8.2	162.38		142.5	176.3	586.9	575.3	11.60	50.577	
6,200.0	6,174.2	6,187.0	6,181.2	7.6	8.3	162.73		142.5	176.3	598.5	586.7	11.78	50.793	
6,300.0	6,273.4	6,286.3	6,280.4	7.7	8.4	163.07		142.5	176.3	610.2	598.2	11.96	51.001	
6,400.0	6,372.7	6,385.5	6,379.7	7.8	8.5	163.40		142.5	176.3	621.9	609.7	12.15	51.199	
6,500.0	6,471.9	6,484.8	6,478.9	7.9	8.6	163.71		142.5	176.3	633.5	621.2	12.33	51.389	
6,600.0	6,571.2	6,584.0	6,578.2	8.0	8.7	164.02		142.5	176.3	645.3	632.8	12.51	51.571	
6,700.0	6,670.4	6,683.3	6,677.4	8.1	8.9	164.31		142.5	176.3	657.0	644.3	12.70	51.746	
6,800.0	6,769.7	6,782.5	6,776.7	8.3	9.0	164.59		142.5	176.3	668.7	655.9	12.88	51.914	
6,900.0	6,868.9	6,881.8	6,875.9	8.4	9.1	164.86		142.5	176.3	680.5	667.4	13.07	52.076	
7,000.0	6,968.2	6,981.0	6,975.2	8.5	9.2	165.13		142.5	176.3	692.3	679.0	13.25	52.231	
7,100.0	7,067.5	7,080.3	7,074.5	8.6	9.4	165.38		142.5	176.3	704.1	690.6	13.44	52.380	
7,200.0	7,166.7	7,179.5	7,173.7	8.7	9.5	165.63		142.5	176.3	715.9	702.2	13.63	52.524	
7,300.0	7,266.0	7,278.8	7,273.0	8.8	9.6	165.87		142.5	176.3	727.7	713.9	13.82	52.663	
7,400.0	7,365.2	7,378.1	7,372.2	9.0	9.7	166.10		142.5	176.3	739.5	725.5	14.01	52.796	
7,500.0	7,464.5	7,477.3	7,471.5	9.1	9.8	166.32		142.5	176.3	751.4	737.2	14.20	52.925	
7,600.0	7,563.7	7,576.6	7,570.7	9.2	10.0	166.54		142.5	176.3	763.2	748.8	14.39	53.049	
7,700.0	7,663.0	7,675.8	7,670.0	9.3	10.1	166.75		142.5	176.3	775.1	760.5	14.58	53.168	
7,800.0	7,762.2	7,775.1	7,769.2	9.4	10.2	166.95		142.5	176.3	786.9	772.2	14.77	53.284	
7,900.0	7,861.5	7,874.3	7,868.5	9.6	10.3	167.15		142.5	176.3	798.8	783.9	14.96	53.395	
7,953.0	7,914.1	7,927.0	7,921.1	9.6	10.4	167.25		142.5	176.3	805.1	790.1	15.06	53.453	
8,000.0	7,960.8	7,973.6	7,967.8	9.7	10.5	167.35		142.5	176.3	810.3	795.2	15.15	53.481	
8,100.0	8,060.4	8,073.2	8,067.4	9.8	10.6	167.53		142.5	176.3	819.0	803.6	15.34	53.589	
8,200.0	8,160.2	8,173.1	8,167.2	9.9	10.7	167.63		142.5	176.3	824.2	808.7	15.52	53.699	
8,303.0	8,263.3	8,276.1	8,270.3	10.0	10.8	89.83		142.5	176.3	826.0	810.3	15.67	52.721	
8,400.0	8,360.2	8,373.1	8,367.2	10.1	11.0	89.83		142.5	176.3	826.0	810.2	15.77	52.384	
8,500.0	8,460.2	8,473.1	8,467.2	10.2	11.1	89.83		142.5	176.3	826.0	810.1	15.87	52.040	
8,600.0	8,560.2	8,573.1	8,567.2	10.3	11.2	89.83		142.5	176.3	826.0	810.0	15.98	51.698	
8,700.0	8,660.2	8,673.1	8,667.2	10.4	11.3	89.83		142.5	176.3	826.0	809.9	16.08	51.359	
8,800.0	8,760.2	8,773.1	8,767.2	10.5	11.5	89.83		142.5	176.3	826.0	809.8	16.19	51.023	
8,900.0	8,860.2	8,873.1	8,867.2	10.6	11.6	89.83		142.5	176.3	826.0	809.7	16.29	50.690	
9,000.0	8,960.2	8,973.1	8,967.2	10.7	11.7	89.83		142.5	176.3	826.0	809.6	16.40	50.360	
9,100.0	9,060.2	9,073.1	9,067.2	10.8	11.8	89.83		142.5	176.3	826.0	809.5	16.51	50.033	
9,200.0	9,160.2	9,173.1	9,167.2	10.9	12.0	89.83		142.5	176.3	826.0	809.4	16.62	49.708	
9,300.0	9,260.2	9,273.1	9,267.2	11.0	12.1	89.83		142.5	176.3	826.0	809.3	16.72	49.387	
9,400.0	9,360.2	9,373.1	9,367.2	11.1	12.2	89.83		142.5	176.3	826.0	809.2	16.83	49.068	
9,500.0	9,460.2	9,473.1	9,467.2	11.2	12.3	89.83		142.5	176.3	826.0	809.0	16.94	48.752	
9,600.0	9,560.2	9,573.1	9,567.2	11.3	12.5	89.83		142.5	176.3	826.0	808.9	17.05	48.439	
9,700.0	9,660.2	9,673.1	9,667.2	11.4	12.6	89.83		142.5	176.3	826.0	808.8	17.16	48.129	
9,800.0	9,760.2	9,773.1	9,767.2	11.5	12.7	89.83		142.5	176.3	826.0	808.7	17.27	47.822	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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)				
9,900.0	9,860.2	9,873.1	9,867.2	11.6	12.8	89.83	142.5	176.3	826.0	808.6	17.38	47.517		
10,000.0	9,960.2	9,973.1	9,967.2	11.7	13.0	89.83	142.5	176.3	826.0	808.5	17.49	47.216		
10,103.3	10,063.5	10,076.3	10,070.5	11.8	13.1	89.83	142.5	176.3	826.0	808.4	17.59	46.956		
10,125.0	10,085.2	10,098.0	10,092.2	11.8	13.1	-89.84	142.5	176.3	826.0	808.4	17.60	46.920		
10,150.0	10,110.1	10,122.9	10,117.1	11.8	13.1	-89.90	141.5	176.3	826.0	808.4	17.62	46.882		
10,175.0	10,135.0	10,147.9	10,141.9	11.8	13.1	-89.95	139.2	176.3	826.0	808.3	17.63	46.842		
10,200.0	10,159.6	10,172.8	10,166.6	11.8	13.7	-90.01	135.6	176.3	826.0	808.3	17.64	46.818		
10,225.0	10,183.9	10,197.9	10,191.1	11.8	13.8	-90.06	130.7	176.4	826.0	808.3	17.65	46.807		
10,233.4	10,192.1	10,206.3	10,199.4	11.8	13.8	-90.08	128.7	176.4	826.0	808.3	17.65	46.802		
10,250.0	10,207.9	10,222.9	10,215.4	11.8	13.8	-90.12	124.5	176.4	826.0	808.3	17.65	46.791		
10,275.0	10,231.5	10,248.0	10,239.4	11.8	13.8	-90.17	117.0	176.4	826.0	808.3	17.66	46.767		
10,300.0	10,254.7	10,273.2	10,263.0	11.9	13.8	-90.23	108.3	176.5	826.0	808.3	17.67	46.733		
10,325.0	10,277.3	10,298.4	10,286.1	11.9	13.8	-90.28	98.3	176.6	826.0	808.3	17.69	46.688		
10,350.0	10,299.4	10,323.6	10,308.7	11.9	13.8	-90.34	87.1	176.6	826.0	808.3	17.71	46.631		
10,375.0	10,320.8	10,348.9	10,330.7	11.9	13.9	-90.39	74.7	176.7	826.0	808.2	17.74	46.560		
10,400.0	10,341.5	10,374.2	10,352.1	11.9	13.9	-90.44	61.2	176.8	826.0	808.2	17.77	46.474		
10,425.0	10,361.4	10,399.5	10,372.7	12.0	13.9	-90.49	46.5	176.9	826.0	808.2	17.81	46.371		
10,450.0	10,380.5	10,424.9	10,392.6	12.0	13.9	-90.54	30.6	177.0	826.0	808.1	17.86	46.250		
10,475.0	10,398.8	10,450.4	10,411.6	12.0	14.0	-90.59	13.8	177.1	826.0	808.1	17.91	46.109		
10,500.0	10,416.1	10,475.8	10,429.8	12.0	14.0	-90.63	-4.1	177.2	826.0	808.0	17.98	45.947		
10,525.0	10,432.5	10,501.3	10,446.9	12.1	14.0	-90.67	-22.9	177.3	826.0	808.0	18.05	45.763		
10,550.0	10,447.8	10,526.9	10,463.1	12.1	14.1	-90.72	-42.7	177.4	826.0	807.9	18.13	45.557		
10,575.0	10,462.1	10,552.4	10,478.2	12.1	14.1	-90.76	-63.3	177.5	826.0	807.8	18.22	45.328		
10,600.0	10,475.3	10,578.0	10,492.2	12.2	14.1	-90.80	-84.8	177.7	826.0	807.7	18.32	45.076		
10,625.0	10,487.4	10,603.7	10,505.0	12.2	14.2	-90.83	-107.0	177.8	826.0	807.6	18.44	44.802		
10,650.0	10,498.3	10,629.3	10,516.7	12.2	14.2	-90.86	-129.8	178.0	826.0	807.5	18.56	44.506		
10,675.0	10,508.1	10,655.0	10,527.1	12.2	14.2	-90.90	-153.3	178.1	826.0	807.3	18.69	44.190		
10,700.0	10,516.6	10,680.7	10,536.2	12.3	14.3	-90.92	-177.3	178.2	826.0	807.2	18.84	43.855		
10,725.0	10,523.8	10,706.4	10,544.0	12.3	14.3	-90.95	-201.8	178.4	826.0	807.0	18.99	43.503		
10,750.0	10,529.8	10,732.2	10,550.5	12.3	14.3	-90.97	-226.7	178.5	826.0	806.9	19.15	43.136		
10,775.0	10,534.6	10,757.9	10,555.7	12.4	14.3	-90.99	-252.0	178.7	826.0	806.7	19.32	42.757		
10,800.0	10,538.0	10,783.7	10,559.5	12.4	14.4	-91.01	-277.5	178.9	826.0	806.5	19.50	42.367		
10,825.0	10,540.1	10,809.5	10,561.9	12.4	14.4	-91.03	-303.1	179.0	826.0	806.3	19.68	41.971		
10,850.0	10,541.0	10,835.3	10,562.9	12.5	14.4	-91.04	-328.9	179.2	826.0	806.2	19.87	41.571		
10,853.3	10,541.0	10,838.7	10,563.0	12.5	14.4	-91.04	-332.3	179.2	826.0	806.1	19.90	41.518		
10,900.0	10,541.0	10,885.5	10,563.0	12.5	14.4	-91.04	-379.1	179.5	826.0	805.8	20.26	40.771		
11,000.0	10,541.0	10,985.5	10,563.0	12.7	14.5	-91.04	-479.1	180.1	826.0	804.9	21.13	39.089		
11,100.0	10,541.0	11,085.5	10,563.0	12.9	14.6	-91.04	-579.1	180.7	826.0	803.9	22.10	37.371		
11,200.0	10,541.0	11,185.5	10,563.0	13.2	14.6	-91.04	-679.1	181.3	826.0	802.8	23.16	35.663		
11,300.0	10,541.0	11,285.5	10,563.0	13.6	14.7	-91.04	-779.1	181.9	825.9	801.6	24.29	33.998		
11,400.0	10,541.0	11,385.5	10,563.0	14.0	14.8	-91.04	-879.1	182.6	825.9	800.4	25.49	32.397		
11,500.0	10,541.0	11,485.5	10,563.0	14.5	14.9	-91.04	-979.1	183.2	825.9	799.2	26.75	30.875		
11,600.0	10,541.0	11,585.5	10,563.0	15.0	15.0	-91.04	-1,079.1	183.8	825.9	797.8	28.06	29.437		
11,700.0	10,541.0	11,685.5	10,563.0	15.6	15.2	-91.04	-1,179.1	184.4	825.9	796.5	29.40	28.087		
11,800.0	10,541.0	11,785.5	10,563.0	16.2	15.5	-91.04	-1,279.1	185.0	825.8	795.1	30.79	26.822		
11,900.0	10,541.0	11,885.5	10,563.0	16.9	15.9	-91.04	-1,379.1	185.6	825.8	793.6	32.21	25.641		
12,000.0	10,541.0	11,985.5	10,563.0	17.5	16.5	-91.04	-1,479.1	186.2	825.8	792.2	33.65	24.538		
12,100.0	10,541.0	12,085.5	10,563.0	18.2	17.2	-91.04	-1,579.1	186.8	825.8	790.7	35.12	23.510		
12,200.0	10,541.0	12,185.5	10,563.0	18.9	17.9	-91.04	-1,679.1	187.5	825.8	789.1	36.62	22.551		
12,300.0	10,541.0	12,285.5	10,563.0	19.6	18.7	-91.04	-1,779.1	188.1	825.7	787.6	38.13	21.657		
12,400.0	10,541.0	12,385.5	10,563.0	20.4	19.4	-91.04	-1,879.1	188.7	825.7	786.1	39.66	20.821		

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
12,500.0	10,541.0	12,485.5	10,563.0	21.1	20.2	-91.04	-91.04	-1,979.1	189.3	825.7	784.5	41.20	20.040	
12,600.0	10,541.0	12,585.5	10,563.0	21.9	21.0	-91.04	-91.04	-2,079.1	189.9	825.7	782.9	42.76	19.310	
12,700.0	10,541.0	12,685.5	10,563.0	22.6	21.8	-91.04	-91.04	-2,179.1	190.5	825.7	781.3	44.33	18.625	
12,800.0	10,541.0	12,785.5	10,563.0	23.4	22.6	-91.04	-91.04	-2,279.1	191.1	825.7	779.7	45.91	17.984	
12,900.0	10,541.0	12,885.5	10,563.0	24.2	23.4	-91.04	-91.04	-2,379.1	191.8	825.6	778.1	47.50	17.381	
13,000.0	10,541.0	12,985.5	10,563.0	25.0	24.2	-91.04	-91.04	-2,479.1	192.4	825.6	776.5	49.10	16.815	
13,100.0	10,541.0	13,085.5	10,563.0	25.8	25.0	-91.04	-91.04	-2,579.1	193.0	825.6	774.9	50.71	16.281	
13,200.0	10,541.0	13,185.5	10,563.0	26.5	25.8	-91.04	-91.04	-2,679.1	193.6	825.6	773.3	52.32	15.778	
13,300.0	10,541.0	13,285.5	10,563.0	27.3	26.6	-91.04	-91.04	-2,779.1	194.2	825.6	771.6	53.94	15.304	
13,400.0	10,541.0	13,385.5	10,563.0	28.1	27.5	-91.04	-91.04	-2,879.1	194.8	825.5	770.0	55.57	14.855	
13,500.0	10,541.0	13,485.5	10,563.0	29.0	28.3	-91.04	-91.04	-2,979.1	195.4	825.5	768.3	57.21	14.431	
13,600.0	10,541.0	13,585.5	10,563.0	29.8	29.1	-91.04	-91.04	-3,079.1	196.1	825.5	766.7	58.84	14.029	
13,700.0	10,541.0	13,685.5	10,563.0	30.6	29.9	-91.04	-91.04	-3,179.1	196.7	825.5	765.0	60.49	13.647	
13,800.0	10,541.0	13,785.5	10,563.0	31.4	30.8	-91.04	-91.04	-3,279.1	197.3	825.5	763.3	62.13	13.285	
13,900.0	10,541.0	13,885.5	10,563.0	32.2	31.6	-91.04	-91.04	-3,379.1	197.9	825.4	761.7	63.78	12.941	
14,000.0	10,541.0	13,985.5	10,563.0	33.0	32.4	-91.04	-91.04	-3,479.0	198.5	825.4	760.0	65.44	12.614	
14,100.0	10,541.0	14,085.5	10,563.0	33.8	33.3	-91.04	-91.04	-3,579.0	199.1	825.4	758.3	67.10	12.302	
14,200.0	10,541.0	14,185.5	10,563.0	34.7	34.1	-91.04	-91.04	-3,679.0	199.7	825.4	756.6	68.76	12.004	
14,300.0	10,541.0	14,285.5	10,563.0	35.5	34.9	-91.04	-91.04	-3,779.0	200.4	825.4	754.9	70.42	11.720	
14,400.0	10,541.0	14,385.5	10,563.0	36.3	35.8	-91.04	-91.04	-3,879.0	201.0	825.3	753.3	72.09	11.449	
14,500.0	10,541.0	14,485.5	10,563.0	37.1	36.6	-91.04	-91.04	-3,979.0	201.6	825.3	751.6	73.76	11.190	
14,600.0	10,541.0	14,585.5	10,563.0	38.0	37.5	-91.04	-91.04	-4,079.0	202.2	825.3	749.9	75.43	10.941	
14,700.0	10,541.0	14,685.5	10,563.0	38.8	38.3	-91.04	-91.04	-4,179.0	202.8	825.3	748.2	77.10	10.704	
14,800.0	10,541.0	14,785.5	10,563.0	39.6	39.2	-91.04	-91.04	-4,279.0	203.4	825.3	746.5	78.78	10.476	
14,900.0	10,541.0	14,885.5	10,563.0	40.5	40.0	-91.04	-91.04	-4,379.0	204.0	825.2	744.8	80.46	10.257	
15,000.0	10,541.0	14,985.5	10,563.0	41.3	40.8	-91.04	-91.04	-4,479.0	204.7	825.2	743.1	82.14	10.047	
15,100.0	10,541.0	15,085.5	10,563.0	42.1	41.7	-91.04	-91.04	-4,579.0	205.3	825.2	741.4	83.82	9.845	
15,200.0	10,541.0	15,185.5	10,563.0	43.0	42.5	-91.04	-91.04	-4,679.0	205.9	825.2	739.7	85.50	9.651	
15,300.0	10,541.0	15,285.5	10,563.0	43.8	43.4	-91.04	-91.04	-4,779.0	206.5	825.2	738.0	87.19	9.464	
15,400.0	10,541.0	15,385.5	10,563.0	44.7	44.2	-91.04	-91.04	-4,879.0	207.1	825.2	736.3	88.87	9.285	
15,500.0	10,541.0	15,485.5	10,563.0	45.5	45.1	-91.04	-91.04	-4,979.0	207.7	825.1	734.6	90.56	9.111	
15,600.0	10,541.0	15,585.5	10,563.0	46.3	45.9	-91.04	-91.04	-5,079.0	208.3	825.1	732.9	92.25	8.944	
15,700.0	10,541.0	15,685.5	10,563.0	47.2	46.8	-91.04	-91.04	-5,179.0	208.9	825.1	731.2	93.94	8.783	
15,800.0	10,541.0	15,785.5	10,563.0	48.0	47.6	-91.04	-91.04	-5,279.0	209.6	825.1	729.4	95.63	8.628	
15,900.0	10,541.0	15,885.5	10,563.0	48.9	48.5	-91.04	-91.04	-5,379.0	210.2	825.1	727.7	97.32	8.477	
16,000.0	10,541.0	15,985.5	10,563.0	49.7	49.3	-91.04	-91.04	-5,479.0	210.8	825.0	726.0	99.02	8.332	
16,100.0	10,541.0	16,085.5	10,563.0	50.6	50.2	-91.04	-91.04	-5,579.0	211.4	825.0	724.3	100.71	8.192	
16,200.0	10,541.0	16,185.5	10,563.0	51.4	51.0	-91.04	-91.04	-5,679.0	212.0	825.0	722.6	102.41	8.056	
16,300.0	10,541.0	16,285.5	10,563.0	52.2	51.9	-91.04	-91.04	-5,779.0	212.6	825.0	720.9	104.10	7.925	
16,400.0	10,541.0	16,385.5	10,563.0	53.1	52.7	-91.04	-91.04	-5,879.0	213.2	825.0	719.2	105.80	7.797	
16,500.0	10,541.0	16,485.5	10,563.0	53.9	53.6	-91.04	-91.04	-5,979.0	213.9	824.9	717.4	107.50	7.674	
16,600.0	10,541.0	16,585.5	10,563.0	54.8	54.4	-91.04	-91.04	-6,079.0	214.5	824.9	715.7	109.20	7.554	
16,700.0	10,541.0	16,685.5	10,563.0	55.6	55.3	-91.04	-91.04	-6,179.0	215.1	824.9	714.0	110.90	7.439	
16,800.0	10,541.0	16,785.5	10,563.0	56.5	56.1	-91.04	-91.04	-6,279.0	215.7	824.9	712.3	112.60	7.326	
16,900.0	10,541.0	16,885.5	10,563.0	57.3	57.0	-91.04	-91.04	-6,379.0	216.3	824.9	710.6	114.30	7.217	
17,000.0	10,541.0	16,985.5	10,563.0	58.2	57.8	-91.04	-91.04	-6,479.0	216.9	824.8	708.8	116.00	7.111	
17,100.0	10,541.0	17,085.5	10,563.0	59.0	58.7	-91.04	-91.04	-6,579.0	217.5	824.8	707.1	117.70	7.008	
17,200.0	10,541.0	17,185.5	10,563.0	59.9	59.5	-91.04	-91.04	-6,679.0	218.2	824.8	705.4	119.40	6.908	
17,300.0	10,541.0	17,285.5	10,563.0	60.7	60.4	-91.04	-91.04	-6,779.0	218.8	824.8	703.7	121.10	6.811	
17,400.0	10,541.0	17,385.5	10,563.0	61.6	61.2	-91.04	-91.04	-6,879.0	219.4	824.8	702.0	122.81	6.716	
17,500.0	10,541.0	17,485.5	10,563.0	62.4	62.1	-91.04	-91.04	-6,979.0	220.0	824.8	700.2	124.51	6.624	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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 (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,600.0	10,541.0	17,585.5	10,563.0	63.3	63.0	-91.04	-91.04	-7,079.0	220.6	824.7	698.5	126.22	6.534	
17,700.0	10,541.0	17,685.5	10,563.0	64.1	63.8	-91.04	-91.04	-7,179.0	221.2	824.7	696.8	127.92	6.447	
17,800.0	10,541.0	17,785.5	10,563.0	65.0	64.7	-91.04	-91.04	-7,279.0	221.8	824.7	695.1	129.63	6.362	
17,900.0	10,541.0	17,885.5	10,563.0	65.8	65.5	-91.04	-91.04	-7,379.0	222.5	824.7	693.3	131.33	6.279	
18,000.0	10,541.0	17,985.5	10,563.0	66.7	66.4	-91.04	-91.04	-7,479.0	223.1	824.7	691.6	133.04	6.199	
18,100.0	10,541.0	18,085.5	10,563.0	67.5	67.2	-91.04	-91.04	-7,579.0	223.7	824.6	689.9	134.75	6.120	
18,200.0	10,541.0	18,185.5	10,563.0	68.4	68.1	-91.04	-91.04	-7,679.0	224.3	824.6	688.2	136.45	6.043	
18,300.0	10,541.0	18,285.5	10,563.0	69.2	68.9	-91.04	-91.04	-7,779.0	224.9	824.6	686.4	138.16	5.968	
18,400.0	10,541.0	18,385.5	10,563.0	70.1	69.8	-91.04	-91.04	-7,879.0	225.5	824.6	684.7	139.87	5.895	
18,500.0	10,541.0	18,485.5	10,563.0	70.9	70.7	-91.04	-91.04	-7,979.0	226.1	824.6	683.0	141.58	5.824	
18,600.0	10,541.0	18,585.5	10,563.0	71.8	71.5	-91.04	-91.04	-8,079.0	226.8	824.5	681.3	143.29	5.754	
18,700.0	10,541.0	18,685.5	10,563.0	72.6	72.4	-91.04	-91.04	-8,179.0	227.4	824.5	679.5	145.00	5.687	
18,800.0	10,541.0	18,785.5	10,563.0	73.5	73.2	-91.04	-91.04	-8,279.0	228.0	824.5	677.8	146.70	5.620	
18,900.0	10,541.0	18,885.5	10,563.0	74.3	74.1	-91.04	-91.04	-8,379.0	228.6	824.5	676.1	148.41	5.555	
19,000.0	10,541.0	18,985.5	10,563.0	75.2	74.9	-91.04	-91.04	-8,479.0	229.2	824.5	674.3	150.12	5.492	
19,100.0	10,541.0	19,085.5	10,563.0	76.0	75.8	-91.04	-91.04	-8,579.0	229.8	824.4	672.6	151.83	5.430	
19,200.0	10,541.0	19,185.5	10,563.0	76.9	76.7	-91.04	-91.04	-8,679.0	230.4	824.4	670.9	153.54	5.369	
19,300.0	10,541.0	19,285.5	10,563.0	77.8	77.5	-91.04	-91.04	-8,778.9	231.0	824.4	669.1	155.26	5.310	
19,400.0	10,541.0	19,385.5	10,563.0	78.6	78.4	-91.04	-91.04	-8,878.9	231.7	824.4	667.4	156.97	5.252	
19,500.0	10,541.0	19,485.5	10,563.0	79.5	79.2	-91.04	-91.04	-8,978.9	232.3	824.4	665.7	158.68	5.195	
19,600.0	10,541.0	19,585.5	10,563.0	80.3	80.1	-91.04	-91.04	-9,078.9	232.9	824.3	664.0	160.39	5.140	
19,700.0	10,541.0	19,685.5	10,563.0	81.2	80.9	-91.04	-91.04	-9,178.9	233.5	824.3	662.2	162.10	5.085	
19,800.0	10,541.0	19,785.5	10,563.0	82.0	81.8	-91.04	-91.04	-9,278.9	234.1	824.3	660.5	163.81	5.032	
19,900.0	10,541.0	19,885.5	10,563.0	82.9	82.7	-91.04	-91.04	-9,378.9	234.7	824.3	658.8	165.52	4.980	
20,000.0	10,541.0	19,985.5	10,563.0	83.7	83.5	-91.04	-91.04	-9,478.9	235.3	824.3	657.0	167.24	4.929	
20,100.0	10,541.0	20,085.5	10,563.0	84.6	84.4	-91.04	-91.04	-9,578.9	236.0	824.3	655.3	168.95	4.879	
20,200.0	10,541.0	20,185.5	10,563.0	85.4	85.2	-91.04	-91.04	-9,678.9	236.6	824.2	653.6	170.66	4.830	
20,300.0	10,541.0	20,285.5	10,563.0	86.3	86.1	-91.04	-91.04	-9,778.9	237.2	824.2	651.8	172.38	4.782	
20,400.0	10,541.0	20,385.5	10,563.0	87.2	86.9	-91.04	-91.04	-9,878.9	237.8	824.2	650.1	174.09	4.734	
20,500.0	10,541.0	20,485.5	10,563.0	88.0	87.8	-91.04	-91.04	-9,978.9	238.4	824.2	648.4	175.80	4.688	
20,600.0	10,541.0	20,585.5	10,563.0	88.9	88.7	-91.04	-91.04	-10,078.9	239.0	824.2	646.6	177.51	4.643	
20,700.0	10,541.0	20,685.5	10,563.0	89.7	89.5	-91.04	-91.04	-10,178.9	239.6	824.1	644.9	179.23	4.598	
20,730.4	10,541.0	20,715.9	10,563.0	89.9	89.8	-91.04	-91.04	-10,209.3	239.8	824.1	644.5	179.68	4.587 SF	

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

10/12/2021 2:49:52PM

Page 14

COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	1.0	1.0	3.0	3.0	89.48	0.3	30.0			30.0			
100.0	100.0	101.0	101.0	3.0	3.0	89.48	0.3	30.0			30.0	24.0	6.00	4.993
200.0	200.0	201.0	201.0	3.0	3.0	89.48	0.3	30.0			30.0	24.0	6.00	4.991
300.0	300.0	301.0	301.0	3.0	3.0	89.48	0.3	30.0			30.0	24.0	6.01	4.986
400.0	400.0	401.0	401.0	3.0	3.0	89.48	0.3	30.0			30.0	23.9	6.02	4.978
500.0	500.0	501.0	501.0	3.1	3.1	89.48	0.3	30.0			30.0	23.9	6.03	4.968
600.0	600.0	601.0	601.0	3.1	3.1	89.48	0.3	30.0			30.0	23.9	6.05	4.955
700.0	700.0	701.0	701.0	3.1	3.1	89.48	0.3	30.0			30.0	23.9	6.07	4.939
800.0	800.0	801.0	801.0	3.2	3.2	89.48	0.3	30.0			30.0	23.9	6.09	4.921
900.0	900.0	901.0	901.0	3.2	3.2	89.48	0.3	30.0			30.0	23.8	6.11	4.901
1,000.0	1,000.0	1,001.0	1,001.0	3.2	3.2	89.48	0.3	30.0			30.0	23.8	6.14	4.879
1,100.0	1,100.0	1,101.0	1,101.0	3.3	3.3	89.48	0.3	30.0			30.0	23.8	6.17	4.854
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.4	89.48	0.3	30.0			30.0	23.8	6.21	4.827
1,300.0	1,300.0	1,301.0	1,301.0	3.4	3.4	89.48	0.3	30.0			30.0	23.7	6.24	4.798
1,400.0	1,400.0	1,401.0	1,401.0	3.5	3.5	89.48	0.3	30.0			30.0	23.7	6.28	4.768
1,500.0	1,500.0	1,501.0	1,501.0	3.5	3.5	89.48	0.3	30.0			30.0	23.6	6.33	4.735
1,600.0	1,600.0	1,601.0	1,601.0	3.6	3.6	89.48	0.3	30.0			30.0	23.6	6.37	4.701
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	89.48	0.3	30.0			30.0	23.5	6.42	4.666
1,800.0	1,800.0	1,801.0	1,801.0	3.8	3.8	89.48	0.3	30.0			30.0	23.5	6.47	4.629
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	89.48	0.3	30.0			30.0	23.4	6.53	4.591
2,000.0	2,000.0	2,001.0	2,001.0	3.9	3.9	89.48	0.3	30.0			30.0	23.4	6.58	4.552
2,100.0	2,100.0	2,101.0	2,101.0	4.0	4.0	89.48	0.3	30.0			30.0	23.3	6.64	4.512
2,200.0	2,200.0	2,201.0	2,201.0	4.1	4.1	89.48	0.3	30.0			30.0	23.3	6.70	4.471
2,300.0	2,300.0	2,301.0	2,301.0	4.2	4.2	89.48	0.3	30.0			30.0	23.2	6.77	4.429
2,400.0	2,400.0	2,401.0	2,401.0	4.3	4.3	89.48	0.3	30.0			30.0	23.1	6.83	4.386
2,500.0	2,500.0	2,501.0	2,501.0	4.4	4.4	89.48	0.3	30.0			30.0	23.1	6.90	4.343 CC, ES
2,600.0	2,600.0	2,601.0	2,601.0	4.5	4.5	168.01	0.3	30.0			31.7	24.7	6.97	4.544
2,700.0	2,699.8	2,700.8	2,700.8	4.5	4.6	169.68	0.3	30.0			36.8	29.8	7.05	5.220
2,800.0	2,799.5	2,800.5	2,800.5	4.6	4.7	171.63	0.3	30.0			45.4	38.3	7.15	6.351
2,850.0	2,849.1	2,850.1	2,850.1	4.6	4.7	172.54	0.3	30.0			51.0	43.8	7.20	7.082
2,900.0	2,898.8	2,899.8	2,899.8	4.6	4.8	173.33	0.3	30.0			57.1	49.8	7.26	7.860
3,000.0	2,998.0	2,999.0	2,999.0	4.7	4.9	174.51	0.3	30.0			69.2	61.8	7.37	9.381
3,100.0	3,097.3	3,098.3	3,098.3	4.7	5.0	175.33	0.3	30.0			81.3	73.8	7.49	10.853
3,200.0	3,196.5	3,197.5	3,197.5	4.8	5.1	175.94	0.3	30.0			93.5	85.9	7.61	12.276
3,300.0	3,295.8	3,296.8	3,296.8	4.8	5.2	176.40	0.3	30.0			105.6	97.9	7.74	13.650
3,400.0	3,395.0	3,396.0	3,396.0	4.9	5.3	176.78	0.3	30.0			117.8	109.9	7.87	14.976
3,500.0	3,494.3	3,495.3	3,495.3	5.0	5.4	177.08	0.3	30.0			130.0	122.0	8.00	16.254
3,600.0	3,593.5	3,594.5	3,594.5	5.1	5.5	177.33	0.3	30.0			142.1	134.0	8.13	17.486
3,700.0	3,692.8	3,693.8	3,693.8	5.1	5.6	177.54	0.3	30.0			154.3	146.0	8.26	18.672
3,800.0	3,792.0	3,793.0	3,793.0	5.2	5.8	177.72	0.3	30.0			166.5	158.1	8.40	19.814
3,900.0	3,891.3	3,892.3	3,892.3	5.3	5.9	177.88	0.3	30.0			178.7	170.1	8.54	20.914
4,000.0	3,990.6	3,991.6	3,991.6	5.4	6.0	178.01	0.3	30.0			190.8	182.2	8.69	21.971
4,100.0	4,089.8	4,090.8	4,090.8	5.4	6.1	178.13	0.3	30.0			203.0	194.2	8.83	22.989
4,200.0	4,189.1	4,190.1	4,190.1	5.5	6.2	178.24	0.3	30.0			215.2	206.2	8.98	23.967
4,300.0	4,288.3	4,289.3	4,289.3	5.6	6.3	178.33	0.3	30.0			227.4	218.3	9.13	24.909
4,400.0	4,387.6	4,388.6	4,388.6	5.7	6.4	178.42	0.3	30.0			239.6	230.3	9.28	25.814
4,500.0	4,486.8	4,487.8	4,487.8	5.8	6.6	178.49	0.3	30.0			251.8	242.3	9.43	26.685
4,600.0	4,586.1	4,587.1	4,587.1	5.9	6.7	178.56	0.3	30.0			263.9	254.3	9.59	27.523
4,700.0	4,685.3	4,686.3	4,686.3	6.0	6.8	178.63	0.3	30.0			276.1	266.4	9.75	28.329
4,800.0	4,784.6	4,785.6	4,785.6	6.1	6.9	178.68	0.3	30.0			288.3	278.4	9.91	29.105
4,900.0	4,883.8	4,884.8	4,884.8	6.2	7.0	178.74	0.3	30.0			300.5	290.4	10.07	29.852

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset	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	4,983.1	4,984.1	4,984.1	6.3	7.1	178.79		0.3	30.0	312.7	302.4	10.23	30.570	
5,100.0	5,082.4	5,083.4	5,083.4	6.4	7.3	178.83		0.3	30.0	324.9	314.5	10.39	31.262	
5,200.0	5,181.6	5,182.6	5,182.6	6.5	7.4	178.87		0.3	30.0	337.0	326.5	10.56	31.929	
5,300.0	5,280.9	5,281.9	5,281.9	6.6	7.5	178.91		0.3	30.0	349.2	338.5	10.72	32.571	
5,400.0	5,380.1	5,381.1	5,381.1	6.7	7.6	178.95		0.3	30.0	361.4	350.5	10.89	33.189	
5,500.0	5,479.4	5,480.4	5,480.4	6.8	7.7	178.98		0.3	30.0	373.6	362.5	11.06	33.785	
5,600.0	5,578.6	5,591.3	5,591.3	6.9	7.9	178.95		1.0	28.7	384.6	373.3	11.23	34.236	
5,700.0	5,677.9	5,701.3	5,701.2	7.0	7.9	178.74		3.7	23.9	392.0	380.6	11.42	34.324	
5,800.0	5,777.1	5,801.1	5,800.8	7.1	8.0	178.51		6.6	18.7	398.5	386.9	11.60	34.362	
5,900.0	5,876.4	5,900.9	5,900.4	7.2	8.1	178.28		9.5	13.5	405.1	393.3	11.78	34.393	
6,000.0	5,975.7	6,000.7	6,000.0	7.3	8.2	178.06		12.4	8.3	411.6	399.6	11.96	34.418	
6,100.0	6,074.9	6,100.4	6,099.6	7.5	8.3	177.85		15.3	3.1	418.1	406.0	12.14	34.438	
6,200.0	6,174.2	6,200.2	6,199.2	7.6	8.4	177.65		18.3	-2.2	424.7	412.4	12.33	34.453	
6,300.0	6,273.4	6,300.0	6,298.8	7.7	8.4	177.45		21.2	-7.4	431.2	418.7	12.51	34.463	
6,400.0	6,372.7	6,399.8	6,398.4	7.8	8.5	177.26		24.1	-12.6	437.8	425.1	12.70	34.468	
6,500.0	6,471.9	6,499.5	6,498.0	7.9	8.6	177.07		27.0	-17.8	444.3	431.5	12.89	34.469	
6,600.0	6,571.2	6,599.3	6,597.5	8.0	8.7	176.89		30.0	-23.0	450.9	437.8	13.08	34.467	
6,700.0	6,670.4	6,699.1	6,697.1	8.1	8.8	176.71		32.9	-28.3	457.5	444.2	13.28	34.461	
6,800.0	6,769.7	6,798.9	6,796.7	8.3	8.9	176.54		35.8	-33.5	464.0	450.6	13.47	34.452	
6,900.0	6,868.9	6,898.6	6,896.3	8.4	9.0	176.37		38.7	-38.7	470.6	457.0	13.67	34.439	
7,000.0	6,968.2	6,998.4	6,995.9	8.5	9.1	176.21		41.6	-43.9	477.2	463.3	13.86	34.424	
7,100.0	7,067.5	7,098.2	7,095.5	8.6	9.1	176.05		44.6	-49.1	483.8	469.7	14.06	34.407	
7,200.0	7,166.7	7,198.0	7,195.1	8.7	9.2	175.90		47.5	-54.3	490.4	476.1	14.26	34.387	
7,300.0	7,266.0	7,297.7	7,294.7	8.8	9.3	175.75		50.4	-59.6	497.0	482.5	14.46	34.365	
7,400.0	7,365.2	7,397.5	7,394.3	9.0	9.4	175.61		53.3	-64.8	503.6	488.9	14.66	34.341	
7,500.0	7,464.5	7,497.3	7,493.9	9.1	9.5	175.46		56.3	-70.0	510.2	495.3	14.87	34.315	
7,600.0	7,563.7	7,597.1	7,593.5	9.2	9.6	175.33		59.2	-75.2	516.8	501.7	15.07	34.287	
7,700.0	7,663.0	7,696.8	7,693.1	9.3	9.7	175.19		62.1	-80.4	523.4	508.1	15.28	34.258	
7,800.0	7,762.2	7,796.6	7,792.7	9.4	9.8	175.06		65.0	-85.7	530.0	514.5	15.48	34.227	
7,900.0	7,861.5	7,896.4	7,892.3	9.6	9.9	174.93		68.0	-90.9	536.6	520.9	15.69	34.195	
7,953.0	7,914.1	7,949.3	7,945.1	9.6	10.0	174.87		69.5	-93.6	540.1	524.3	15.80	34.178	
8,000.0	7,960.8	7,996.2	7,991.9	9.7	10.0	174.81		70.9	-96.1	542.8	526.9	15.90	34.139	
8,100.0	8,060.4	8,096.1	8,091.7	9.8	10.1	174.66		73.8	-101.3	546.0	529.9	16.11	33.903	
8,200.0	8,160.2	8,196.1	8,191.5	9.9	10.2	174.47		76.7	-106.5	548.8	529.5	16.31	33.467	
8,303.0	8,263.3	8,299.0	8,294.2	10.0	10.3	96.39		79.7	-111.9	542.0	525.5	16.48	32.886	
8,400.0	8,360.2	8,395.8	8,390.8	10.1	10.4	96.15		82.6	-117.0	536.6	520.0	16.61	32.315	
8,500.0	8,460.2	8,495.6	8,490.5	10.2	10.5	95.90		85.5	-122.2	531.1	514.4	16.73	31.737	
8,600.0	8,560.2	8,595.5	8,590.1	10.3	10.6	95.64		88.4	-127.4	525.6	508.7	16.86	31.170	
8,700.0	8,660.2	8,695.3	8,689.7	10.4	10.7	95.37		91.4	-132.6	520.1	503.1	16.99	30.613	
8,800.0	8,760.2	8,795.1	8,789.4	10.5	10.9	95.10		94.3	-137.9	514.6	497.5	17.12	30.067	
8,900.0	8,860.2	8,894.9	8,889.0	10.6	11.0	94.83		97.2	-143.1	509.2	491.9	17.24	29.531	
9,000.0	8,960.2	8,994.7	8,988.7	10.7	11.1	94.55		100.1	-148.3	503.7	486.4	17.37	29.005	
9,100.0	9,060.2	9,094.6	9,088.3	10.8	11.2	94.26		103.1	-153.5	498.3	480.8	17.49	28.489	
9,200.0	9,160.2	9,194.4	9,187.9	10.9	11.3	93.96		106.0	-158.7	492.9	475.2	17.61	27.983	
9,300.0	9,260.2	9,294.2	9,287.6	11.0	11.4	93.66		108.9	-164.0	487.4	469.7	17.73	27.486	
9,400.0	9,360.2	9,394.0	9,387.2	11.1	11.5	93.36		111.8	-169.2	482.0	464.2	17.85	26.999	
9,500.0	9,460.2	9,493.8	9,486.9	11.2	11.6	93.04		114.7	-174.4	476.7	458.7	17.97	26.520	
9,600.0	9,560.2	9,593.7	9,586.5	11.3	11.7	92.72		117.7	-179.6	471.3	453.2	18.09	26.051	
9,700.0	9,660.2	9,693.5	9,686.1	11.4	11.8	92.39		120.6	-184.8	465.9	447.7	18.21	25.590	
9,800.0	9,760.2	9,793.3	9,785.8	11.5	11.9	92.05		123.5	-190.1	460.6	442.3	18.32	25.138	
9,900.0	9,860.2	9,893.1	9,885.4	11.6	12.0	91.71		126.4	-195.3	455.3	436.8	18.44	24.695	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
10,000.0	9,960.2	9,992.9	9,985.1	11.7	12.2	91.36		129.4	-200.5	449.9	431.4	18.55	24.259	
10,103.3	10,063.5	10,096.0	10,088.0	11.8	12.3	90.98		132.4	-205.9	444.5	425.7	18.78	23.673	
10,125.0	10,085.2	10,117.7	10,109.6	11.8	12.3	-88.94		133.0	-207.0	443.3	424.6	18.78	23.611	
10,150.0	10,110.1	10,142.5	10,134.4	11.8	12.3	-89.42		133.8	-208.3	442.0	423.2	18.75	23.567	
10,175.0	10,135.0	10,167.2	10,159.0	11.8	12.3	-90.07		134.5	-209.6	440.6	421.9	18.71	23.551	
10,200.0	10,159.6	10,191.6	10,183.4	11.8	12.4	-90.88		135.2	-210.9	439.4	420.7	18.65	23.564	
10,225.0	10,183.9	10,216.1	10,207.9	11.8	12.4	-91.78		135.4	-212.2	438.2	419.6	18.56	23.606	
10,250.0	10,207.9	10,241.0	10,232.7	11.8	12.4	-92.69		134.4	-213.5	437.1	418.6	18.48	23.647	
10,275.0	10,231.5	10,266.1	10,257.7	11.8	12.4	-93.60		132.0	-214.8	436.1	417.6	18.41	23.682	
10,300.0	10,254.7	10,291.6	10,282.8	11.9	12.4	-94.51		128.2	-216.0	435.2	416.8	18.35	23.710	
10,325.0	10,277.3	10,317.4	10,308.1	11.9	12.4	-95.41		123.1	-217.3	434.4	416.1	18.31	23.726	
10,350.0	10,299.4	10,343.6	10,333.4	11.9	12.4	-96.31		116.4	-218.6	433.7	415.4	18.28	23.726	
10,375.0	10,320.8	10,370.2	10,358.6	11.9	12.4	-97.20		108.3	-219.9	433.1	414.8	18.27	23.704	
10,400.0	10,341.5	10,397.1	10,383.7	11.9	12.4	-98.07		98.6	-221.1	432.6	414.4	18.29	23.657	
10,425.0	10,361.4	10,424.4	10,408.6	12.0	12.4	-98.94		87.4	-222.4	432.3	413.9	18.33	23.578	
10,450.0	10,380.5	10,452.1	10,433.1	12.0	12.4	-99.78		74.6	-223.6	432.0	413.6	18.41	23.465	
10,475.0	10,398.8	10,480.2	10,457.2	12.0	12.5	-100.60		60.1	-224.7	431.8	413.3	18.52	23.314	
10,500.0	10,416.1	10,508.7	10,480.7	12.0	12.5	-101.40		44.0	-225.9	431.7	413.1	18.67	23.124	
10,515.8	10,426.6	10,527.0	10,495.2	12.1	12.5	-101.89		33.0	-226.5	431.7	412.9	18.78	22.983	
10,525.0	10,432.5	10,537.7	10,503.5	12.1	12.5	-102.17		26.3	-226.9	431.7	412.9	18.86	22.894	
10,550.0	10,447.8	10,567.0	10,525.5	12.1	12.5	-102.91		7.0	-228.0	431.8	412.7	19.08	22.628	
10,575.0	10,462.1	10,596.7	10,546.6	12.1	12.5	-103.61		-13.9	-228.9	431.9	412.6	19.34	22.328	
10,600.0	10,475.3	10,626.8	10,566.5	12.2	12.6	-104.27		-36.4	-229.8	432.1	412.5	19.64	22.000	
10,625.0	10,487.4	10,657.2	10,585.2	12.2	12.6	-104.89		-60.5	-230.7	432.3	412.3	19.97	21.650	
10,650.0	10,498.3	10,688.1	10,602.6	12.2	12.6	-105.47		-85.9	-231.4	432.6	412.2	20.32	21.285	
10,675.0	10,508.1	10,719.2	10,618.4	12.2	12.7	-106.00		-112.8	-232.1	432.8	412.1	20.70	20.914	
10,700.0	10,516.6	10,750.7	10,632.6	12.3	12.7	-106.48		-140.9	-232.6	433.1	412.0	21.08	20.543	
10,725.0	10,523.8	10,782.5	10,645.0	12.3	12.7	-106.90		-170.1	-233.1	433.4	411.9	21.48	20.178	
10,750.0	10,529.8	10,814.6	10,655.5	12.3	12.8	-107.26		-200.4	-233.5	433.6	411.8	21.87	19.827	
10,775.0	10,534.6	10,846.9	10,664.1	12.4	12.8	-107.56		-231.5	-233.7	433.9	411.6	22.26	19.494	
10,800.0	10,538.0	10,879.3	10,670.5	12.4	12.8	-107.80		-263.3	-233.8	434.1	411.5	22.63	19.182	
10,825.0	10,540.1	10,911.9	10,674.8	12.4	12.9	-107.98		-295.7	-233.9	434.3	411.3	22.98	18.895	
10,850.0	10,541.0	10,944.7	10,676.8	12.5	12.9	-108.09		-328.3	-233.8	434.4	411.1	23.31	18.636	
10,853.3	10,541.0	10,949.0	10,676.9	12.5	12.9	-108.10		-332.6	-233.7	434.5	411.1	23.35	18.604	
10,900.0	10,541.0	10,997.9	10,677.0	12.5	12.9	-108.11		-381.6	-233.4	434.5	410.8	23.69	18.338	
11,000.0	10,541.0	11,097.9	10,677.0	12.7	13.0	-108.11		-481.6	-232.8	434.5	410.0	24.42	17.795	
11,100.0	10,541.0	11,197.9	10,677.0	12.9	13.1	-108.11		-581.6	-232.2	434.5	409.2	25.23	17.218	
11,200.0	10,541.0	11,297.9	10,677.0	13.2	13.3	-108.11		-681.6	-231.6	434.4	408.3	26.14	16.622	
11,300.0	10,541.0	11,397.9	10,677.0	13.6	13.6	-108.11		-781.6	-231.0	434.4	407.3	27.12	16.020	
11,400.0	10,541.0	11,497.9	10,677.0	14.0	13.9	-108.11		-881.6	-230.3	434.4	406.3	28.17	15.422	
11,500.0	10,541.0	11,597.9	10,677.0	14.5	14.3	-108.11		-981.6	-229.7	434.4	405.1	29.28	14.836	
11,600.0	10,541.0	11,697.9	10,677.0	15.0	14.7	-108.12		-1,081.6	-229.1	434.4	404.0	30.45	14.267	
11,700.0	10,541.0	11,797.9	10,677.0	15.6	15.2	-108.12		-1,181.6	-228.5	434.4	402.7	31.67	13.718	
11,800.0	10,541.0	11,897.9	10,677.0	16.2	15.8	-108.12		-1,281.6	-227.8	434.4	401.5	32.93	13.193	
11,900.0	10,541.0	11,997.9	10,677.0	16.9	16.4	-108.12		-1,381.6	-227.2	434.4	400.2	34.22	12.692	
12,000.0	10,541.0	12,097.9	10,677.0	17.5	17.1	-108.12		-1,481.6	-226.6	434.4	398.8	35.56	12.216	
12,100.0	10,541.0	12,197.9	10,677.0	18.2	17.8	-108.12		-1,581.6	-226.0	434.4	397.4	36.92	11.765	
12,200.0	10,541.0	12,297.9	10,677.0	18.9	18.5	-108.12		-1,681.6	-225.3	434.4	396.0	38.31	11.337	
12,300.0	10,541.0	12,397.9	10,677.0	19.6	19.2	-108.12		-1,781.6	-224.7	434.3	394.6	39.73	10.933	
12,400.0	10,541.0	12,497.9	10,677.0	20.4	20.0	-108.12		-1,881.6	-224.1	434.3	393.2	41.17	10.551	
12,500.0	10,541.0	12,597.9	10,677.0	21.1	20.7	-108.12		-1,981.6	-223.5	434.3	391.7	42.62	10.190	

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,600.0	10,541.0	12,697.9	10,677.0	21.9	21.5	-108.12	-2,081.6	-222.8	434.3	390.2	44.10	9.848		
12,700.0	10,541.0	12,797.9	10,677.0	22.6	22.2	-108.12	-2,181.6	-222.2	434.3	388.7	45.59	9.526		
12,800.0	10,541.0	12,897.9	10,677.0	23.4	23.0	-108.12	-2,281.6	-221.6	434.3	387.2	47.10	9.221		
12,900.0	10,541.0	12,997.9	10,677.0	24.2	23.8	-108.12	-2,381.6	-221.0	434.3	385.7	48.62	8.933		
13,000.0	10,541.0	13,097.9	10,677.0	25.0	24.6	-108.12	-2,481.6	-220.4	434.3	384.1	50.15	8.660		
13,100.0	10,541.0	13,197.9	10,677.0	25.8	25.4	-108.12	-2,581.6	-219.7	434.3	382.6	51.69	8.401		
13,200.0	10,541.0	13,297.9	10,677.0	26.5	26.2	-108.12	-2,681.6	-219.1	434.3	381.0	53.25	8.156		
13,300.0	10,541.0	13,397.9	10,677.0	27.3	27.0	-108.12	-2,781.6	-218.5	434.2	379.4	54.81	7.923		
13,400.0	10,541.0	13,497.9	10,677.0	28.1	27.8	-108.12	-2,881.6	-217.9	434.2	377.9	56.38	7.702		
13,500.0	10,541.0	13,597.9	10,677.0	29.0	28.6	-108.12	-2,981.6	-217.2	434.2	376.3	57.96	7.492		
13,600.0	10,541.0	13,697.9	10,677.0	29.8	29.4	-108.12	-3,081.6	-216.6	434.2	374.7	59.54	7.293		
13,700.0	10,541.0	13,797.9	10,677.0	30.6	30.3	-108.12	-3,181.5	-216.0	434.2	373.1	61.13	7.103		
13,800.0	10,541.0	13,897.9	10,677.0	31.4	31.1	-108.12	-3,281.5	-215.4	434.2	371.5	62.73	6.922		
13,900.0	10,541.0	13,997.9	10,677.0	32.2	31.9	-108.12	-3,381.5	-214.7	434.2	369.9	64.33	6.749		
14,000.0	10,541.0	14,097.9	10,677.0	33.0	32.7	-108.12	-3,481.5	-214.1	434.2	368.2	65.94	6.584		
14,100.0	10,541.0	14,197.9	10,677.0	33.8	33.5	-108.12	-3,581.5	-213.5	434.2	366.6	67.56	6.427		
14,200.0	10,541.0	14,297.9	10,677.0	34.7	34.4	-108.12	-3,681.5	-212.9	434.2	365.0	69.17	6.276		
14,300.0	10,541.0	14,397.9	10,677.0	35.5	35.2	-108.12	-3,781.5	-212.3	434.2	363.4	70.80	6.132		
14,400.0	10,541.0	14,497.9	10,677.0	36.3	36.0	-108.12	-3,881.5	-211.6	434.1	361.7	72.42	5.995		
14,500.0	10,541.0	14,597.9	10,677.0	37.1	36.9	-108.12	-3,981.5	-211.0	434.1	360.1	74.05	5.863		
14,600.0	10,541.0	14,697.9	10,677.0	38.0	37.7	-108.12	-4,081.5	-210.4	434.1	358.4	75.69	5.736		
14,700.0	10,541.0	14,797.9	10,677.0	38.8	38.5	-108.12	-4,181.5	-209.8	434.1	356.8	77.32	5.614		
14,800.0	10,541.0	14,897.9	10,677.0	39.6	39.4	-108.12	-4,281.5	-209.1	434.1	355.1	78.96	5.498		
14,900.0	10,541.0	14,997.9	10,677.0	40.5	40.2	-108.12	-4,381.5	-208.5	434.1	353.5	80.60	5.386		
15,000.0	10,541.0	15,097.9	10,677.0	41.3	41.1	-108.13	-4,481.5	-207.9	434.1	351.8	82.25	5.278		
15,100.0	10,541.0	15,197.9	10,677.0	42.1	41.9	-108.13	-4,581.5	-207.3	434.1	350.2	83.90	5.174		
15,200.0	10,541.0	15,297.9	10,677.0	43.0	42.7	-108.13	-4,681.5	-206.6	434.1	348.5	85.55	5.074		
15,300.0	10,541.0	15,397.9	10,677.0	43.8	43.6	-108.13	-4,781.5	-206.0	434.1	346.9	87.20	4.978		
15,400.0	10,541.0	15,497.9	10,677.0	44.7	44.4	-108.13	-4,881.5	-205.4	434.1	345.2	88.85	4.885		
15,500.0	10,541.0	15,597.9	10,677.0	45.5	45.3	-108.13	-4,981.5	-204.8	434.0	343.5	90.51	4.796		
15,600.0	10,541.0	15,697.9	10,677.0	46.3	46.1	-108.13	-5,081.5	-204.1	434.0	341.9	92.16	4.709		
15,700.0	10,541.0	15,797.9	10,677.0	47.2	47.0	-108.13	-5,181.5	-203.5	434.0	340.2	93.82	4.626		
15,800.0	10,541.0	15,897.9	10,677.0	48.0	47.8	-108.13	-5,281.5	-202.9	434.0	338.5	95.49	4.545		
15,900.0	10,541.0	15,997.9	10,677.0	48.9	48.6	-108.13	-5,381.5	-202.3	434.0	336.9	97.15	4.467		
16,000.0	10,541.0	16,097.9	10,677.0	49.7	49.5	-108.13	-5,481.5	-201.7	434.0	335.2	98.81	4.392		
16,100.0	10,541.0	16,197.9	10,677.0	50.6	50.3	-108.13	-5,581.5	-201.0	434.0	333.5	100.48	4.319		
16,200.0	10,541.0	16,297.9	10,677.0	51.4	51.2	-108.13	-5,681.5	-200.4	434.0	331.8	102.15	4.249		
16,300.0	10,541.0	16,397.9	10,677.0	52.2	52.0	-108.13	-5,781.5	-199.8	434.0	330.2	103.81	4.180		
16,400.0	10,541.0	16,497.9	10,677.0	53.1	52.9	-108.13	-5,881.5	-199.2	434.0	328.5	105.48	4.114		
16,500.0	10,541.0	16,597.9	10,677.0	53.9	53.7	-108.13	-5,981.5	-198.5	433.9	326.8	107.15	4.050		
16,600.0	10,541.0	16,697.9	10,677.0	54.8	54.6	-108.13	-6,081.5	-197.9	433.9	325.1	108.83	3.987		
16,700.0	10,541.0	16,797.9	10,677.0	55.6	55.4	-108.13	-6,181.5	-197.3	433.9	323.4	110.50	3.927		
16,800.0	10,541.0	16,897.9	10,677.0	56.5	56.3	-108.13	-6,281.5	-196.7	433.9	321.7	112.17	3.868		
16,900.0	10,541.0	16,997.9	10,677.0	57.3	57.1	-108.13	-6,381.5	-196.0	433.9	320.1	113.85	3.811		
17,000.0	10,541.0	17,097.9	10,677.0	58.2	58.0	-108.13	-6,481.5	-195.4	433.9	318.4	115.53	3.756		
17,100.0	10,541.0	17,197.9	10,677.0	59.0	58.8	-108.13	-6,581.5	-194.8	433.9	316.7	117.20	3.702		
17,200.0	10,541.0	17,297.9	10,677.0	59.9	59.7	-108.13	-6,681.5	-194.2	433.9	315.0	118.88	3.650		
17,300.0	10,541.0	17,397.9	10,677.0	60.7	60.5	-108.13	-6,781.5	-193.5	433.9	313.3	120.56	3.599		
17,400.0	10,541.0	17,497.9	10,677.0	61.6	61.4	-108.13	-6,881.5	-192.9	433.9	311.6	122.24	3.549		
17,500.0	10,541.0	17,597.9	10,677.0	62.4	62.2	-108.13	-6,981.5	-192.3	433.9	309.9	123.92	3.501		
17,600.0	10,541.0	17,697.9	10,677.0	63.3	63.1	-108.13	-7,081.5	-191.7	433.8	308.2	125.60	3.454		

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #804H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10194-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
17,700.0	10,541.0	17,797.9	10,677.0	64.1	63.9	-108.13	-108.13	-7,181.5	-191.1	433.8	306.6	127.28	3.408	
17,800.0	10,541.0	17,897.9	10,677.0	65.0	64.8	-108.13	-108.13	-7,281.5	-190.4	433.8	304.9	128.96	3.364	
17,900.0	10,541.0	17,997.9	10,677.0	65.8	65.6	-108.13	-108.13	-7,381.5	-189.8	433.8	303.2	130.65	3.321	
18,000.0	10,541.0	18,097.9	10,677.0	66.7	66.5	-108.13	-108.13	-7,481.5	-189.2	433.8	301.5	132.33	3.278	
18,100.0	10,541.0	18,197.9	10,677.0	67.5	67.4	-108.13	-108.13	-7,581.5	-188.6	433.8	299.8	134.01	3.237	
18,200.0	10,541.0	18,297.9	10,677.0	68.4	68.2	-108.13	-108.13	-7,681.5	-187.9	433.8	298.1	135.70	3.197	
18,300.0	10,541.0	18,397.9	10,677.0	69.2	69.1	-108.14	-108.14	-7,781.5	-187.3	433.8	296.4	137.38	3.157	
18,400.0	10,541.0	18,497.9	10,677.0	70.1	69.9	-108.14	-108.14	-7,881.5	-186.7	433.8	294.7	139.07	3.119	
18,500.0	10,541.0	18,597.9	10,677.0	70.9	70.8	-108.14	-108.14	-7,981.5	-186.1	433.8	293.0	140.76	3.082	
18,600.0	10,541.0	18,697.9	10,677.0	71.8	71.6	-108.14	-108.14	-8,081.5	-185.4	433.8	291.3	142.44	3.045	
18,700.0	10,541.0	18,797.9	10,677.0	72.6	72.5	-108.14	-108.14	-8,181.5	-184.8	433.7	289.6	144.13	3.009	
18,800.0	10,541.0	18,897.9	10,677.0	73.5	73.3	-108.14	-108.14	-8,281.4	-184.2	433.7	287.9	145.82	2.974	
18,900.0	10,541.0	18,997.9	10,677.0	74.3	74.2	-108.14	-108.14	-8,381.4	-183.6	433.7	286.2	147.51	2.940	
19,000.0	10,541.0	19,097.9	10,677.0	75.2	75.0	-108.14	-108.14	-8,481.4	-182.9	433.7	284.5	149.19	2.907	
19,100.0	10,541.0	19,197.9	10,677.0	76.0	75.9	-108.14	-108.14	-8,581.4	-182.3	433.7	282.8	150.88	2.874	
19,200.0	10,541.0	19,297.9	10,677.0	76.9	76.8	-108.14	-108.14	-8,681.4	-181.7	433.7	281.1	152.57	2.843	
19,300.0	10,541.0	19,397.9	10,677.0	77.8	77.6	-108.14	-108.14	-8,781.4	-181.1	433.7	279.4	154.26	2.811	
19,400.0	10,541.0	19,497.9	10,677.0	78.6	78.5	-108.14	-108.14	-8,881.4	-180.5	433.7	277.7	155.95	2.781	
19,500.0	10,541.0	19,597.9	10,677.0	79.5	79.3	-108.14	-108.14	-8,981.4	-179.8	433.7	276.0	157.64	2.751	
19,600.0	10,541.0	19,697.9	10,677.0	80.3	80.2	-108.14	-108.14	-9,081.4	-179.2	433.7	274.3	159.33	2.722	
19,700.0	10,541.0	19,797.9	10,677.0	81.2	81.0	-108.14	-108.14	-9,181.4	-178.6	433.6	272.6	161.03	2.693	
19,800.0	10,541.0	19,897.9	10,677.0	82.0	81.9	-108.14	-108.14	-9,281.4	-178.0	433.6	270.9	162.72	2.665	
19,900.0	10,541.0	19,997.9	10,677.0	82.9	82.7	-108.14	-108.14	-9,381.4	-177.3	433.6	269.2	164.41	2.637	
20,000.0	10,541.0	20,097.9	10,677.0	83.7	83.6	-108.14	-108.14	-9,481.4	-176.7	433.6	267.5	166.10	2.611	
20,100.0	10,541.0	20,197.9	10,677.0	84.6	84.5	-108.14	-108.14	-9,581.4	-176.1	433.6	265.8	167.79	2.584	
20,200.0	10,541.0	20,297.9	10,677.0	85.4	85.3	-108.14	-108.14	-9,681.4	-175.5	433.6	264.1	169.49	2.558	
20,300.0	10,541.0	20,397.9	10,677.0	86.3	86.2	-108.14	-108.14	-9,781.4	-174.8	433.6	262.4	171.18	2.533	
20,400.0	10,541.0	20,497.9	10,677.0	87.2	87.0	-108.14	-108.14	-9,881.4	-174.2	433.6	260.7	172.87	2.508	
20,500.0	10,541.0	20,597.9	10,677.0	88.0	87.9	-108.14	-108.14	-9,981.4	-173.6	433.6	259.0	174.57	2.484	
20,600.0	10,541.0	20,697.9	10,677.0	88.9	88.7	-108.14	-108.14	-10,081.4	-173.0	433.6	257.3	176.26	2.460	
20,700.0	10,541.0	20,797.9	10,677.0	89.7	89.6	-108.14	-108.14	-10,181.4	-172.4	433.6	255.6	177.96	2.436	
20,730.4	10,541.0	20,828.4	10,677.0	89.9	89.9	-108.14	-108.14	-10,211.8	-172.2	433.6	255.2	178.39	2.430 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-90.46	-0.2	-30.0	30.1					
100.0	100.0	99.0	99.0	3.0	3.0	-90.46	-0.2	-30.0	30.1	24.0	6.00	5.006		
200.0	200.0	199.0	199.0	3.0	3.0	-90.46	-0.2	-30.0	30.1	24.0	6.04	4.974		
300.0	300.0	299.0	299.0	3.0	3.1	-90.46	-0.2	-30.0	30.1	23.9	6.12	4.909		
400.0	400.0	399.0	399.0	3.0	3.2	-90.46	-0.2	-30.0	30.1	23.8	6.24	4.814		
500.0	500.0	499.0	499.0	3.1	3.4	-90.46	-0.2	-30.0	30.1	23.7	6.40	4.696		
600.0	600.0	599.0	599.0	3.1	3.6	-90.46	-0.2	-30.0	30.1	23.5	6.59	4.562		
700.0	700.0	699.0	699.0	3.1	3.8	-90.46	-0.2	-30.0	30.1	23.2	6.80	4.418		
800.0	800.0	799.0	799.0	3.2	4.0	-90.46	-0.2	-30.0	30.1	23.0	7.04	4.269		
900.0	900.0	899.0	899.0	3.2	4.2	-90.46	-0.2	-30.0	30.1	22.8	7.30	4.118		
1,000.0	1,000.0	999.0	999.0	3.2	4.5	-90.46	-0.2	-30.0	30.1	22.5	7.57	3.968		
1,100.0	1,100.0	1,099.0	1,099.0	3.3	4.8	-90.46	-0.2	-30.0	30.1	22.2	7.86	3.822		
1,200.0	1,200.0	1,199.0	1,199.0	3.4	5.1	-90.46	-0.2	-30.0	30.1	21.9	8.16	3.681		
1,300.0	1,300.0	1,299.0	1,299.0	3.4	5.4	-90.46	-0.2	-30.0	30.1	21.6	8.47	3.546		
1,400.0	1,400.0	1,399.0	1,399.0	3.5	5.7	-90.46	-0.2	-30.0	30.1	21.3	8.79	3.417		
1,500.0	1,500.0	1,499.0	1,499.0	3.5	6.0	-90.46	-0.2	-30.0	30.1	20.9	9.12	3.294		
1,600.0	1,600.0	1,599.0	1,599.0	3.6	6.3	-90.46	-0.2	-30.0	30.1	20.6	9.46	3.177		
1,700.0	1,700.0	1,699.0	1,699.0	3.7	6.6	-90.46	-0.2	-30.0	30.1	20.3	9.80	3.067		
1,800.0	1,800.0	1,799.0	1,799.0	3.8	6.9	-90.46	-0.2	-30.0	30.1	19.9	10.15	2.962		
1,900.0	1,900.0	1,899.0	1,899.0	3.9	7.2	-90.46	-0.2	-30.0	30.1	19.6	10.50	2.863		
2,000.0	2,000.0	1,999.0	1,999.0	3.9	7.6	-90.46	-0.2	-30.0	30.1	19.2	10.85	2.769		
2,100.0	2,100.0	2,099.0	2,099.0	4.0	7.9	-90.46	-0.2	-30.0	30.1	18.8	11.21	2.680		
2,200.0	2,200.0	2,199.0	2,199.0	4.1	8.2	-90.46	-0.2	-30.0	30.1	18.5	11.58	2.596		
2,300.0	2,300.0	2,299.0	2,299.0	4.2	8.6	-90.46	-0.2	-30.0	30.1	18.1	11.94	2.516		
2,400.0	2,400.0	2,399.0	2,399.0	4.3	8.9	-90.46	-0.2	-30.0	30.1	17.7	12.31	2.441		
2,500.0	2,500.0	2,499.0	2,499.0	4.4	9.2	-90.46	-0.2	-30.0	30.1	17.4	12.68	2.369		
2,566.5	2,566.5	2,564.9	2,564.9	4.4	9.5	-12.93	-0.2	-30.8	30.0	17.1	12.92	2.324 CC		
2,600.0	2,600.0	2,598.0	2,598.0	4.5	9.6	-13.31	-0.2	-31.7	30.0	17.0	13.04	2.304		
2,700.0	2,699.8	2,696.9	2,696.8	4.5	9.9	-15.39	-0.2	-36.8	30.1	16.7	13.38	2.250		
2,800.0	2,799.5	2,795.9	2,795.3	4.6	10.2	-18.80	-0.2	-45.3	30.3	16.6	13.72	2.212 ES		
2,850.0	2,849.1	2,845.3	2,844.5	4.6	10.4	-20.99	-0.2	-50.8	30.6	16.7	13.88	2.201 SF		
2,900.0	2,898.8	2,894.8	2,893.5	4.6	10.5	-23.15	-0.2	-57.2	31.3	17.2	14.05	2.225		
3,000.0	2,998.0	2,994.5	2,992.3	4.7	10.9	-26.60	-0.2	-71.5	34.2	19.7	14.42	2.370		
3,100.0	3,097.3	3,094.5	3,091.2	4.7	11.2	-29.48	-0.2	-85.8	37.2	22.4	14.80	2.516		
3,200.0	3,196.5	3,194.4	3,190.1	4.8	11.5	-31.91	-0.2	-100.1	40.4	25.2	15.18	2.659		
3,300.0	3,295.8	3,294.4	3,289.0	4.8	11.9	-33.99	-0.2	-114.5	43.6	28.0	15.57	2.799		
3,400.0	3,395.0	3,394.3	3,387.9	4.9	12.2	-35.79	-0.2	-128.8	46.8	30.9	15.96	2.935		
3,500.0	3,494.3	3,494.2	3,486.8	5.0	12.6	-37.35	-0.2	-143.2	50.1	33.8	16.35	3.067		
3,600.0	3,593.5	3,594.2	3,585.7	5.1	12.9	-38.71	-0.2	-157.5	53.5	36.7	16.74	3.193		
3,700.0	3,692.8	3,694.1	3,684.6	5.1	13.3	-39.92	-0.2	-171.8	56.8	39.7	17.13	3.316		
3,800.0	3,792.0	3,794.0	3,783.5	5.2	13.6	-40.99	-0.2	-186.2	60.2	42.7	17.53	3.433		
3,900.0	3,891.3	3,894.0	3,882.4	5.3	14.0	-41.94	-0.2	-200.5	63.6	45.6	17.93	3.546		
4,000.0	3,990.6	3,993.9	3,981.3	5.4	14.3	-42.80	-0.2	-214.9	67.0	48.7	18.33	3.654		
4,100.0	4,089.8	4,093.8	4,080.2	5.4	14.7	-43.58	-0.2	-229.2	70.4	51.7	18.74	3.758		
4,200.0	4,189.1	4,193.8	4,179.1	5.5	15.0	-44.28	-0.2	-243.5	73.9	54.7	19.15	3.857		
4,300.0	4,288.3	4,293.7	4,278.0	5.6	15.4	-44.92	-0.2	-257.9	77.3	57.7	19.56	3.953		
4,400.0	4,387.6	4,393.7	4,376.9	5.7	15.7	-45.51	-0.2	-272.2	80.8	60.8	19.97	4.044		
4,500.0	4,486.8	4,493.6	4,475.8	5.8	16.1	-46.05	-0.2	-286.5	84.2	63.8	20.39	4.131		
4,600.0	4,586.1	4,593.5	4,574.7	5.9	16.4	-46.54	-0.2	-300.9	87.7	66.9	20.80	4.215		
4,700.0	4,685.3	4,693.5	4,673.6	6.0	16.8	-47.00	-0.2	-315.2	91.2	69.9	21.22	4.296		
4,800.0	4,784.6	4,793.4	4,772.5	6.1	17.2	-47.43	-0.2	-329.6	94.6	73.0	21.65	4.372		

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation (usft)	Warning
							+N/-S (usft)	+E/-W (usft)			Between Ellipses (usft)	Separation Factor	
4,900.0	4,883.8	4,893.3	4,871.4	6.2	17.5	-47.82	-0.2	-343.9			98.1	76.1	4.446
5,000.0	4,983.1	4,993.3	4,970.3	6.3	17.9	-48.19	-0.2	-358.2			101.6	79.1	4.517
5,100.0	5,082.4	5,093.2	5,069.2	6.4	18.2	-48.53	-0.2	-372.6			105.1	82.2	4.584
5,200.0	5,181.6	5,193.2	5,168.1	6.5	18.6	-48.85	-0.2	-386.9			108.6	85.3	4.649
5,300.0	5,280.9	5,293.1	5,267.0	6.6	19.0	-49.15	-0.2	-401.3			112.1	88.3	4.711
5,400.0	5,380.1	5,393.0	5,365.9	6.7	19.3	-49.43	-0.2	-415.6			115.6	91.4	4.771
5,500.0	5,479.4	5,493.0	5,464.8	6.8	19.7	-49.70	-0.2	-429.9			119.1	94.5	4.828
5,600.0	5,578.6	5,592.9	5,563.7	6.9	20.0	-49.95	-0.2	-444.3			122.6	97.5	4.883
5,700.0	5,677.9	5,692.8	5,662.7	7.0	20.4	-50.19	-0.2	-458.6			126.2	100.6	4.936
5,800.0	5,777.1	5,792.8	5,761.6	7.1	20.8	-50.41	-0.2	-472.9			129.7	103.7	4.986
5,900.0	5,876.4	5,892.7	5,860.5	7.2	21.1	-50.62	-0.2	-487.3			133.2	106.7	5.035
6,000.0	5,975.7	5,992.7	5,959.4	7.3	21.5	-50.82	-0.2	-501.6			136.7	109.8	5.082
6,100.0	6,074.9	6,092.6	6,058.3	7.5	21.9	-51.01	-0.2	-516.0			140.2	112.9	5.126
6,200.0	6,174.2	6,192.5	6,157.2	7.6	22.2	-51.19	-0.2	-530.3			143.7	115.9	5.169
6,300.0	6,273.4	6,292.5	6,256.1	7.7	22.6	-51.37	-0.2	-544.6			147.3	119.0	5.211
6,400.0	6,372.7	6,392.4	6,355.0	7.8	23.0	-51.53	-0.2	-559.0			150.8	122.1	5.251
6,500.0	6,471.9	6,492.3	6,453.9	7.9	23.3	-51.69	-0.2	-573.3			154.3	125.1	5.289
6,600.0	6,571.2	6,592.3	6,552.8	8.0	23.7	-51.84	-0.2	-587.7			157.8	128.2	5.326
6,700.0	6,670.4	6,692.2	6,651.7	8.1	24.1	-51.98	-0.2	-602.0			161.4	131.3	5.361
6,800.0	6,769.7	6,792.1	6,750.6	8.3	24.4	-52.12	-0.2	-616.3			164.9	134.3	5.395
6,900.0	6,868.9	6,892.1	6,849.5	8.4	24.8	-52.25	-0.2	-630.7			168.4	137.4	5.428
7,000.0	6,968.2	6,992.0	6,948.4	8.5	25.2	-52.38	-0.2	-645.0			171.9	140.4	5.459
7,100.0	7,067.5	7,092.0	7,047.3	8.6	25.5	-52.50	-0.2	-659.3			175.5	143.5	5.490
7,200.0	7,166.7	7,191.9	7,146.2	8.7	25.9	-52.62	-0.2	-673.7			179.0	146.6	5.519
7,300.0	7,266.0	7,291.8	7,245.1	8.8	26.3	-52.73	-0.2	-688.0			182.5	149.6	5.547
7,400.0	7,365.2	7,391.8	7,344.0	9.0	26.6	-52.84	-0.2	-702.4			186.1	152.7	5.574
7,500.0	7,464.5	7,491.7	7,442.9	9.1	27.0	-52.94	-0.2	-716.7			189.6	155.7	5.601
7,600.0	7,563.7	7,591.6	7,541.8	9.2	27.4	-53.04	-0.2	-731.0			193.1	158.8	5.626
7,700.0	7,663.0	7,691.6	7,640.7	9.3	27.7	-53.14	-0.2	-745.4			196.7	161.9	5.650
7,800.0	7,762.2	7,791.5	7,739.6	9.4	28.1	-53.23	-0.2	-759.7			200.2	164.9	5.674
7,900.0	7,861.5	7,891.5	7,838.5	9.6	28.5	-53.32	-0.2	-774.1			203.7	168.0	5.696
7,953.0	7,914.1	7,944.5	7,891.0	9.6	28.7	-53.37	-0.2	-781.7			205.6	169.6	5.708
8,000.0	7,960.8	7,991.4	7,937.4	9.7	28.8	-53.35	-0.2	-788.4			207.5	171.3	5.725
8,100.0	8,060.4	8,091.2	8,036.2	9.8	29.2	-52.79	-0.2	-802.7			213.1	176.4	5.804
8,200.0	8,160.2	8,190.8	8,134.7	9.9	29.6	-51.59	-0.2	-817.0			220.8	183.6	5.942
8,303.0	8,263.3	8,293.0	8,235.9	10.0	30.0	-127.62	-0.2	-831.7			231.2	193.6	6.151
8,400.0	8,360.2	8,388.9	8,330.8	10.1	30.3	-125.62	-0.2	-845.4			242.5	204.5	6.381
8,500.0	8,460.2	8,487.9	8,428.8	10.2	30.7	-123.74	-0.2	-859.6			254.3	215.9	6.621
8,600.0	8,560.2	8,586.9	8,526.7	10.3	31.0	-122.03	-0.2	-873.8			266.4	227.6	6.861
8,700.0	8,660.2	8,685.8	8,624.7	10.4	31.4	-120.47	-0.2	-888.0			278.7	239.4	7.101
8,800.0	8,760.2	8,784.8	8,722.6	10.5	31.8	-119.05	-0.2	-902.2			291.2	251.5	7.341
8,900.0	8,860.2	8,883.8	8,820.6	10.6	32.1	-117.73	-0.2	-916.4			303.8	263.7	7.579
9,000.0	8,960.2	8,982.7	8,918.5	10.7	32.5	-116.53	-0.2	-930.6			316.6	276.1	7.815
9,100.0	9,060.2	9,081.7	9,016.4	10.8	32.9	-115.42	-0.2	-944.8			329.5	288.6	8.050
9,200.0	9,160.2	9,180.7	9,114.4	10.9	33.2	-114.39	-0.2	-959.0			342.6	301.2	8.282
9,300.0	9,260.2	9,279.6	9,212.3	11.0	33.6	-113.44	-0.2	-973.2			355.7	313.9	8.512
9,400.0	9,360.2	9,378.6	9,310.3	11.1	34.0	-112.55	-0.2	-987.4			368.9	326.7	8.739
9,500.0	9,460.2	9,477.5	9,408.2	11.2	34.3	-111.73	-0.2	-1,001.6			382.3	339.6	8.963
9,600.0	9,560.2	9,576.5	9,506.1	11.3	34.7	-110.96	-0.2	-1,015.8			395.6	352.6	9.184
9,700.0	9,660.2	9,675.5	9,604.1	11.4	35.1	-110.24	-0.2	-1,030.0			409.1	365.6	9.403
9,800.0	9,760.2	9,790.3	9,718.1	11.5	35.5	-109.57	-0.2	-1,044.2			420.7	376.8	9.573

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,860.2	9,906.2	9,833.5	11.6	35.9	-109.13	-0.2	-1,053.9	428.6	384.2	44.38	9.658		
10,000.0	9,960.2	10,022.7	9,949.9	11.7	36.3	-108.92	-0.2	-1,058.9	432.7	387.9	44.81	9.657		
10,103.3	10,063.5	10,135.3	10,062.5	11.8	36.7	-108.88	-0.2	-1,059.7	433.3	388.1	45.21	9.585		
10,125.0	10,085.2	10,157.0	10,084.2	11.8	36.8	71.56	-0.2	-1,059.7	433.2	387.9	45.28	9.565		
10,150.0	10,110.1	10,182.0	10,109.1	11.8	36.9	71.85	-0.2	-1,059.7	432.6	387.2	45.38	9.532		
10,175.0	10,135.0	10,206.8	10,134.0	11.8	36.9	72.34	-0.2	-1,059.7	431.6	386.1	45.48	9.490		
10,200.0	10,159.6	10,231.4	10,158.6	11.8	37.0	73.04	-0.2	-1,059.7	430.3	384.7	45.59	9.438		
10,225.0	10,183.9	10,255.3	10,182.5	11.8	37.1	73.93	-0.2	-1,059.7	428.7	382.9	45.71	9.377		
10,250.0	10,207.9	10,275.0	10,202.2	11.8	37.2	74.79	-0.6	-1,059.7	426.9	381.0	45.85	9.310		
10,275.0	10,231.5	10,294.5	10,221.6	11.8	37.2	75.68	-1.8	-1,059.7	425.1	379.1	45.99	9.243		
10,300.0	10,254.7	10,314.1	10,241.2	11.9	37.3	76.60	-3.9	-1,059.7	423.4	377.2	46.14	9.176		
10,325.0	10,277.3	10,334.0	10,260.8	11.9	37.4	77.56	-6.7	-1,059.6	421.7	375.4	46.28	9.111		
10,350.0	10,299.4	10,354.0	10,280.5	11.9	37.4	78.56	-10.4	-1,059.6	420.0	373.6	46.43	9.047		
10,375.0	10,320.8	10,375.0	10,300.9	11.9	37.5	79.62	-15.2	-1,059.6	418.5	371.9	46.57	8.986		
10,400.0	10,341.5	10,394.7	10,319.9	11.9	37.6	80.64	-20.4	-1,059.6	417.1	370.3	46.73	8.925		
10,425.0	10,361.4	10,415.4	10,339.6	12.0	37.6	81.72	-26.8	-1,059.5	415.7	368.9	46.88	8.869		
10,450.0	10,380.5	10,436.3	10,359.2	12.0	37.7	82.83	-34.1	-1,059.5	414.5	367.5	47.02	8.816		
10,475.0	10,398.8	10,457.5	10,378.7	12.0	37.7	83.96	-42.4	-1,059.4	413.5	366.3	47.17	8.766		
10,500.0	10,416.1	10,479.0	10,398.1	12.0	37.8	85.11	-51.7	-1,059.4	412.6	365.3	47.31	8.721		
10,525.0	10,432.5	10,500.9	10,417.4	12.1	37.9	86.27	-62.0	-1,059.3	411.9	364.4	47.45	8.680		
10,550.0	10,447.8	10,523.0	10,436.4	12.1	37.9	87.46	-73.3	-1,059.2	411.3	363.8	47.59	8.644		
10,575.0	10,462.1	10,545.6	10,455.2	12.1	38.0	88.66	-85.8	-1,059.2	411.0	363.3	47.72	8.614		
10,600.0	10,475.3	10,568.5	10,473.7	12.2	38.0	89.86	-99.3	-1,059.1	410.9	363.0	47.84	8.588		
10,602.6	10,476.7	10,570.9	10,475.6	12.2	38.0	89.99	-100.8	-1,059.1	410.9	363.0	47.85	8.586		
10,625.0	10,487.4	10,591.8	10,491.8	12.2	38.1	91.08	-114.0	-1,059.0	411.0	363.0	47.96	8.569		
10,650.0	10,498.3	10,615.6	10,509.6	12.2	38.1	92.30	-129.8	-1,058.9	411.3	363.2	48.07	8.555		
10,675.0	10,508.1	10,639.9	10,526.8	12.2	38.2	93.52	-146.9	-1,058.8	411.8	363.6	48.18	8.548		
10,700.0	10,516.6	10,664.6	10,543.5	12.3	38.2	94.75	-165.2	-1,058.7	412.5	364.3	48.27	8.547		
10,725.0	10,523.8	10,689.9	10,559.5	12.3	38.3	95.97	-184.8	-1,058.5	413.5	365.2	48.36	8.551		
10,750.0	10,529.8	10,715.8	10,574.9	12.3	38.3	97.19	-205.6	-1,058.4	414.7	366.3	48.43	8.563		
10,775.0	10,534.6	10,742.3	10,589.4	12.4	38.4	98.40	-227.8	-1,058.3	416.1	367.6	48.50	8.580		
10,800.0	10,538.0	10,769.5	10,602.9	12.4	38.4	99.59	-251.4	-1,058.1	417.7	369.1	48.55	8.603		
10,825.0	10,540.1	10,797.4	10,615.4	12.4	38.5	100.78	-276.3	-1,058.0	419.4	370.8	48.59	8.632		
10,850.0	10,541.0	10,826.0	10,626.7	12.5	38.5	101.95	-302.5	-1,057.8	421.3	372.7	48.62	8.666		
10,853.3	10,541.0	10,829.8	10,628.1	12.5	38.5	102.10	-306.1	-1,057.8	421.6	373.0	48.62	8.671		
10,900.0	10,541.0	10,886.3	10,645.2	12.5	38.6	104.37	-359.9	-1,057.5	425.0	376.4	48.66	8.735		
11,000.0	10,541.0	11,014.4	10,660.0	12.7	38.8	106.28	-486.7	-1,056.7	428.1	379.2	48.84	8.765		
11,100.0	10,541.0	11,114.4	10,660.0	12.9	38.9	106.28	-586.7	-1,056.0	428.1	378.8	49.31	8.682		
11,200.0	10,541.0	11,214.4	10,660.0	13.2	39.0	106.28	-686.7	-1,055.4	428.1	378.3	49.84	8.590		
11,300.0	10,541.0	11,314.4	10,660.0	13.6	39.2	106.28	-786.7	-1,054.8	428.1	377.7	50.43	8.489		
11,400.0	10,541.0	11,414.4	10,660.0	14.0	39.4	106.28	-886.7	-1,054.2	428.1	377.1	51.08	8.382		
11,500.0	10,541.0	11,514.4	10,660.0	14.5	39.6	106.28	-986.7	-1,053.6	428.1	376.4	51.77	8.270		
11,600.0	10,541.0	11,614.4	10,660.0	15.0	39.8	106.28	-1,086.7	-1,052.9	428.1	375.6	52.51	8.153		
11,700.0	10,541.0	11,714.4	10,660.0	15.6	40.0	106.28	-1,186.7	-1,052.3	428.2	374.9	53.30	8.033		
11,800.0	10,541.0	11,814.4	10,660.0	16.2	40.3	106.28	-1,286.7	-1,051.7	428.2	374.0	54.12	7.911		
11,900.0	10,541.0	11,914.4	10,660.0	16.9	40.5	106.28	-1,386.7	-1,051.1	428.2	373.2	54.99	7.787		
12,000.0	10,541.0	12,014.4	10,660.0	17.5	40.8	106.27	-1,486.7	-1,050.4	428.2	372.3	55.89	7.662		
12,100.0	10,541.0	12,114.4	10,660.0	18.2	41.1	106.27	-1,586.7	-1,049.8	428.2	371.4	56.82	7.536		
12,200.0	10,541.0	12,214.4	10,660.0	18.9	41.4	106.27	-1,686.7	-1,049.2	428.2	370.4	57.78	7.411		
12,300.0	10,541.0	12,314.4	10,660.0	19.6	41.7	106.27	-1,786.7	-1,048.6	428.2	369.4	58.78	7.286		
12,400.0	10,541.0	12,414.4	10,660.0	20.4	42.0	106.27	-1,886.7	-1,048.0	428.2	368.4	59.80	7.162		

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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)						
12,500.0	10,541.0	12,514.4	10,660.0	21.1	42.4	106.27	-1,986.7	-1,047.3	428.2	367.4	60.84	7.038		
12,600.0	10,541.0	12,614.4	10,660.0	21.9	42.7	106.27	-2,086.7	-1,046.7	428.3	366.3	61.92	6.917		
12,700.0	10,541.0	12,714.4	10,660.0	22.6	43.1	106.27	-2,186.7	-1,046.1	428.3	365.3	63.01	6.797		
12,800.0	10,541.0	12,814.4	10,660.0	23.4	43.5	106.27	-2,286.7	-1,045.5	428.3	364.1	64.13	6.678		
12,900.0	10,541.0	12,914.4	10,660.0	24.2	43.9	106.27	-2,386.7	-1,044.8	428.3	363.0	65.27	6.562		
13,000.0	10,541.0	13,014.4	10,660.0	25.0	44.3	106.27	-2,486.7	-1,044.2	428.3	361.9	66.43	6.448		
13,100.0	10,541.0	13,114.4	10,660.0	25.8	44.7	106.27	-2,586.7	-1,043.6	428.3	360.7	67.61	6.335		
13,200.0	10,541.0	13,214.4	10,660.0	26.5	45.2	106.27	-2,686.7	-1,043.0	428.3	359.5	68.80	6.225		
13,300.0	10,541.0	13,314.4	10,660.0	27.3	45.6	106.27	-2,786.7	-1,042.4	428.3	358.3	70.02	6.117		
13,400.0	10,541.0	13,414.4	10,660.0	28.1	46.1	106.27	-2,886.7	-1,041.7	428.3	357.1	71.25	6.012		
13,500.0	10,541.0	13,514.4	10,660.0	29.0	46.5	106.27	-2,986.7	-1,041.1	428.4	355.9	72.50	5.908		
13,600.0	10,541.0	13,614.4	10,660.0	29.8	47.0	106.27	-3,086.7	-1,040.5	428.4	354.6	73.76	5.807		
13,700.0	10,541.0	13,714.4	10,660.0	30.6	47.5	106.27	-3,186.7	-1,039.9	428.4	353.3	75.04	5.708		
13,800.0	10,541.0	13,814.4	10,660.0	31.4	48.0	106.27	-3,286.7	-1,039.2	428.4	352.0	76.34	5.612		
13,900.0	10,541.0	13,914.4	10,660.0	32.2	48.5	106.27	-3,386.7	-1,038.6	428.4	350.8	77.64	5.518		
14,000.0	10,541.0	14,014.4	10,660.0	33.0	49.1	106.27	-3,486.7	-1,038.0	428.4	349.4	78.96	5.425		
14,100.0	10,541.0	14,114.4	10,660.0	33.8	49.6	106.27	-3,586.7	-1,037.4	428.4	348.1	80.29	5.336		
14,200.0	10,541.0	14,214.4	10,660.0	34.7	50.1	106.27	-3,686.7	-1,036.8	428.4	346.8	81.64	5.248		
14,300.0	10,541.0	14,314.4	10,660.0	35.5	50.7	106.27	-3,786.7	-1,036.1	428.4	345.4	82.99	5.162		
14,400.0	10,541.0	14,414.4	10,660.0	36.3	51.2	106.27	-3,886.7	-1,035.5	428.4	344.1	84.36	5.079		
14,500.0	10,541.0	14,514.4	10,660.0	37.1	51.8	106.26	-3,986.7	-1,034.9	428.5	342.7	85.74	4.997		
14,600.0	10,541.0	14,614.4	10,660.0	38.0	52.4	106.26	-4,086.7	-1,034.3	428.5	341.3	87.13	4.918		
14,700.0	10,541.0	14,714.4	10,660.0	38.8	53.0	106.26	-4,186.7	-1,033.6	428.5	340.0	88.52	4.840		
14,800.0	10,541.0	14,814.4	10,660.0	39.6	53.5	106.26	-4,286.7	-1,033.0	428.5	338.6	89.93	4.765		
14,900.0	10,541.0	14,914.4	10,660.0	40.5	54.1	106.26	-4,386.7	-1,032.4	428.5	337.2	91.35	4.691		
15,000.0	10,541.0	15,014.4	10,660.0	41.3	54.7	106.26	-4,486.7	-1,031.8	428.5	335.7	92.77	4.619		
15,100.0	10,541.0	15,114.4	10,660.0	42.1	55.4	106.26	-4,586.7	-1,031.2	428.5	334.3	94.20	4.549		
15,200.0	10,541.0	15,214.4	10,660.0	43.0	56.0	106.26	-4,686.6	-1,030.5	428.5	332.9	95.65	4.480		
15,300.0	10,541.0	15,314.4	10,660.0	43.8	56.6	106.26	-4,786.6	-1,029.9	428.5	331.4	97.09	4.414		
15,400.0	10,541.0	15,414.4	10,660.0	44.7	57.2	106.26	-4,886.6	-1,029.3	428.6	330.0	98.55	4.349		
15,500.0	10,541.0	15,514.4	10,660.0	45.5	57.9	106.26	-4,986.6	-1,028.7	428.6	328.5	100.02	4.285		
15,600.0	10,541.0	15,614.4	10,660.0	46.3	58.5	106.26	-5,086.6	-1,028.1	428.6	327.1	101.49	4.223		
15,700.0	10,541.0	15,714.4	10,660.0	47.2	59.1	106.26	-5,186.6	-1,027.4	428.6	325.6	102.96	4.162		
15,800.0	10,541.0	15,814.4	10,660.0	48.0	59.8	106.26	-5,286.6	-1,026.8	428.6	324.1	104.45	4.103		
15,900.0	10,541.0	15,914.4	10,660.0	48.9	60.5	106.26	-5,386.6	-1,026.2	428.6	322.7	105.94	4.046		
16,000.0	10,541.0	16,014.4	10,660.0	49.7	61.1	106.26	-5,486.6	-1,025.6	428.6	321.2	107.43	3.990		
16,100.0	10,541.0	16,114.4	10,660.0	50.6	61.8	106.26	-5,586.6	-1,024.9	428.6	319.7	108.93	3.935		
16,200.0	10,541.0	16,214.4	10,660.0	51.4	62.5	106.26	-5,686.6	-1,024.3	428.6	318.2	110.44	3.881		
16,300.0	10,541.0	16,314.4	10,660.0	52.2	63.1	106.26	-5,786.6	-1,023.7	428.6	316.7	111.95	3.829		
16,400.0	10,541.0	16,414.4	10,660.0	53.1	63.8	106.26	-5,886.6	-1,023.1	428.7	315.2	113.47	3.778		
16,500.0	10,541.0	16,514.4	10,660.0	53.9	64.5	106.26	-5,986.6	-1,022.5	428.7	313.7	115.00	3.728		
16,600.0	10,541.0	16,614.4	10,660.0	54.8	65.2	106.26	-6,086.6	-1,021.8	428.7	312.2	116.52	3.679		
16,700.0	10,541.0	16,714.4	10,660.0	55.6	65.9	106.26	-6,186.6	-1,021.2	428.7	310.6	118.06	3.631		
16,800.0	10,541.0	16,814.4	10,660.0	56.5	66.6	106.26	-6,286.6	-1,020.6	428.7	309.1	119.59	3.585		
16,900.0	10,541.0	16,914.4	10,660.0	57.3	67.3	106.25	-6,386.6	-1,020.0	428.7	307.6	121.13	3.539		
17,000.0	10,541.0	17,014.4	10,660.0	58.2	68.0	106.25	-6,486.6	-1,019.3	428.7	306.0	122.68	3.495		
17,100.0	10,541.0	17,114.4	10,660.0	59.0	68.7	106.25	-6,586.6	-1,018.7	428.7	304.5	124.23	3.451		
17,200.0	10,541.0	17,214.4	10,660.0	59.9	69.4	106.25	-6,686.6	-1,018.1	428.7	303.0	125.78	3.409		
17,300.0	10,541.0	17,314.4	10,660.0	60.7	70.1	106.25	-6,786.6	-1,017.5	428.8	301.4	127.34	3.367		
17,400.0	10,541.0	17,414.4	10,660.0	61.6	70.8	106.25	-6,886.6	-1,016.9	428.8	299.9	128.90	3.326		
17,500.0	10,541.0	17,514.4	10,660.0	62.4	71.6	106.25	-6,986.6	-1,016.2	428.8	298.3	130.46	3.287		

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance					
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
									(usft)	(usft)	(usft)				
17,600.0	10,541.0	17,614.4	10,660.0	63.3	72.3	106.25	-7,086.6	-1,015.6	428.8	296.8	132.03	3.248			
17,700.0	10,541.0	17,714.4	10,660.0	64.1	73.0	106.25	-7,186.6	-1,015.0	428.8	295.2	133.60	3.210			
17,800.0	10,541.0	17,814.4	10,660.0	65.0	73.7	106.25	-7,286.6	-1,014.4	428.8	293.6	135.18	3.172			
17,900.0	10,541.0	17,914.4	10,660.0	65.8	74.5	106.25	-7,386.6	-1,013.7	428.8	292.1	136.75	3.136			
18,000.0	10,541.0	18,014.4	10,660.0	66.7	75.2	106.25	-7,486.6	-1,013.1	428.8	290.5	138.33	3.100			
18,100.0	10,541.0	18,114.4	10,660.0	67.5	76.0	106.25	-7,586.6	-1,012.5	428.8	288.9	139.92	3.065			
18,200.0	10,541.0	18,214.4	10,660.0	68.4	76.7	106.25	-7,686.6	-1,011.9	428.8	287.3	141.50	3.031			
18,300.0	10,541.0	18,314.4	10,660.0	69.2	77.4	106.25	-7,786.6	-1,011.3	428.9	285.8	143.09	2.997			
18,400.0	10,541.0	18,414.4	10,660.0	70.1	78.2	106.25	-7,886.6	-1,010.6	428.9	284.2	144.68	2.964			
18,500.0	10,541.0	18,514.4	10,660.0	70.9	78.9	106.25	-7,986.6	-1,010.0	428.9	282.6	146.28	2.932			
18,600.0	10,541.0	18,614.4	10,660.0	71.8	79.7	106.25	-8,086.6	-1,009.4	428.9	281.0	147.87	2.900			
18,700.0	10,541.0	18,714.4	10,660.0	72.6	80.4	106.25	-8,186.6	-1,008.8	428.9	279.4	149.47	2.869			
18,800.0	10,541.0	18,814.4	10,660.0	73.5	81.2	106.25	-8,286.6	-1,008.1	428.9	277.8	151.07	2.839			
18,900.0	10,541.0	18,914.4	10,660.0	74.3	81.9	106.25	-8,386.6	-1,007.5	428.9	276.2	152.68	2.809			
19,000.0	10,541.0	19,014.4	10,660.0	75.2	82.7	106.25	-8,486.6	-1,006.9	428.9	274.6	154.28	2.780			
19,100.0	10,541.0	19,114.4	10,660.0	76.0	83.5	106.25	-8,586.6	-1,006.3	428.9	273.1	155.89	2.752			
19,200.0	10,541.0	19,214.4	10,660.0	76.9	84.2	106.25	-8,686.6	-1,005.7	429.0	271.5	157.50	2.723			
19,300.0	10,541.0	19,314.4	10,660.0	77.8	85.0	106.24	-8,786.6	-1,005.0	429.0	269.9	159.11	2.696			
19,400.0	10,541.0	19,414.4	10,660.0	78.6	85.8	106.24	-8,886.6	-1,004.4	429.0	268.2	160.73	2.669			
19,500.0	10,541.0	19,514.4	10,660.0	79.5	86.5	106.24	-8,986.6	-1,003.8	429.0	266.6	162.35	2.642			
19,600.0	10,541.0	19,614.4	10,660.0	80.3	87.3	106.24	-9,086.6	-1,003.2	429.0	265.0	163.96	2.616			
19,700.0	10,541.0	19,714.4	10,660.0	81.2	88.1	106.24	-9,186.6	-1,002.5	429.0	263.4	165.58	2.591			
19,800.0	10,541.0	19,814.4	10,660.0	82.0	88.8	106.24	-9,286.6	-1,001.9	429.0	261.8	167.20	2.566			
19,900.0	10,541.0	19,914.4	10,660.0	82.9	89.6	106.24	-9,386.6	-1,001.3	429.0	260.2	168.83	2.541			
20,000.0	10,541.0	20,014.4	10,660.0	83.7	90.4	106.24	-9,486.6	-1,000.7	429.0	258.6	170.45	2.517			
20,100.0	10,541.0	20,114.4	10,660.0	84.6	91.2	106.24	-9,586.6	-1,000.1	429.1	257.0	172.08	2.493			
20,200.0	10,541.0	20,214.4	10,660.0	85.4	92.0	106.24	-9,686.6	-999.4	429.1	255.4	173.71	2.470			
20,300.0	10,541.0	20,314.4	10,660.0	86.3	92.7	106.24	-9,786.6	-998.8	429.1	253.7	175.34	2.447			
20,400.0	10,541.0	20,414.4	10,660.0	87.2	93.5	106.24	-9,886.5	-998.2	429.1	252.1	176.97	2.425			
20,500.0	10,541.0	20,514.4	10,660.0	88.0	94.3	106.24	-9,986.5	-997.6	429.1	250.5	178.60	2.403			
20,600.0	10,541.0	20,614.4	10,660.0	88.9	95.1	106.24	-10,086.5	-997.0	429.1	248.9	180.24	2.381			
20,700.0	10,541.0	20,714.4	10,660.0	89.7	95.9	106.24	-10,186.5	-996.3	429.1	247.2	181.87	2.359			
20,730.4	10,541.0	20,744.6	10,660.0	89.9	96.1	106.24	-10,216.8	-996.1	429.1	246.8	182.29	2.354			

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

10/12/2021 2:49:52PM

Page 24

COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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' @ 3178.0usft (P 84)

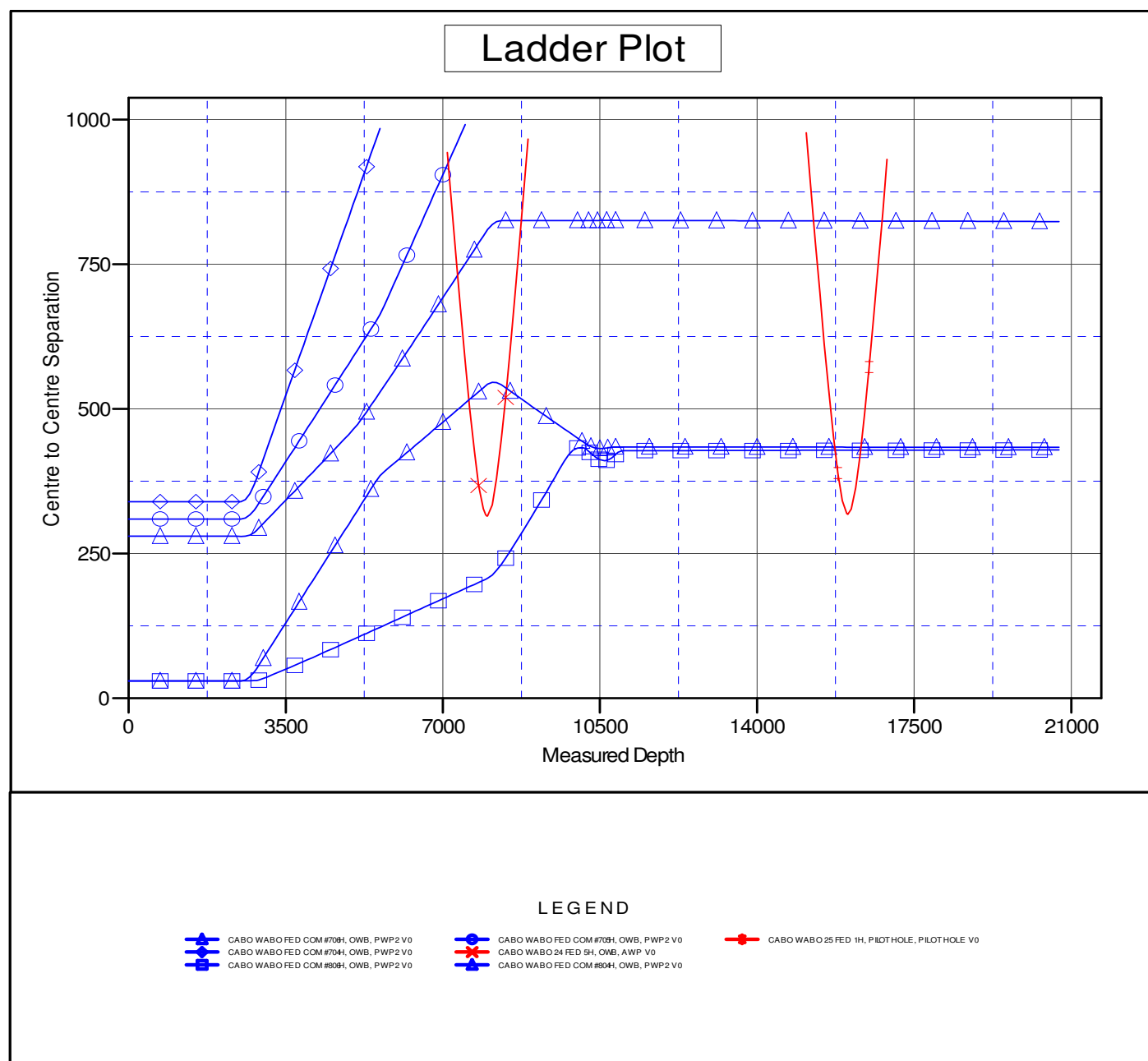
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #805H

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

10/12/2021 2:49:52PM

Page 25

COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #805H	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' @ 3178.0usft (P 84)

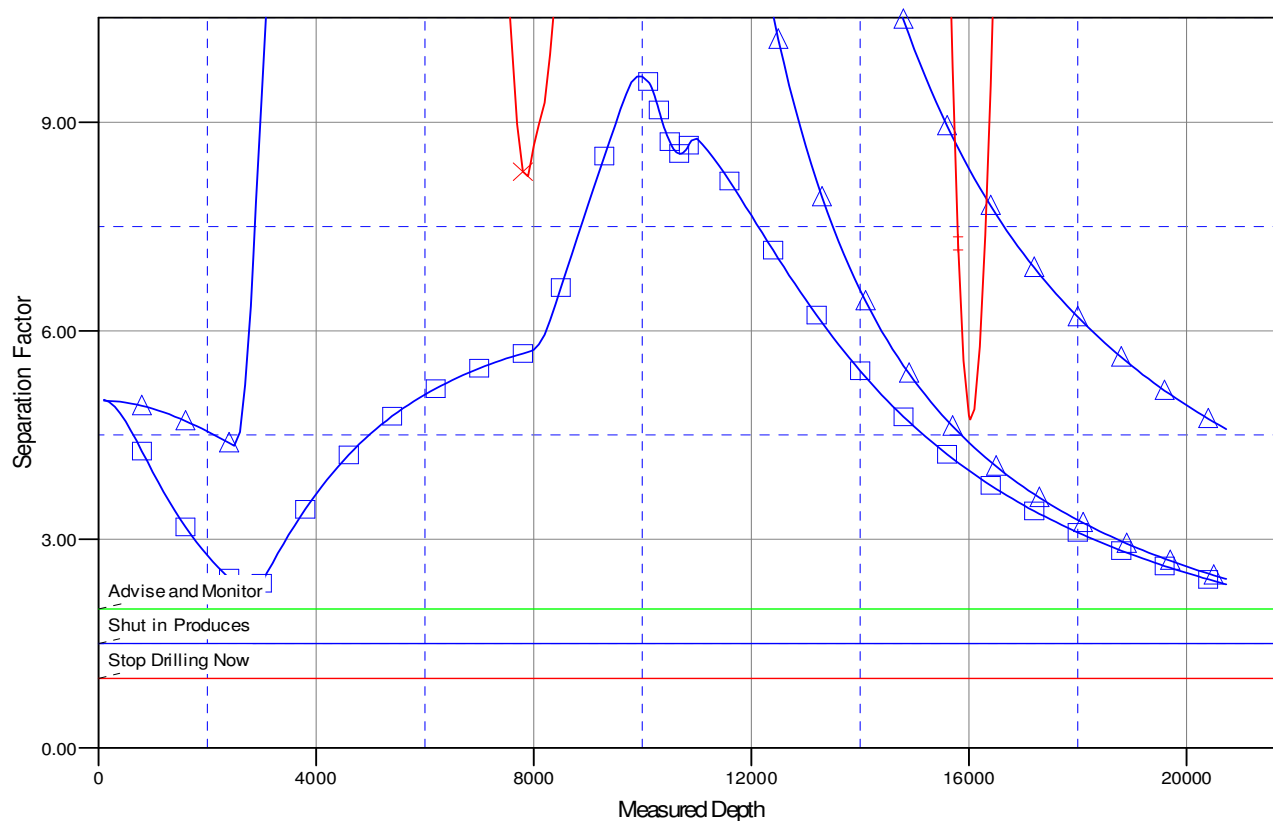
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #805H

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 #709H, OWB, PWP2 V0
 CABO WABO FED COM #704H, OWB, PWP2 V0
 CABO WABO FED COM #805H, OWB, PWP2 V0

CABO WABO FED COM #709H, OWB, PWP2 V0
 CABO WABO 24 FED SH, OWB, AWP V0
 CABO WABO FED COM #804H, OWB, PWP2 V0

CABO WABO 25 FED 1H, PILOT HOLE, PILOT HOLE V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #805H

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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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 #805H			
Well Position	+N/-S	0.0 usft	Northing:	408,349.39 usft
	+E/-W	0.0 usft	Easting:	621,279.86 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 7' 19.426 N
			Longitude:	103° 56' 29.698 W
			Ground Level:	3,153.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/12/2021	6.67	59.74	47,363.21073871

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	183.27	

Survey Tool Program	Date	10/12/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,103.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,103.0	20,729.8	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 #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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
Start Build 2.00									
2,600.0	2.00	282.16	2,600.0	0.4	-1.7	-0.3	2.00	2.00	0.00
2,700.0	4.00	282.16	2,699.8	1.5	-6.8	-1.1	2.00	2.00	0.00
2,800.0	6.00	282.16	2,799.5	3.3	-15.3	-2.4	2.00	2.00	0.00
2,850.0	7.00	282.16	2,849.1	4.5	-20.9	-3.3	2.00	2.00	0.00
Start 5103.0 hold at 2850.0 MD									
2,900.0	7.00	282.16	2,898.8	5.8	-26.8	-4.2	0.00	0.00	0.00
3,000.0	7.00	282.16	2,998.0	8.3	-38.7	-6.1	0.00	0.00	0.00
3,100.0	7.00	282.16	3,097.3	10.9	-50.7	-8.0	0.00	0.00	0.00
3,200.0	7.00	282.16	3,196.5	13.5	-62.6	-9.9	0.00	0.00	0.00
3,300.0	7.00	282.16	3,295.8	16.1	-74.5	-11.8	0.00	0.00	0.00
3,400.0	7.00	282.16	3,395.0	18.6	-86.4	-13.7	0.00	0.00	0.00
3,500.0	7.00	282.16	3,494.3	21.2	-98.3	-15.5	0.00	0.00	0.00
3,600.0	7.00	282.16	3,593.5	23.8	-110.2	-17.4	0.00	0.00	0.00
3,700.0	7.00	282.16	3,692.8	26.3	-122.1	-19.3	0.00	0.00	0.00
3,800.0	7.00	282.16	3,792.0	28.9	-134.1	-21.2	0.00	0.00	0.00
3,900.0	7.00	282.16	3,891.3	31.5	-146.0	-23.1	0.00	0.00	0.00
4,000.0	7.00	282.16	3,990.6	34.0	-157.9	-25.0	0.00	0.00	0.00
4,100.0	7.00	282.16	4,089.8	36.6	-169.8	-26.8	0.00	0.00	0.00
4,200.0	7.00	282.16	4,189.1	39.2	-181.7	-28.7	0.00	0.00	0.00
4,300.0	7.00	282.16	4,288.3	41.7	-193.6	-30.6	0.00	0.00	0.00
4,400.0	7.00	282.16	4,387.6	44.3	-205.5	-32.5	0.00	0.00	0.00
4,500.0	7.00	282.16	4,486.8	46.9	-217.4	-34.4	0.00	0.00	0.00
4,600.0	7.00	282.16	4,586.1	49.4	-229.4	-36.2	0.00	0.00	0.00
4,700.0	7.00	282.16	4,685.3	52.0	-241.3	-38.1	0.00	0.00	0.00
4,800.0	7.00	282.16	4,784.6	54.6	-253.2	-40.0	0.00	0.00	0.00
4,900.0	7.00	282.16	4,883.8	57.1	-265.1	-41.9	0.00	0.00	0.00
5,000.0	7.00	282.16	4,983.1	59.7	-277.0	-43.8	0.00	0.00	0.00
5,100.0	7.00	282.16	5,082.4	62.3	-288.9	-45.7	0.00	0.00	0.00
5,200.0	7.00	282.16	5,181.6	64.8	-300.8	-47.5	0.00	0.00	0.00
5,300.0	7.00	282.16	5,280.9	67.4	-312.8	-49.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	7.00	282.16	5,380.1	70.0	-324.7	-51.3	0.00	0.00	0.00
5,500.0	7.00	282.16	5,479.4	72.5	-336.6	-53.2	0.00	0.00	0.00
5,600.0	7.00	282.16	5,578.6	75.1	-348.5	-55.1	0.00	0.00	0.00
5,700.0	7.00	282.16	5,677.9	77.7	-360.4	-57.0	0.00	0.00	0.00
5,800.0	7.00	282.16	5,777.1	80.2	-372.3	-58.8	0.00	0.00	0.00
5,900.0	7.00	282.16	5,876.4	82.8	-384.2	-60.7	0.00	0.00	0.00
6,000.0	7.00	282.16	5,975.7	85.4	-396.1	-62.6	0.00	0.00	0.00
6,100.0	7.00	282.16	6,074.9	87.9	-408.1	-64.5	0.00	0.00	0.00
6,200.0	7.00	282.16	6,174.2	90.5	-420.0	-66.4	0.00	0.00	0.00
6,300.0	7.00	282.16	6,273.4	93.1	-431.9	-68.3	0.00	0.00	0.00
6,400.0	7.00	282.16	6,372.7	95.6	-443.8	-70.1	0.00	0.00	0.00
6,500.0	7.00	282.16	6,471.9	98.2	-455.7	-72.0	0.00	0.00	0.00
6,600.0	7.00	282.16	6,571.2	100.8	-467.6	-73.9	0.00	0.00	0.00
6,700.0	7.00	282.16	6,670.4	103.3	-479.5	-75.8	0.00	0.00	0.00
6,800.0	7.00	282.16	6,769.7	105.9	-491.5	-77.7	0.00	0.00	0.00
6,900.0	7.00	282.16	6,868.9	108.5	-503.4	-79.6	0.00	0.00	0.00
7,000.0	7.00	282.16	6,968.2	111.0	-515.3	-81.4	0.00	0.00	0.00
7,100.0	7.00	282.16	7,067.5	113.6	-527.2	-83.3	0.00	0.00	0.00
7,200.0	7.00	282.16	7,166.7	116.2	-539.1	-85.2	0.00	0.00	0.00
7,300.0	7.00	282.16	7,266.0	118.7	-551.0	-87.1	0.00	0.00	0.00
7,400.0	7.00	282.16	7,365.2	121.3	-562.9	-89.0	0.00	0.00	0.00
7,500.0	7.00	282.16	7,464.5	123.9	-574.9	-90.8	0.00	0.00	0.00
7,600.0	7.00	282.16	7,563.7	126.4	-586.8	-92.7	0.00	0.00	0.00
7,700.0	7.00	282.16	7,663.0	129.0	-598.7	-94.6	0.00	0.00	0.00
7,800.0	7.00	282.16	7,762.2	131.6	-610.6	-96.5	0.00	0.00	0.00
7,900.0	7.00	282.16	7,861.5	134.1	-622.5	-98.4	0.00	0.00	0.00
7,953.0	7.00	282.16	7,914.1	135.5	-628.8	-99.4	0.00	0.00	0.00
Start Drop -2.00									
8,000.0	6.06	282.16	7,960.8	136.6	-634.0	-100.2	2.00	-2.00	0.00
8,100.0	4.06	282.16	8,060.4	138.5	-642.7	-101.6	2.00	-2.00	0.00
8,200.0	2.06	282.16	8,160.2	139.6	-647.9	-102.4	2.00	-2.00	0.00
8,300.0	0.06	282.16	8,260.2	140.0	-649.7	-102.7	2.00	-2.00	0.00
8,303.0	0.00	0.00	8,263.3	140.0	-649.7	-102.7	2.00	-2.00	0.00
Start 1800.2 hold at 8303.0 MD									
8,400.0	0.00	0.00	8,360.2	140.0	-649.7	-102.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,460.2	140.0	-649.7	-102.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,560.2	140.0	-649.7	-102.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,660.2	140.0	-649.7	-102.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,760.2	140.0	-649.7	-102.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,860.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,960.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,060.2	140.0	-649.7	-102.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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)
9,200.0	0.00	0.00	9,160.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,260.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,360.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,460.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,560.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,660.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,760.2	140.0	-649.7	-102.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,860.2	140.0	-649.7	-102.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,960.2	140.0	-649.7	-102.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,060.2	140.0	-649.7	-102.7	0.00	0.00	0.00
10,103.3	0.00	0.00	10,063.5	140.0	-649.7	-102.7	0.00	0.00	0.00
Start DLS 12.00 TFO 179.64									
10,200.0	11.61	179.64	10,159.6	130.2	-649.6	-92.9	12.00	12.00	0.00
10,300.0	23.61	179.64	10,254.7	100.0	-649.4	-62.8	12.00	12.00	0.00
10,400.0	35.61	179.64	10,341.5	50.7	-649.1	-13.6	12.00	12.00	0.00
10,500.0	47.61	179.64	10,416.1	-15.5	-648.7	52.6	12.00	12.00	0.00
10,600.0	59.61	179.64	10,475.3	-95.9	-648.2	132.7	12.00	12.00	0.00
10,700.0	71.61	179.64	10,516.6	-186.8	-647.6	223.5	12.00	12.00	0.00
10,800.0	83.61	179.64	10,538.0	-284.3	-647.0	320.8	12.00	12.00	0.00
10,853.3	90.00	179.64	10,541.0	-337.5	-646.7	373.8	12.00	12.00	0.00
Start 9877.1 hold at 10853.3 MD									
10,900.0	90.00	179.64	10,541.0	-384.2	-646.4	420.5	0.00	0.00	0.00
11,000.0	90.00	179.64	10,541.0	-484.2	-645.7	520.3	0.00	0.00	0.00
11,100.0	90.00	179.64	10,541.0	-584.2	-645.1	620.1	0.00	0.00	0.00
11,200.0	90.00	179.64	10,541.0	-684.2	-644.5	719.9	0.00	0.00	0.00
11,300.0	90.00	179.64	10,541.0	-784.2	-643.8	819.7	0.00	0.00	0.00
11,400.0	90.00	179.64	10,541.0	-884.2	-643.2	919.4	0.00	0.00	0.00
11,500.0	90.00	179.64	10,541.0	-984.2	-642.6	1,019.2	0.00	0.00	0.00
11,600.0	90.00	179.64	10,541.0	-1,084.2	-642.0	1,119.0	0.00	0.00	0.00
11,700.0	90.00	179.64	10,541.0	-1,184.2	-641.3	1,218.8	0.00	0.00	0.00
11,800.0	90.00	179.64	10,541.0	-1,284.2	-640.7	1,318.6	0.00	0.00	0.00
11,900.0	90.00	179.64	10,541.0	-1,384.2	-640.1	1,418.4	0.00	0.00	0.00
12,000.0	90.00	179.64	10,541.0	-1,484.2	-639.4	1,518.2	0.00	0.00	0.00
12,100.0	90.00	179.64	10,541.0	-1,584.2	-638.8	1,618.0	0.00	0.00	0.00
12,200.0	90.00	179.64	10,541.0	-1,684.2	-638.2	1,717.8	0.00	0.00	0.00
12,300.0	90.00	179.64	10,541.0	-1,784.1	-637.5	1,817.6	0.00	0.00	0.00
12,400.0	90.00	179.64	10,541.0	-1,884.1	-636.9	1,917.4	0.00	0.00	0.00
12,500.0	90.00	179.64	10,541.0	-1,984.1	-636.3	2,017.2	0.00	0.00	0.00
12,600.0	90.00	179.64	10,541.0	-2,084.1	-635.6	2,117.0	0.00	0.00	0.00
12,700.0	90.00	179.64	10,541.0	-2,184.1	-635.0	2,216.8	0.00	0.00	0.00
12,800.0	90.00	179.64	10,541.0	-2,284.1	-634.4	2,316.6	0.00	0.00	0.00
12,900.0	90.00	179.64	10,541.0	-2,384.1	-633.7	2,416.4	0.00	0.00	0.00
13,000.0	90.00	179.64	10,541.0	-2,484.1	-633.1	2,516.2	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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)
13,100.0	90.00	179.64	10,541.0	-2,584.1	-632.5	2,616.0	0.00	0.00	0.00
13,200.0	90.00	179.64	10,541.0	-2,684.1	-631.8	2,715.8	0.00	0.00	0.00
13,300.0	90.00	179.64	10,541.0	-2,784.1	-631.2	2,815.6	0.00	0.00	0.00
13,400.0	90.00	179.64	10,541.0	-2,884.1	-630.6	2,915.4	0.00	0.00	0.00
13,500.0	90.00	179.64	10,541.0	-2,984.1	-629.9	3,015.2	0.00	0.00	0.00
13,600.0	90.00	179.64	10,541.0	-3,084.1	-629.3	3,115.0	0.00	0.00	0.00
13,700.0	90.00	179.64	10,541.0	-3,184.1	-628.7	3,214.8	0.00	0.00	0.00
13,800.0	90.00	179.64	10,541.0	-3,284.1	-628.0	3,314.6	0.00	0.00	0.00
13,900.0	90.00	179.64	10,541.0	-3,384.1	-627.4	3,414.4	0.00	0.00	0.00
14,000.0	90.00	179.64	10,541.0	-3,484.1	-626.8	3,514.2	0.00	0.00	0.00
14,100.0	90.00	179.64	10,541.0	-3,584.1	-626.1	3,614.0	0.00	0.00	0.00
14,200.0	90.00	179.64	10,541.0	-3,684.1	-625.5	3,713.8	0.00	0.00	0.00
14,300.0	90.00	179.64	10,541.0	-3,784.1	-624.9	3,813.6	0.00	0.00	0.00
14,400.0	90.00	179.64	10,541.0	-3,884.1	-624.2	3,913.4	0.00	0.00	0.00
14,500.0	90.00	179.64	10,541.0	-3,984.1	-623.6	4,013.2	0.00	0.00	0.00
14,600.0	90.00	179.64	10,541.0	-4,084.1	-623.0	4,113.0	0.00	0.00	0.00
14,700.0	90.00	179.64	10,541.0	-4,184.1	-622.3	4,212.8	0.00	0.00	0.00
14,800.0	90.00	179.64	10,541.0	-4,284.1	-621.7	4,312.6	0.00	0.00	0.00
14,900.0	90.00	179.64	10,541.0	-4,384.1	-621.1	4,412.4	0.00	0.00	0.00
15,000.0	90.00	179.64	10,541.0	-4,484.1	-620.4	4,512.2	0.00	0.00	0.00
15,100.0	90.00	179.64	10,541.0	-4,584.1	-619.8	4,612.0	0.00	0.00	0.00
15,200.0	90.00	179.64	10,541.0	-4,684.1	-619.2	4,711.8	0.00	0.00	0.00
15,300.0	90.00	179.64	10,541.0	-4,784.1	-618.5	4,811.6	0.00	0.00	0.00
15,400.0	90.00	179.64	10,541.0	-4,884.1	-617.9	4,911.4	0.00	0.00	0.00
15,500.0	90.00	179.64	10,541.0	-4,984.1	-617.3	5,011.2	0.00	0.00	0.00
15,600.0	90.00	179.64	10,541.0	-5,084.1	-616.6	5,111.0	0.00	0.00	0.00
15,700.0	90.00	179.64	10,541.0	-5,184.1	-616.0	5,210.8	0.00	0.00	0.00
15,800.0	90.00	179.64	10,541.0	-5,284.1	-615.4	5,310.6	0.00	0.00	0.00
15,900.0	90.00	179.64	10,541.0	-5,384.1	-614.7	5,410.4	0.00	0.00	0.00
16,000.0	90.00	179.64	10,541.0	-5,484.1	-614.1	5,510.2	0.00	0.00	0.00
16,100.0	90.00	179.64	10,541.0	-5,584.1	-613.5	5,610.0	0.00	0.00	0.00
16,200.0	90.00	179.64	10,541.0	-5,684.1	-612.8	5,709.8	0.00	0.00	0.00
16,300.0	90.00	179.64	10,541.0	-5,784.1	-612.2	5,809.6	0.00	0.00	0.00
16,400.0	90.00	179.64	10,541.0	-5,884.1	-611.6	5,909.4	0.00	0.00	0.00
16,500.0	90.00	179.64	10,541.0	-5,984.1	-610.9	6,009.2	0.00	0.00	0.00
16,600.0	90.00	179.64	10,541.0	-6,084.1	-610.3	6,109.0	0.00	0.00	0.00
16,700.0	90.00	179.64	10,541.0	-6,184.1	-609.7	6,208.8	0.00	0.00	0.00
16,800.0	90.00	179.64	10,541.0	-6,284.1	-609.0	6,308.6	0.00	0.00	0.00
16,900.0	90.00	179.64	10,541.0	-6,384.1	-608.4	6,408.4	0.00	0.00	0.00
17,000.0	90.00	179.64	10,541.0	-6,484.1	-607.8	6,508.2	0.00	0.00	0.00
17,100.0	90.00	179.64	10,541.0	-6,584.1	-607.1	6,608.0	0.00	0.00	0.00
17,200.0	90.00	179.64	10,541.0	-6,684.1	-606.5	6,707.8	0.00	0.00	0.00
17,300.0	90.00	179.64	10,541.0	-6,784.0	-605.9	6,807.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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)
17,400.0	90.00	179.64	10,541.0	-6,884.0	-605.2	6,907.4	0.00	0.00	0.00
17,500.0	90.00	179.64	10,541.0	-6,984.0	-604.6	7,007.2	0.00	0.00	0.00
17,600.0	90.00	179.64	10,541.0	-7,084.0	-604.0	7,107.0	0.00	0.00	0.00
17,700.0	90.00	179.64	10,541.0	-7,184.0	-603.3	7,206.8	0.00	0.00	0.00
17,800.0	90.00	179.64	10,541.0	-7,284.0	-602.7	7,306.6	0.00	0.00	0.00
17,900.0	90.00	179.64	10,541.0	-7,384.0	-602.1	7,406.4	0.00	0.00	0.00
18,000.0	90.00	179.64	10,541.0	-7,484.0	-601.4	7,506.2	0.00	0.00	0.00
18,100.0	90.00	179.64	10,541.0	-7,584.0	-600.8	7,606.0	0.00	0.00	0.00
18,200.0	90.00	179.64	10,541.0	-7,684.0	-600.2	7,705.8	0.00	0.00	0.00
18,300.0	90.00	179.64	10,541.0	-7,784.0	-599.5	7,805.6	0.00	0.00	0.00
18,400.0	90.00	179.64	10,541.0	-7,884.0	-598.9	7,905.4	0.00	0.00	0.00
18,500.0	90.00	179.64	10,541.0	-7,984.0	-598.3	8,005.2	0.00	0.00	0.00
18,600.0	90.00	179.64	10,541.0	-8,084.0	-597.6	8,105.0	0.00	0.00	0.00
18,700.0	90.00	179.64	10,541.0	-8,184.0	-597.0	8,204.8	0.00	0.00	0.00
18,800.0	90.00	179.64	10,541.0	-8,284.0	-596.4	8,304.6	0.00	0.00	0.00
18,900.0	90.00	179.64	10,541.0	-8,384.0	-595.7	8,404.4	0.00	0.00	0.00
19,000.0	90.00	179.64	10,541.0	-8,484.0	-595.1	8,504.2	0.00	0.00	0.00
19,100.0	90.00	179.64	10,541.0	-8,584.0	-594.5	8,604.0	0.00	0.00	0.00
19,200.0	90.00	179.64	10,541.0	-8,684.0	-593.8	8,703.7	0.00	0.00	0.00
19,300.0	90.00	179.64	10,541.0	-8,784.0	-593.2	8,803.5	0.00	0.00	0.00
19,400.0	90.00	179.64	10,541.0	-8,884.0	-592.6	8,903.3	0.00	0.00	0.00
19,500.0	90.00	179.64	10,541.0	-8,984.0	-591.9	9,003.1	0.00	0.00	0.00
19,600.0	90.00	179.64	10,541.0	-9,084.0	-591.3	9,102.9	0.00	0.00	0.00
19,700.0	90.00	179.64	10,541.0	-9,184.0	-590.7	9,202.7	0.00	0.00	0.00
19,800.0	90.00	179.64	10,541.0	-9,284.0	-590.0	9,302.5	0.00	0.00	0.00
19,900.0	90.00	179.64	10,541.0	-9,384.0	-589.4	9,402.3	0.00	0.00	0.00
20,000.0	90.00	179.64	10,541.0	-9,484.0	-588.8	9,502.1	0.00	0.00	0.00
20,100.0	90.00	179.64	10,541.0	-9,584.0	-588.1	9,601.9	0.00	0.00	0.00
20,200.0	90.00	179.64	10,541.0	-9,684.0	-587.5	9,701.7	0.00	0.00	0.00
20,300.0	90.00	179.64	10,541.0	-9,784.0	-586.9	9,801.5	0.00	0.00	0.00
20,400.0	90.00	179.64	10,541.0	-9,884.0	-586.2	9,901.3	0.00	0.00	0.00
20,500.0	90.00	179.64	10,541.0	-9,984.0	-585.6	10,001.1	0.00	0.00	0.00
20,600.0	90.00	179.64	10,541.0	-10,084.0	-585.0	10,100.9	0.00	0.00	0.00
20,700.0	90.00	179.64	10,541.0	-10,184.0	-584.3	10,200.7	0.00	0.00	0.00
20,730.4	90.00	179.64	10,541.0	-10,214.4	-584.1	10,231.1	0.00	0.00	0.00
TD at 20730.4									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #805H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3178.0usft (P 84)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3178.0usft (P 84)
Well:	CABO WABO FED COM #805H	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 44.9usft at 10654.4usft MD (10500.1 TVD, -144.3 N, -647.9 E) - Circle (radius 50.0)	0.00	0.00	10,541.0	-125.7	-647.7	408,223.64	620,632.16	32° 7' 18.205 N	103° 56' 37.235 W
LTP (CABO WABO FI - plan misses target center by 0.4usft at 20600.4usft MD (10541.0 TVD, -10084.4 N, -585.0 E) - Point	0.00	0.00	10,541.0	-10,084.4	-585.4	398,264.99	620,694.44	32° 5' 39.649 N	103° 56' 36.929 W
PBHL (CABO WABO - plan hits target center - Rectangle (sides W100.0 H10,100.0 D20.0)	0.00	359.64	10,541.0	-10,214.4	-584.1	398,135.00	620,695.71	32° 5' 38.362 N	103° 56' 36.920 W

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2850	2849	4	-21	Start 5103.0 hold at 2850.0 MD
7953	7914	136	-629	Start Drop -2.00
8303	8263	140	-650	Start 1800.2 hold at 8303.0 MD
10,103	10,063	140	-650	Start DLS 12.00 TFO 179.64
10,853	10,541	-337	-647	Start 9877.1 hold at 10853.3 MD
20,730	10,541	-10,214	-584	TD at 20730.4

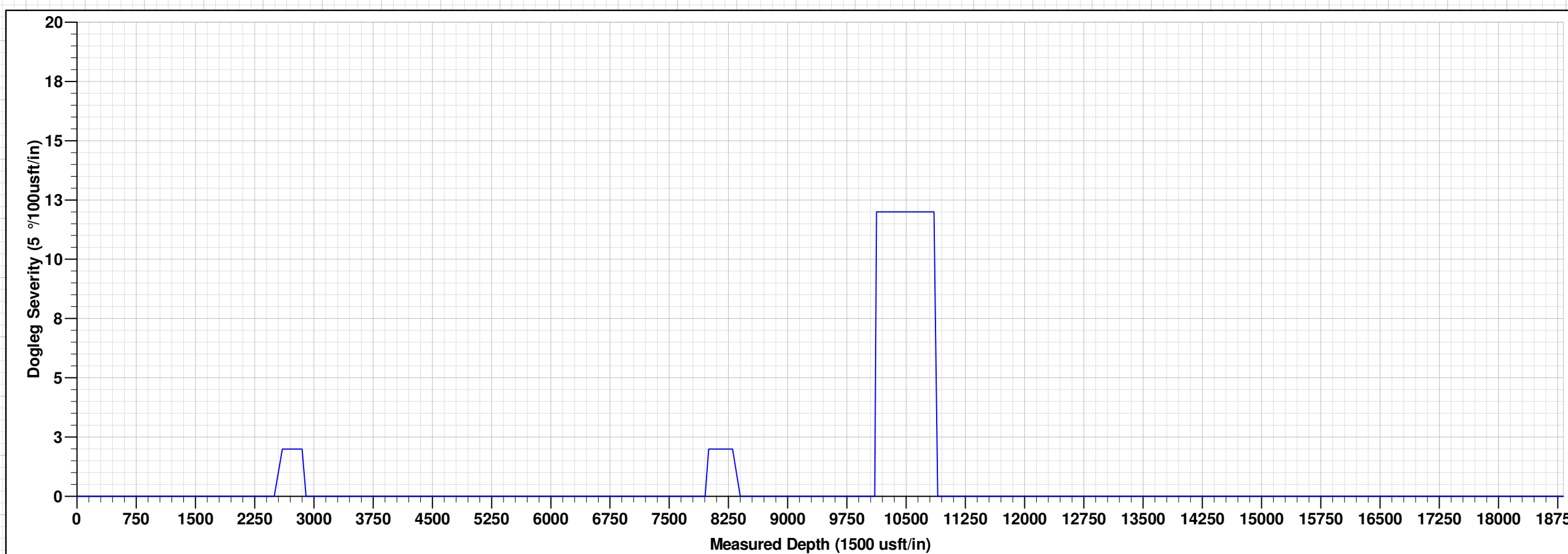
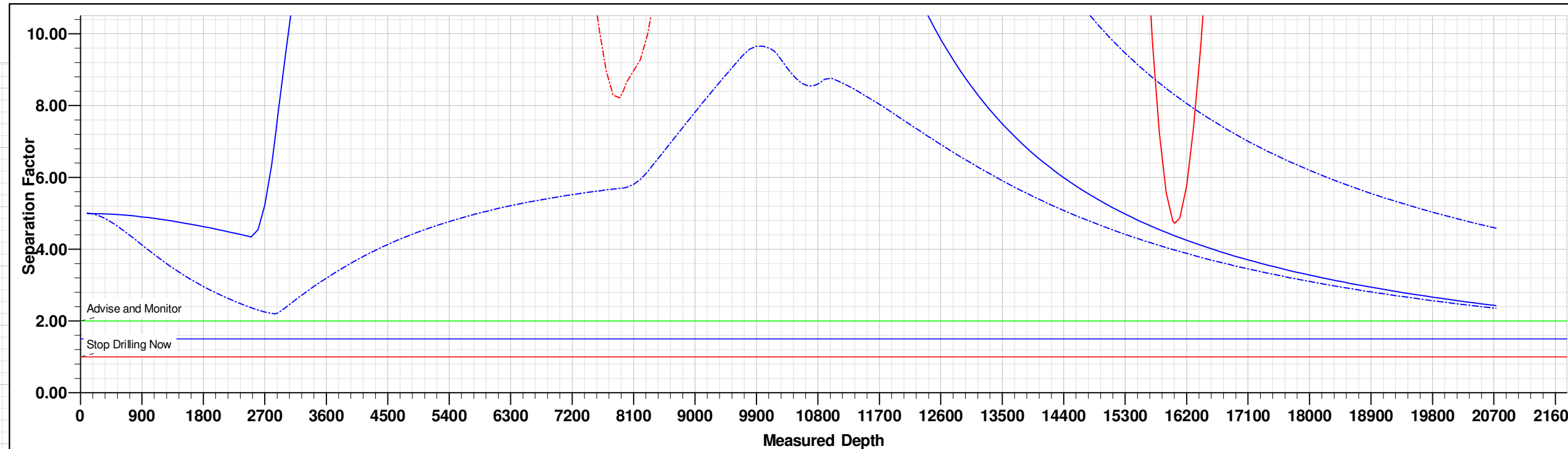
Checked By: _____ Approved By: _____ Date: _____



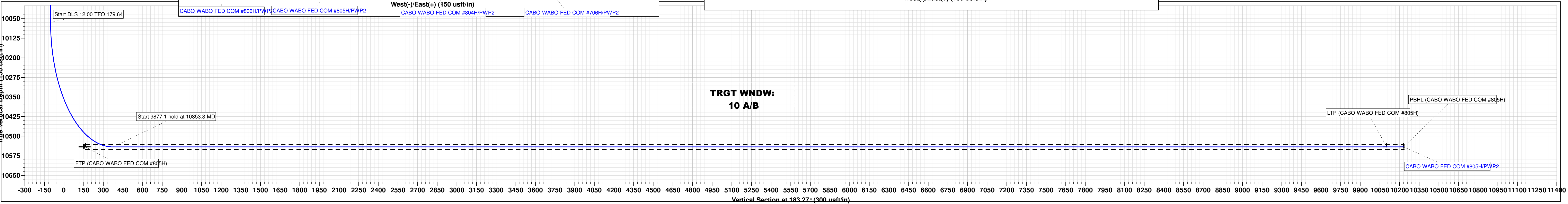
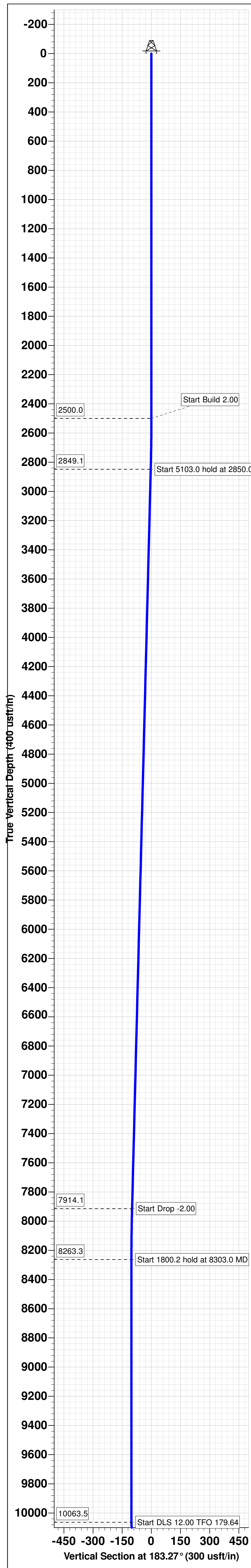
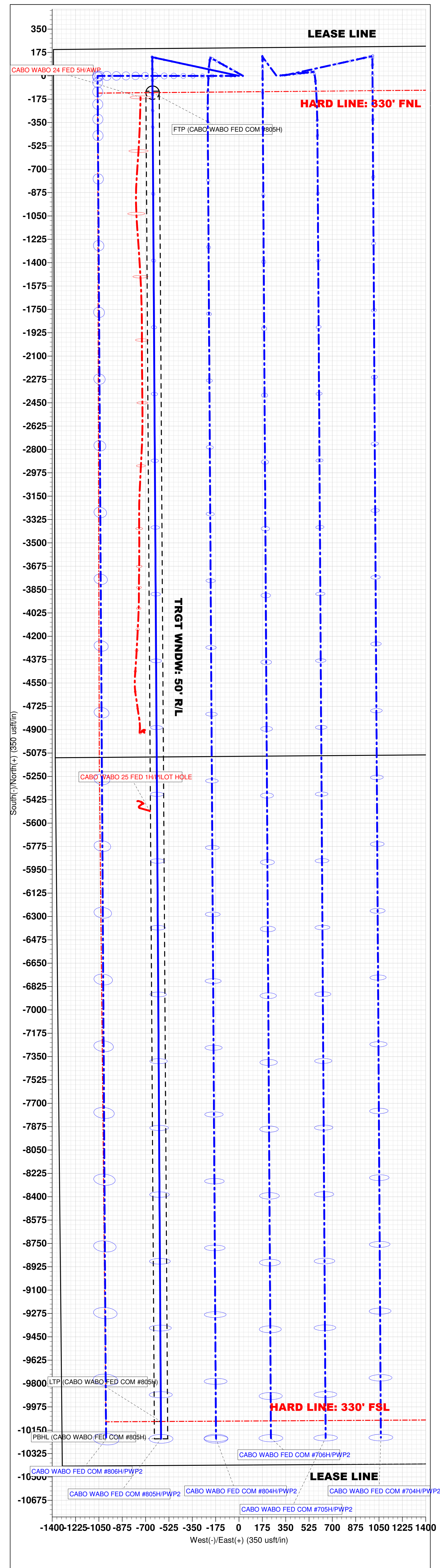
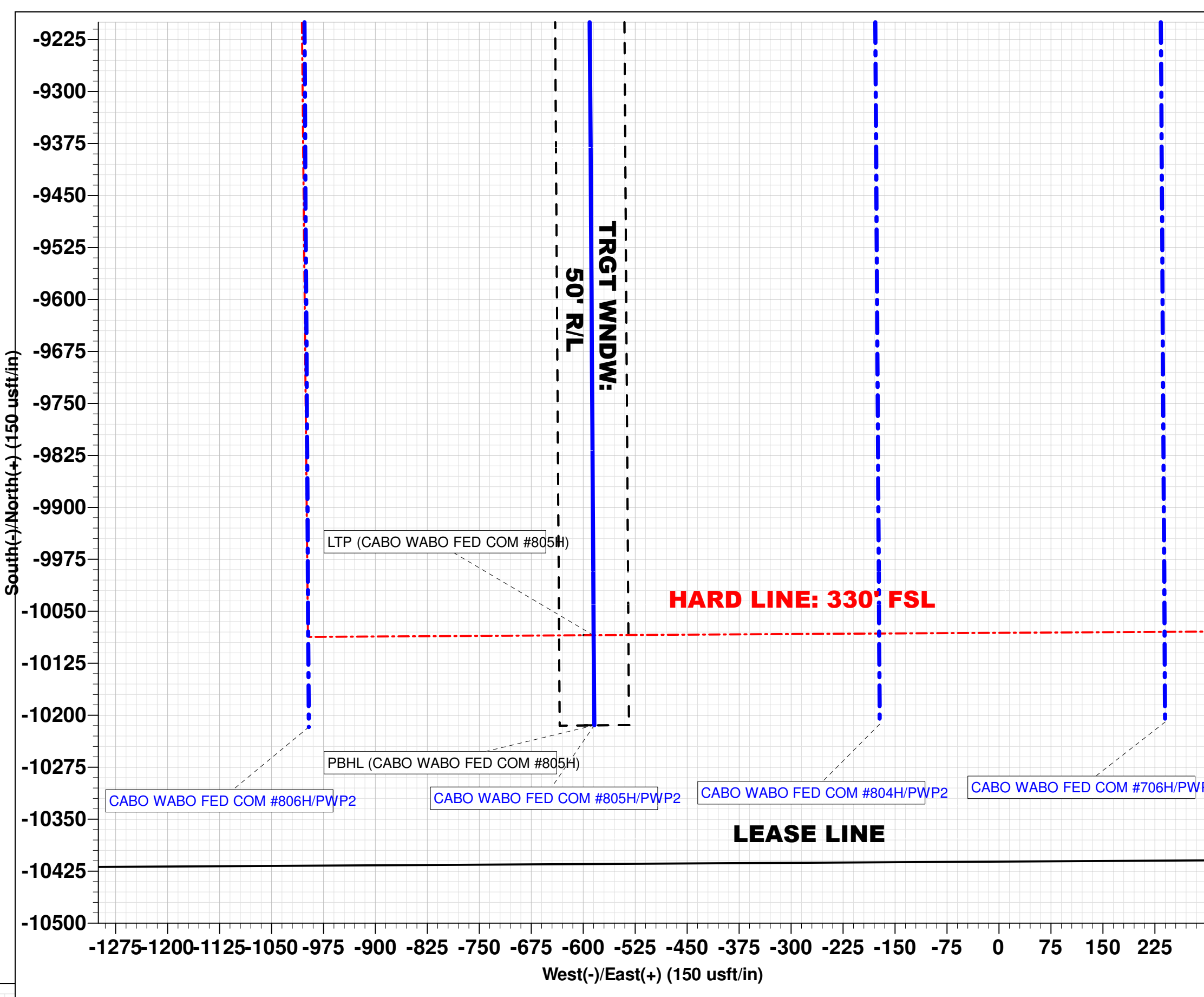
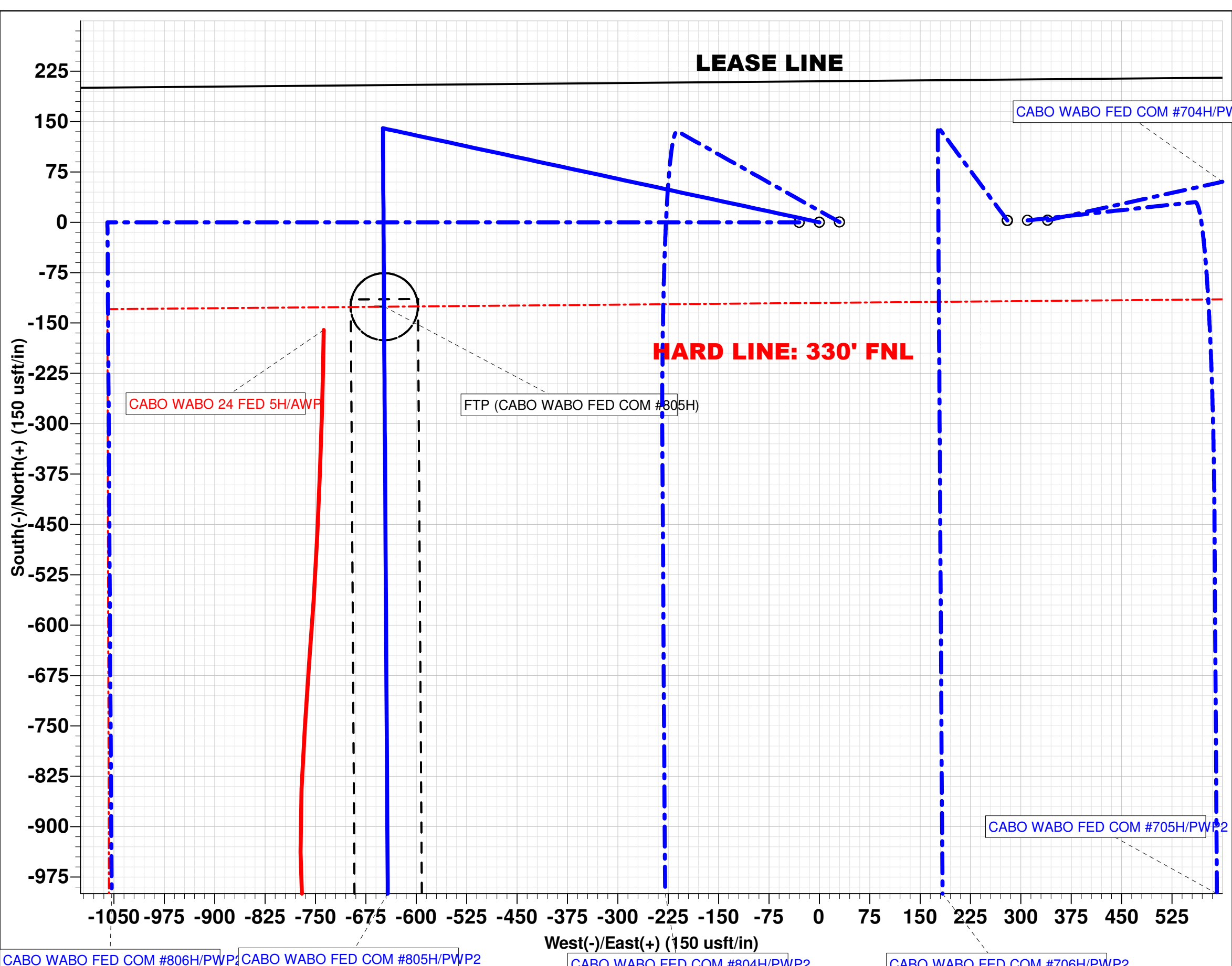
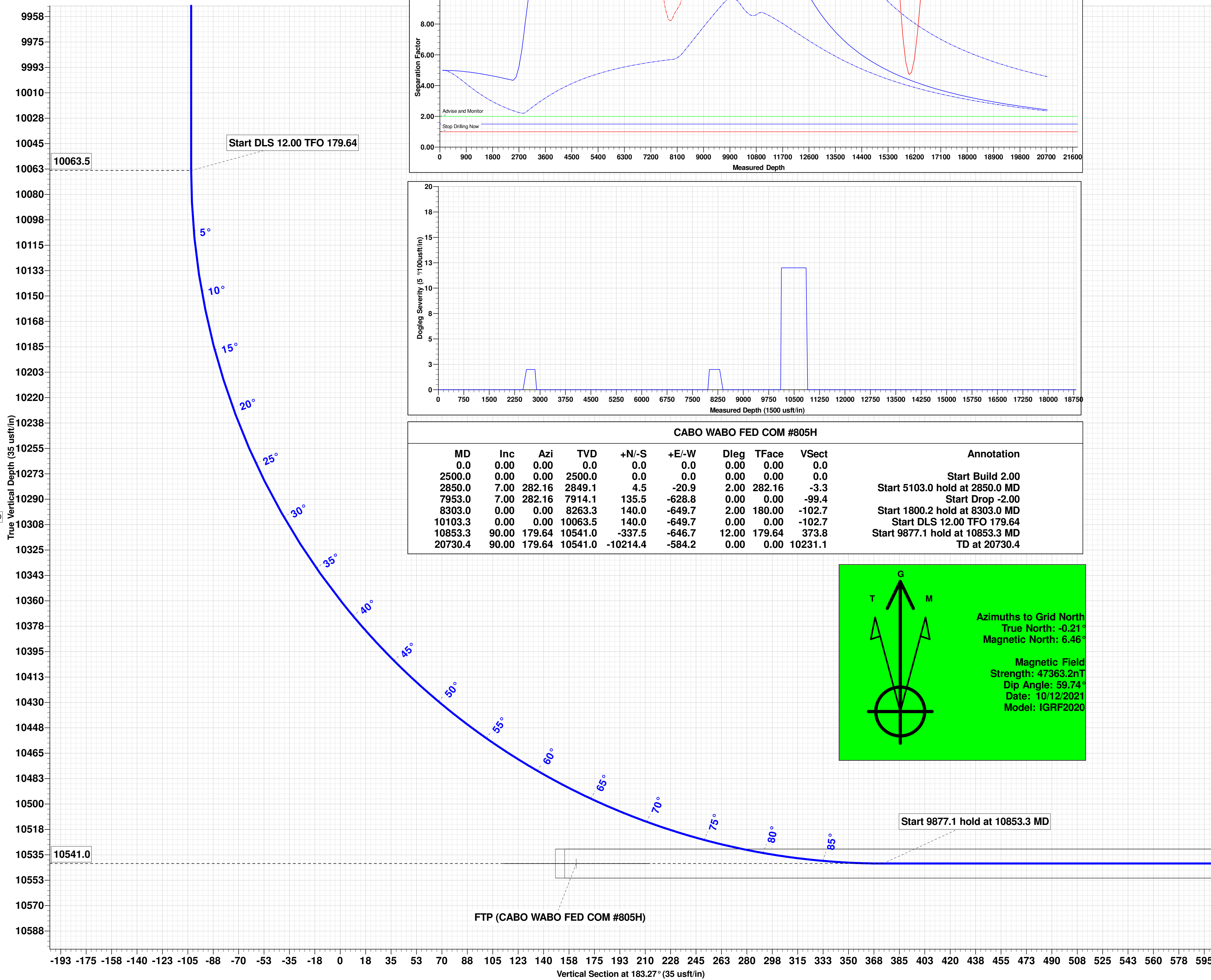
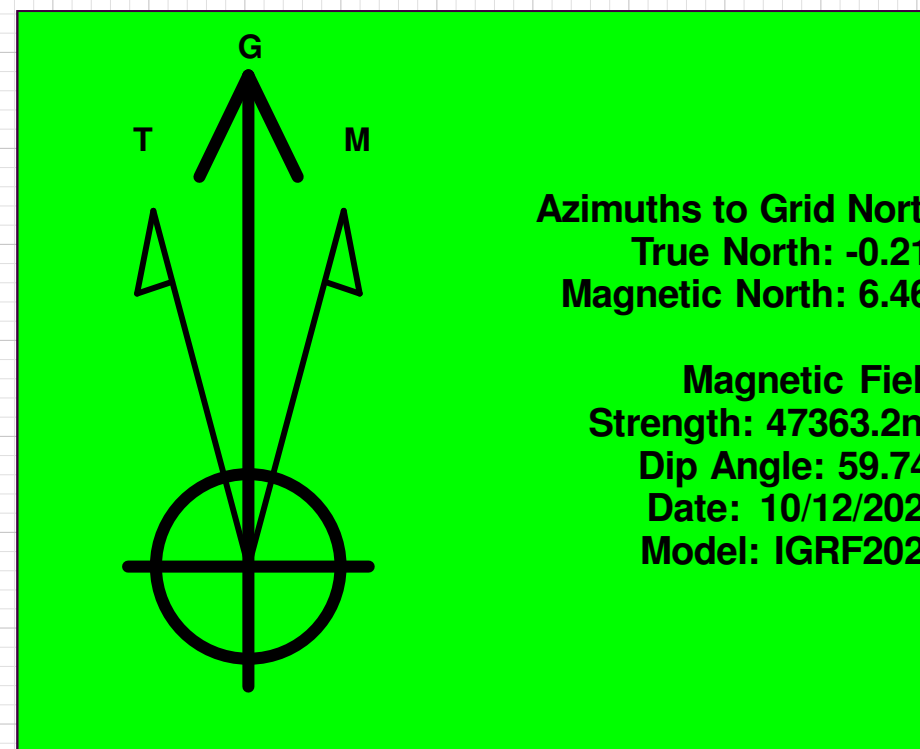
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #805H
Wellbore: OWB
Design: PWP2
GL: 3153.0
KB=25' @ 3178.0usft (P 84)

WELL DETAILS: CABO WABO FED COM #805H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408349.39	621279.86	32° 7' 19.426 N	103° 56' 29.698 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (CABO WABO FED COM #805H)	10541.0	-125.8	-647.7	408223.64	620632.16	32° 7' 18.205 N
LTP (CABO WABO FED COM #805H)	10541.0	-10084.4	-585.4	398264.99	620694.44	32° 5' 39.649 N
PBHL (CABO WABO FED COM #805H)	10541.0	-10214.4	-584.2	398135.00	620695.71	32° 5' 36.362 N



CABO WABO FED COM #805H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 5103.0 hold at 2850.0 MD
2850.0	7.00	282.16	2849.1	4.5	-20.9	2.00	282.16	-3.3	Start Drop -2.00
7953.0	7.00	282.16	7914.1	135.5	-628.8	0.00	0.00	-99.4	Start 1800.2 hold at 8303.0 MD
8303.0	0.00	0.00	8263.3	140.0	-649.7	2.00	180.00	-102.7	Start DLS 12.00 TFO 179.64
10103.3	0.00	0.00	10063.5	140.0	-649.7	0.00	0.00	-102.7	Start 9877.1 hold at 10853.3 MD
10853.3	90.00	179.64	10541.0	-337.5	-646.7	12.00	179.64	373.8	TD at 20730.4
20730.4	90.00	179.64	10541.0	-10214.4	-584.2	0.00	0.00	10231.1	



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 82897

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82897
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

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

District I
1625 N. French Dr., Hobbs, NM 88240
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

CONDITIONS

Action 82897

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82897
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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