

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

Form C-101
August 1, 2011

Permit 295262

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-48180
4. Property Code 330661	5. Property Name MOODY STATE COM	6. Well No. 504H

7. Surface Location

UL - Lot I	Section 17	Township 25S	Range 28E	Lot Idn	Feet From 1490	N/S Line S	Feet From 270	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 18	Township 25S	Range 28E	Lot Idn 4	Feet From 330	N/S Line S	Feet From 450	E/W Line W	County Eddy
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9. Pool Information

HAY HOLLOW;BONE SPRING, NORTH	30216
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3010
16. Multiple N	17. Proposed Depth 17996	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 4/26/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	600	400	0
Int1	12.25	9.625	40	2400	800	0
Prod	8.75	5.5	17	17996	3200	1900

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to 600' into the Rustler. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will set in Rustler and cover water depth. Drill 12-1/4" hole to ~2,400' with Brine. Run 9-5/8" 40# J-55 casing to TD and cement to surface in one stage. Drill 8-3/4" vertical hole, curve & lateral to 17,996' with Cut Brine. Run 5-1/2" 17# P110 BTC casing to TD and cement to 1900' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Robyn Russell	Approved By:	Kurt Simmons
Title:	Regulatory Compliance Lead	Title:	Petroleum Specialist - A
Email Address:	robyn.m.russell@conocophillips.com	Approved Date:	4/22/2021
Date:	4/20/2021	Phone:	432-685-4385
		Expiration Date:	4/22/2023
Conditions of Approval Attached			

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number 30-015-		2 Pool Code 30216		3 Pool Name Hay Hollow; Bone Spring, North					
4 Property Code		5 Property Name MOODY STATE COM						6 Well Number 504H	
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC						9 Elevation 3010'	

" Surface Location									
UL or lot no. I	Section 17	Township 25-S	Range 28-E	Lot Idn	Feet from the 1490'	North/South line SOUTH	Feet from the 270'	East/West line EAST	County EDDY

" Bottom Hole Location If Different From Surface									
UL or lot no. L4	Section 18	Township 25-S	Range 28-E	Lot Idn	Feet from the 330'	North/South line SOUTH	Feet from the 450'	East/West line WEST	County EDDY

12 Dedicated Acres 320.25	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

CORNER DATA NEW MEXICO EAST - NAD 27 A. FOUND IRON PIPE W/ BRASS CAP N:413700.06' E:561406.14' B. FOUND IRON PIPE W/ BRASS CAP N:413708.04' E:564072.66' C. FOUND BENT IRON PIPE W/ NO CAP N:413715.76' E:566733.78' D. FOUND BENT IRON PIPE W/ BRASS CAP N:413721.27' E:569402.34' E. FOUND IRON PIPE W/ BRASS CAP N:413725.61' E:572071.21' F. FOUND IRON PIPE W/ BRASS CAP N:411036.05' E:572095.24' G. CALCULATED CORNER N:408349.32' E:572121.76' H. FOUND IRON PIPE W/ BRASS CAP N:408322.49' E:569458.14' I. FOUND IRON PIPE W/ BRASS CAP N:408296.25' E:568794.46' J. FOUND BENT IRON PIPE N:408339.70' E:564116.81' K. CALCULATED CORNER N:408384.58' E:561429.58' L. FOUND IRON PIPE W/ BRASS CAP N:411044.06' E:561415.84' M. FOUND IRON PIPE W/ BRASS CAP N:411007.80' E:566783.49' SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 27 X=571837.07 Y=409836.50 LAT. = 32.12654436° N LONG. = W104.10127788° W 1490' FSL, 270' FEL SECTION 17 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 27 X=571788.53 Y=408875.97 LAT. = 32.12335434° N LONG. = W104.10144276° W 330' FSL, 330' FEL SECTION 17 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 27 X=561827.92 Y=408706.29 LAT. = 32.12349202° N LONG. = W104.13329405° W 330' FSL, 500' FWL SECTION 18 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 27 X=561877.91 Y=408707.13 LAT. = 32.12349457° N LONG. = W104.13345556° W 330' FSL, 450' FWL SECTION 18	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Mayte Reyes</i> 4-19-2021 Signature _____ Date _____ Mayte Reyes Printed Name _____ Mayte.X.Reyes@conocophilips.com E-mail Address _____ 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor _____ 3/17/2021 Certificate Number _____
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GAS CAPTURE PLAN

Date: 4/22/2021

☒ Original

Operator & OGRID No.: [229137] COG OPERATING LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MOODY STATE COM #504H	30-015-48180	I-17-25S-28E	1490S 0270E	2500	None	Gas will connect on well pad.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is COG OPERATING LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 295262

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-48180
		Well: MOODY STATE COM #504H

Created By	Comment	Comment Date
mreyes4	COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	4/20/2021

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Form APD Conditions

Permit 295262

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-48180
	Well: MOODY STATE COM #504H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

Moody State Com #504H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csg OD</u>	<u>PPE</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	17-1/2"	13-3/8"	54.5#	600'	400	0'
Intermediate 1	12-1/4"	9-5/8"	40#	2,400'	800	0'
Production	8-3/4"	5-1/2"	17#	17,996'	3,200	1,900'

Well Plan

Drill 17-1/2" hole to 600' into the Rustler. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will set in Rustler and cover water depth.

Drill 12-1/4" hole to ~2,400' with Brine. Run 9-5/8" 40# J-55 casing to TD and cement to surface in one stage.

Drill 8-3/4" vertical hole, curve & lateral to 17,996' with Cut Brine. Run 5-1/2" 17# P110 BTC casing to TD and cement to 1900' in one stage.

Well Control

After setting 13-3/8" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi.

After setting 9-5/8" casing and installing 3000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 1500 psi and other BOP equipment to 3000 psi.

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #504H**

OWB

Plan: PWP1

Standard Survey Report

06 April, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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	MOODY ST COM #504H				
Well Position	+N/-S	0.0 usft	Northing:	409,836.50 usft	Latitude: 32° 7' 35.560 N
	+E/-W	0.0 usft	Easting:	571,837.07 usft	Longitude: 104° 6' 4.600 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,010.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/5/2021	6.80	59.74	47,404.17526026

Design	PWP1				
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	263.53	

Survey Tool Program	Date	4/6/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,580.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,580.0	17,996.2	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	166.00	2,600.0	-1.7	0.4	-0.2	2.00	2.00	0.00
2,700.0	4.00	166.00	2,699.8	-6.8	1.7	-0.9	2.00	2.00	0.00
2,800.0	6.00	166.00	2,799.5	-15.2	3.8	-2.1	2.00	2.00	0.00
Start 4780.8 hold at 2800.0 MD									
2,900.0	6.00	166.00	2,898.9	-25.4	6.3	-3.4	0.00	0.00	0.00
3,000.0	6.00	166.00	2,998.4	-35.5	8.9	-4.8	0.00	0.00	0.00
3,100.0	6.00	166.00	3,097.8	-45.7	11.4	-6.2	0.00	0.00	0.00
3,200.0	6.00	166.00	3,197.3	-55.8	13.9	-7.5	0.00	0.00	0.00
3,300.0	6.00	166.00	3,296.7	-65.9	16.4	-8.9	0.00	0.00	0.00
3,400.0	6.00	166.00	3,396.2	-76.1	19.0	-10.3	0.00	0.00	0.00
3,500.0	6.00	166.00	3,495.6	-86.2	21.5	-11.6	0.00	0.00	0.00
3,600.0	6.00	166.00	3,595.1	-96.4	24.0	-13.0	0.00	0.00	0.00
3,700.0	6.00	166.00	3,694.5	-106.5	26.6	-14.4	0.00	0.00	0.00
3,800.0	6.00	166.00	3,794.0	-116.7	29.1	-15.8	0.00	0.00	0.00
3,900.0	6.00	166.00	3,893.4	-126.8	31.6	-17.1	0.00	0.00	0.00
4,000.0	6.00	166.00	3,992.9	-136.9	34.1	-18.5	0.00	0.00	0.00
4,100.0	6.00	166.00	4,092.3	-147.1	36.7	-19.9	0.00	0.00	0.00
4,200.0	6.00	166.00	4,191.8	-157.2	39.2	-21.2	0.00	0.00	0.00
4,300.0	6.00	166.00	4,291.2	-167.4	41.7	-22.6	0.00	0.00	0.00
4,400.0	6.00	166.00	4,390.7	-177.5	44.3	-24.0	0.00	0.00	0.00
4,500.0	6.00	166.00	4,490.1	-187.6	46.8	-25.3	0.00	0.00	0.00
4,600.0	6.00	166.00	4,589.6	-197.8	49.3	-26.7	0.00	0.00	0.00
4,700.0	6.00	166.00	4,689.0	-207.9	51.8	-28.1	0.00	0.00	0.00
4,800.0	6.00	166.00	4,788.5	-218.1	54.4	-29.5	0.00	0.00	0.00
4,900.0	6.00	166.00	4,887.9	-228.2	56.9	-30.8	0.00	0.00	0.00
5,000.0	6.00	166.00	4,987.4	-238.4	59.4	-32.2	0.00	0.00	0.00
5,100.0	6.00	166.00	5,086.9	-248.5	62.0	-33.6	0.00	0.00	0.00
5,200.0	6.00	166.00	5,186.3	-258.6	64.5	-34.9	0.00	0.00	0.00
5,300.0	6.00	166.00	5,285.8	-268.8	67.0	-36.3	0.00	0.00	0.00
5,400.0	6.00	166.00	5,385.2	-278.9	69.5	-37.7	0.00	0.00	0.00
5,500.0	6.00	166.00	5,484.7	-289.1	72.1	-39.0	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
5,600.0	6.00	166.00	5,584.1	-299.2	74.6	-40.4	0.00	0.00	0.00
5,700.0	6.00	166.00	5,683.6	-309.4	77.1	-41.8	0.00	0.00	0.00
5,800.0	6.00	166.00	5,783.0	-319.5	79.7	-43.2	0.00	0.00	0.00
5,900.0	6.00	166.00	5,882.5	-329.6	82.2	-44.5	0.00	0.00	0.00
6,000.0	6.00	166.00	5,981.9	-339.8	84.7	-45.9	0.00	0.00	0.00
6,100.0	6.00	166.00	6,081.4	-349.9	87.2	-47.3	0.00	0.00	0.00
6,200.0	6.00	166.00	6,180.8	-360.1	89.8	-48.6	0.00	0.00	0.00
6,300.0	6.00	166.00	6,280.3	-370.2	92.3	-50.0	0.00	0.00	0.00
6,400.0	6.00	166.00	6,379.7	-380.4	94.8	-51.4	0.00	0.00	0.00
6,500.0	6.00	166.00	6,479.2	-390.5	97.4	-52.7	0.00	0.00	0.00
6,600.0	6.00	166.00	6,578.6	-400.6	99.9	-54.1	0.00	0.00	0.00
6,700.0	6.00	166.00	6,678.1	-410.8	102.4	-55.5	0.00	0.00	0.00
6,800.0	6.00	166.00	6,777.5	-420.9	104.9	-56.9	0.00	0.00	0.00
6,900.0	6.00	166.00	6,877.0	-431.1	107.5	-58.2	0.00	0.00	0.00
7,000.0	6.00	166.00	6,976.4	-441.2	110.0	-59.6	0.00	0.00	0.00
7,100.0	6.00	166.00	7,075.9	-451.3	112.5	-61.0	0.00	0.00	0.00
7,200.0	6.00	166.00	7,175.3	-461.5	115.1	-62.3	0.00	0.00	0.00
7,300.0	6.00	166.00	7,274.8	-471.6	117.6	-63.7	0.00	0.00	0.00
7,400.0	6.00	166.00	7,374.3	-481.8	120.1	-65.1	0.00	0.00	0.00
7,500.0	6.00	166.00	7,473.7	-491.9	122.6	-66.4	0.00	0.00	0.00
7,580.8	6.00	166.00	7,554.1	-500.1	124.7	-67.5	0.00	0.00	0.00
Start DLS 12.00 TFO 73.61									
7,600.0	7.00	184.40	7,573.1	-502.3	124.8	-67.5	12.00	5.24	96.03
7,700.0	16.98	220.25	7,670.9	-519.5	114.9	-55.6	12.00	9.97	35.84
7,800.0	28.54	228.84	7,763.0	-546.5	87.4	-25.3	12.00	11.56	8.60
7,900.0	40.34	232.71	7,845.4	-582.0	43.5	22.4	12.00	11.80	3.87
8,000.0	52.22	235.04	7,914.4	-624.4	-14.9	85.1	12.00	11.88	2.34
8,100.0	64.14	236.72	7,967.0	-671.9	-85.1	160.3	12.00	11.92	1.68
8,200.0	76.07	238.09	8,001.0	-722.4	-164.2	244.6	12.00	11.93	1.37
8,300.0	88.01	239.32	8,014.8	-773.7	-248.7	334.3	12.00	11.94	1.23
8,320.6	90.47	239.57	8,015.1	-784.2	-266.4	353.1	12.00	11.94	1.20
Start DLS 2.00 TFO 89.88									
8,400.0	90.47	241.16	8,014.4	-823.5	-335.4	426.1	2.00	0.00	2.00
8,500.0	90.48	243.16	8,013.6	-870.2	-423.9	519.2	2.00	0.00	2.00
8,600.0	90.48	245.16	8,012.7	-913.8	-513.9	613.5	2.00	0.00	2.00
8,700.0	90.48	247.16	8,011.9	-954.2	-605.3	709.0	2.00	0.00	2.00
8,800.0	90.48	249.16	8,011.1	-991.4	-698.1	805.4	2.00	0.00	2.00
8,900.0	90.48	251.16	8,010.2	-1,025.3	-792.2	902.7	2.00	0.00	2.00
9,000.0	90.49	253.16	8,009.4	-1,055.9	-887.4	1,000.7	2.00	0.00	2.00
9,100.0	90.49	255.16	8,008.5	-1,083.2	-983.6	1,099.3	2.00	0.00	2.00
9,200.0	90.48	257.16	8,007.7	-1,107.2	-1,080.6	1,198.5	2.00	0.00	2.00
9,300.0	90.48	259.16	8,006.8	-1,127.7	-1,178.5	1,298.1	2.00	0.00	2.00
9,400.0	90.48	261.16	8,006.0	-1,144.8	-1,277.0	1,397.9	2.00	0.00	2.00
9,500.0	90.48	263.16	8,005.1	-1,158.4	-1,376.1	1,497.8	2.00	0.00	2.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	90.48	265.16	8,004.3	-1,168.6	-1,475.6	1,597.8	2.00	0.00	2.00
9,700.0	90.47	267.16	8,003.5	-1,175.3	-1,575.3	1,697.7	2.00	0.00	2.00
9,800.0	90.47	269.16	8,002.7	-1,178.5	-1,675.3	1,797.4	2.00	0.00	2.00
9,815.2	90.47	269.46	8,002.5	-1,178.7	-1,690.5	1,812.5	2.00	0.00	2.00
Start 3356.2 hold at 9815.2 MD									
9,900.0	90.47	269.46	8,001.8	-1,179.5	-1,775.3	1,896.8	0.00	0.00	0.00
10,000.0	90.47	269.46	8,001.0	-1,180.4	-1,875.2	1,996.3	0.00	0.00	0.00
10,100.0	90.47	269.46	8,000.2	-1,181.4	-1,975.2	2,095.8	0.00	0.00	0.00
10,200.0	90.47	269.46	7,999.4	-1,182.3	-2,075.2	2,195.2	0.00	0.00	0.00
10,300.0	90.47	269.46	7,998.6	-1,183.2	-2,175.2	2,294.7	0.00	0.00	0.00
10,400.0	90.47	269.46	7,997.8	-1,184.2	-2,275.2	2,394.2	0.00	0.00	0.00
10,500.0	90.47	269.46	7,996.9	-1,185.1	-2,375.2	2,493.6	0.00	0.00	0.00
10,600.0	90.47	269.46	7,996.1	-1,186.0	-2,475.2	2,593.1	0.00	0.00	0.00
10,700.0	90.47	269.46	7,995.3	-1,187.0	-2,575.2	2,692.5	0.00	0.00	0.00
10,800.0	90.47	269.46	7,994.5	-1,187.9	-2,675.2	2,792.0	0.00	0.00	0.00
10,900.0	90.47	269.46	7,993.7	-1,188.9	-2,775.2	2,891.5	0.00	0.00	0.00
11,000.0	90.47	269.46	7,992.8	-1,189.8	-2,875.2	2,990.9	0.00	0.00	0.00
11,100.0	90.47	269.46	7,992.0	-1,190.7	-2,975.2	3,090.4	0.00	0.00	0.00
11,200.0	90.47	269.46	7,991.2	-1,191.7	-3,075.2	3,189.8	0.00	0.00	0.00
11,300.0	90.47	269.46	7,990.4	-1,192.6	-3,175.1	3,289.3	0.00	0.00	0.00
11,400.0	90.47	269.46	7,989.6	-1,193.5	-3,275.1	3,388.8	0.00	0.00	0.00
11,500.0	90.47	269.46	7,988.8	-1,194.5	-3,375.1	3,488.2	0.00	0.00	0.00
11,600.0	90.47	269.46	7,987.9	-1,195.4	-3,475.1	3,587.7	0.00	0.00	0.00
11,700.0	90.47	269.46	7,987.1	-1,196.4	-3,575.1	3,687.1	0.00	0.00	0.00
11,800.0	90.47	269.46	7,986.3	-1,197.3	-3,675.1	3,786.6	0.00	0.00	0.00
11,900.0	90.47	269.46	7,985.5	-1,198.2	-3,775.1	3,886.1	0.00	0.00	0.00
12,000.0	90.47	269.46	7,984.7	-1,199.2	-3,875.1	3,985.5	0.00	0.00	0.00
12,100.0	90.47	269.46	7,983.9	-1,200.1	-3,975.1	4,085.0	0.00	0.00	0.00
12,200.0	90.47	269.46	7,983.0	-1,201.0	-4,075.1	4,184.5	0.00	0.00	0.00
12,300.0	90.47	269.46	7,982.2	-1,202.0	-4,175.1	4,283.9	0.00	0.00	0.00
12,400.0	90.47	269.46	7,981.4	-1,202.9	-4,275.1	4,383.4	0.00	0.00	0.00
12,500.0	90.47	269.46	7,980.6	-1,203.9	-4,375.1	4,482.8	0.00	0.00	0.00
12,600.0	90.47	269.46	7,979.8	-1,204.8	-4,475.0	4,582.3	0.00	0.00	0.00
12,700.0	90.47	269.46	7,979.0	-1,205.7	-4,575.0	4,681.8	0.00	0.00	0.00
12,800.0	90.47	269.46	7,978.1	-1,206.7	-4,675.0	4,781.2	0.00	0.00	0.00
12,900.0	90.47	269.46	7,977.3	-1,207.6	-4,775.0	4,880.7	0.00	0.00	0.00
13,000.0	90.47	269.46	7,976.5	-1,208.5	-4,875.0	4,980.1	0.00	0.00	0.00
13,100.0	90.47	269.46	7,975.7	-1,209.5	-4,975.0	5,079.6	0.00	0.00	0.00
13,171.4	90.47	269.46	7,975.1	-1,210.1	-5,046.4	5,150.6	0.00	0.00	0.00
Start DLS 2.00 TFO 89.93									
13,200.0	90.47	270.04	7,974.9	-1,210.3	-5,075.0	5,179.0	2.00	0.00	2.00
13,245.7	90.47	270.95	7,974.5	-1,209.9	-5,120.7	5,224.4	2.00	0.00	2.00
Start 4750.5 hold at 13245.7 MD									
13,300.0	90.47	270.95	7,974.0	-1,209.0	-5,175.0	5,278.3	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
13,400.0	90.47	270.95	7,973.2	-1,207.3	-5,275.0	5,377.4	0.00	0.00	0.00
13,500.0	90.47	270.95	7,972.4	-1,205.7	-5,374.9	5,476.6	0.00	0.00	0.00
13,600.0	90.47	270.95	7,971.6	-1,204.0	-5,474.9	5,575.7	0.00	0.00	0.00
13,700.0	90.47	270.95	7,970.8	-1,202.3	-5,574.9	5,674.9	0.00	0.00	0.00
13,800.0	90.47	270.95	7,969.9	-1,200.7	-5,674.9	5,774.0	0.00	0.00	0.00
13,900.0	90.47	270.95	7,969.1	-1,199.0	-5,774.9	5,873.2	0.00	0.00	0.00
14,000.0	90.47	270.95	7,968.3	-1,197.4	-5,874.9	5,972.4	0.00	0.00	0.00
14,100.0	90.47	270.95	7,967.5	-1,195.7	-5,974.8	6,071.5	0.00	0.00	0.00
14,200.0	90.47	270.95	7,966.7	-1,194.1	-6,074.8	6,170.7	0.00	0.00	0.00
14,300.0	90.47	270.95	7,965.8	-1,192.4	-6,174.8	6,269.8	0.00	0.00	0.00
14,400.0	90.47	270.95	7,965.0	-1,190.7	-6,274.8	6,369.0	0.00	0.00	0.00
14,500.0	90.47	270.95	7,964.2	-1,189.1	-6,374.8	6,468.2	0.00	0.00	0.00
14,600.0	90.47	270.95	7,963.4	-1,187.4	-6,474.8	6,567.3	0.00	0.00	0.00
14,700.0	90.47	270.95	7,962.6	-1,185.8	-6,574.7	6,666.5	0.00	0.00	0.00
14,800.0	90.47	270.95	7,961.7	-1,184.1	-6,674.7	6,765.6	0.00	0.00	0.00
14,900.0	90.47	270.95	7,960.9	-1,182.4	-6,774.7	6,864.8	0.00	0.00	0.00
15,000.0	90.47	270.95	7,960.1	-1,180.8	-6,874.7	6,964.0	0.00	0.00	0.00
15,100.0	90.47	270.95	7,959.3	-1,179.1	-6,974.7	7,063.1	0.00	0.00	0.00
15,200.0	90.47	270.95	7,958.5	-1,177.5	-7,074.7	7,162.3	0.00	0.00	0.00
15,300.0	90.47	270.95	7,957.6	-1,175.8	-7,174.6	7,261.4	0.00	0.00	0.00
15,400.0	90.47	270.95	7,956.8	-1,174.2	-7,274.6	7,360.6	0.00	0.00	0.00
15,500.0	90.47	270.95	7,956.0	-1,172.5	-7,374.6	7,459.8	0.00	0.00	0.00
15,600.0	90.47	270.95	7,955.2	-1,170.8	-7,474.6	7,558.9	0.00	0.00	0.00
15,700.0	90.47	270.95	7,954.4	-1,169.2	-7,574.6	7,658.1	0.00	0.00	0.00
15,800.0	90.47	270.95	7,953.5	-1,167.5	-7,674.6	7,757.2	0.00	0.00	0.00
15,900.0	90.47	270.95	7,952.7	-1,165.9	-7,774.5	7,856.4	0.00	0.00	0.00
16,000.0	90.47	270.95	7,951.9	-1,164.2	-7,874.5	7,955.6	0.00	0.00	0.00
16,100.0	90.47	270.95	7,951.1	-1,162.6	-7,974.5	8,054.7	0.00	0.00	0.00
16,200.0	90.47	270.95	7,950.3	-1,160.9	-8,074.5	8,153.9	0.00	0.00	0.00
16,300.0	90.47	270.95	7,949.4	-1,159.2	-8,174.5	8,253.0	0.00	0.00	0.00
16,400.0	90.47	270.95	7,948.6	-1,157.6	-8,274.5	8,352.2	0.00	0.00	0.00
16,500.0	90.47	270.95	7,947.8	-1,155.9	-8,374.4	8,451.4	0.00	0.00	0.00
16,600.0	90.47	270.95	7,947.0	-1,154.3	-8,474.4	8,550.5	0.00	0.00	0.00
16,700.0	90.47	270.95	7,946.2	-1,152.6	-8,574.4	8,649.7	0.00	0.00	0.00
16,800.0	90.47	270.95	7,945.3	-1,150.9	-8,674.4	8,748.8	0.00	0.00	0.00
16,900.0	90.47	270.95	7,944.5	-1,149.3	-8,774.4	8,848.0	0.00	0.00	0.00
17,000.0	90.47	270.95	7,943.7	-1,147.6	-8,874.4	8,947.1	0.00	0.00	0.00
17,100.0	90.47	270.95	7,942.9	-1,146.0	-8,974.3	9,046.3	0.00	0.00	0.00
17,200.0	90.47	270.95	7,942.1	-1,144.3	-9,074.3	9,145.5	0.00	0.00	0.00
17,300.0	90.47	270.95	7,941.2	-1,142.7	-9,174.3	9,244.6	0.00	0.00	0.00
17,400.0	90.47	270.95	7,940.4	-1,141.0	-9,274.3	9,343.8	0.00	0.00	0.00
17,500.0	90.47	270.95	7,939.6	-1,139.3	-9,374.3	9,442.9	0.00	0.00	0.00
17,600.0	90.47	270.95	7,938.8	-1,137.7	-9,474.2	9,542.1	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Well:	MOODY ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,700.0	90.47	270.95	7,938.0	-1,136.0	-9,574.2	9,641.3	0.00	0.00	0.00
17,800.0	90.47	270.95	7,937.1	-1,134.4	-9,674.2	9,740.4	0.00	0.00	0.00
17,900.0	90.47	270.95	7,936.3	-1,132.7	-9,774.2	9,839.6	0.00	0.00	0.00
17,996.2	90.47	270.95	7,935.5	-1,131.1	-9,870.4	9,935.0	0.00	0.00	0.00
TD at 17996.2									

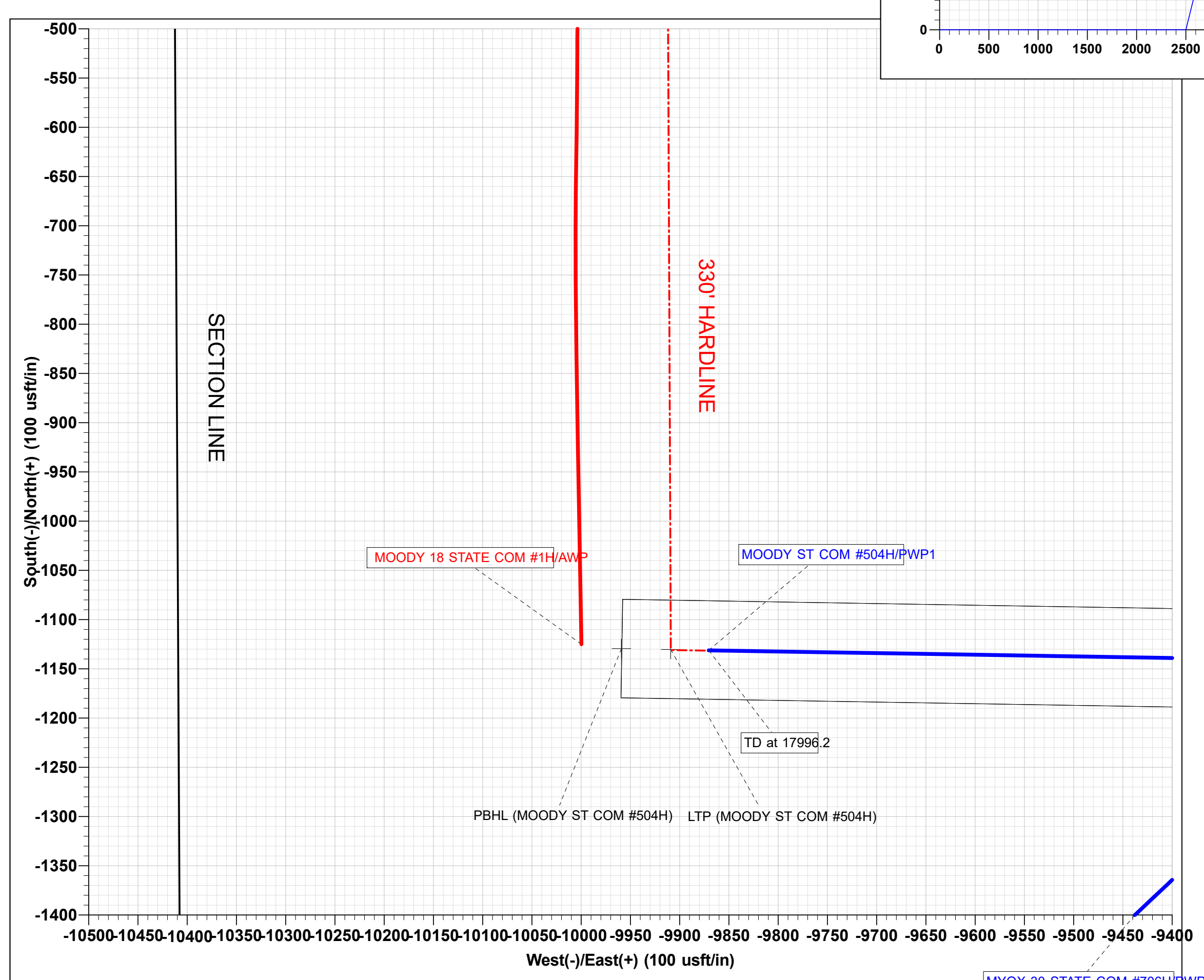
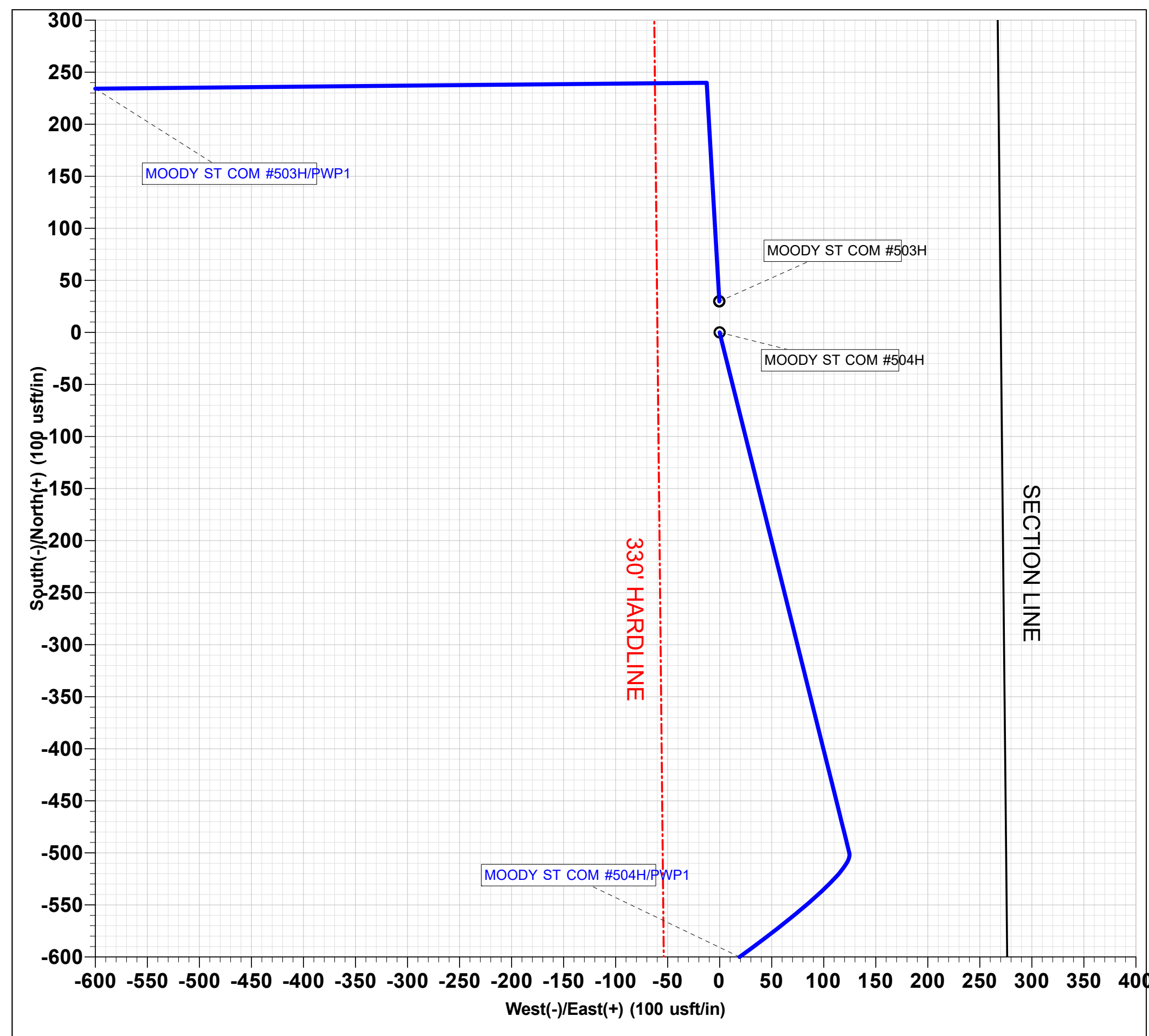
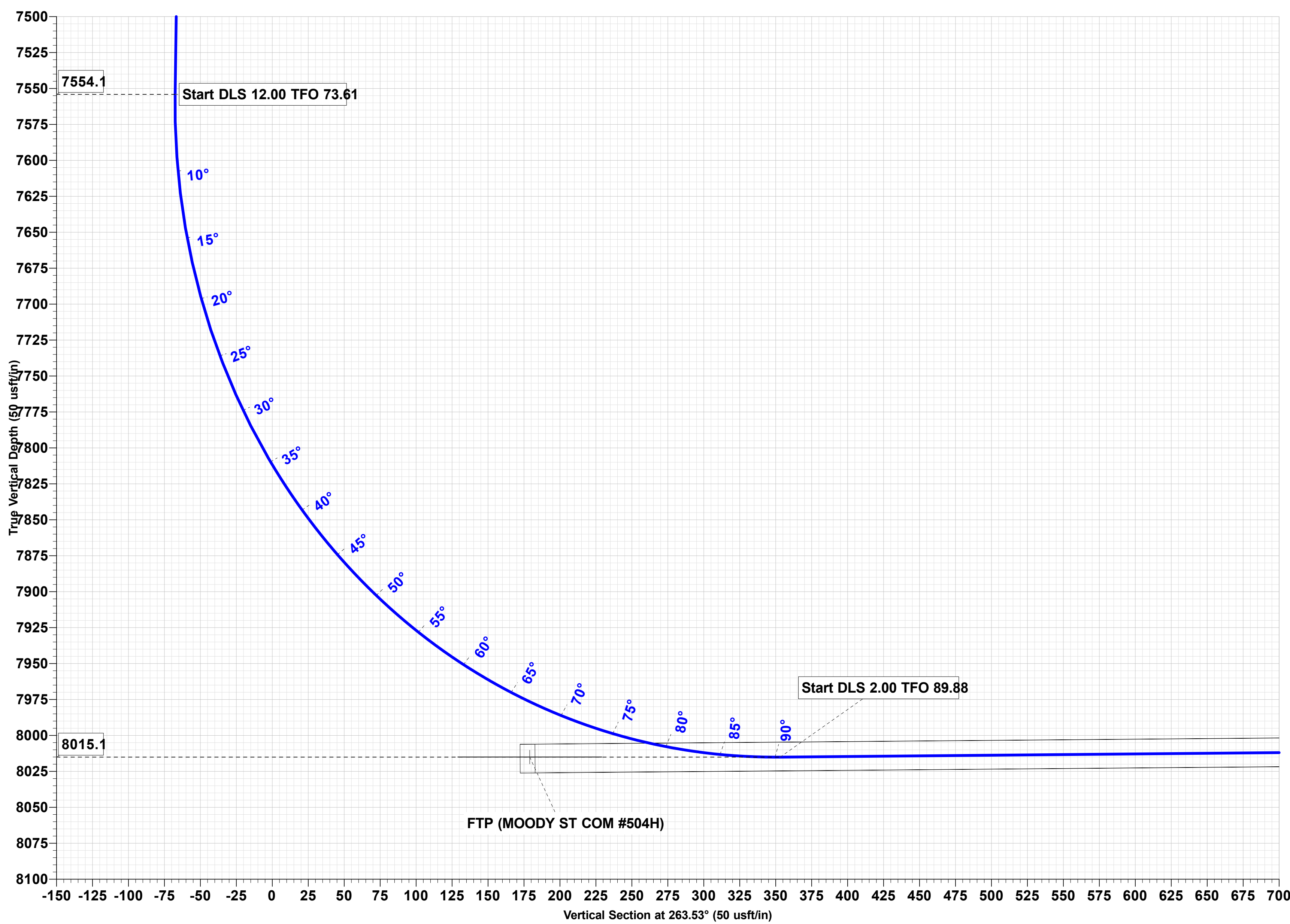
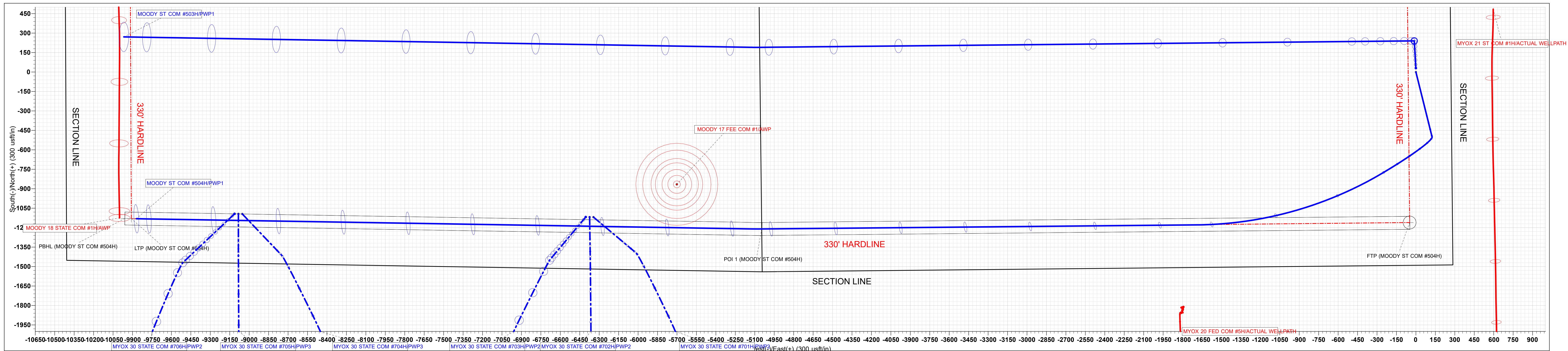
Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP (MOODY ST COI	0.00	0.00	7,935.0	-1,130.2	-9,909.1	408,706.29	561,927.92	32° 7' 24.571 N	104° 7' 59.859 W
- plan misses target center by 38.8usft at 17996.2usft MD (7935.5 TVD, -1131.1 N, -9870.4 E)									
- Point									
PBHL (MOODY ST C	0.47	90.95	7,935.0	-1,129.4	-9,959.2	408,707.13	561,877.91	32° 7' 24.580 N	104° 8' 0.440 W
- plan misses target center by 88.8usft at 17996.2usft MD (7935.5 TVD, -1131.1 N, -9870.4 E)									
- Rectangle (sides W100.0 H4,915.0 D20.0)									
POI 1 (MOODY ST C	0.47	89.46	7,975.1	-1,210.1	-5,046.4	408,626.36	566,790.69	32° 7' 23.687 N	104° 7' 3.313 W
- plan hits target center									
- Rectangle (sides W100.0 H5,000.0 D20.0)									
FTP (MOODY ST CO	0.00	0.00	8,015.0	-1,160.5	-48.5	408,675.97	571,788.53	32° 7' 24.076 N	104° 6' 5.194 W
- plan misses target center by 434.9usft at 8320.6usft MD (8015.1 TVD, -784.2 N, -266.4 E)									
- Circle (radius 50.0)									

Plan Annotations

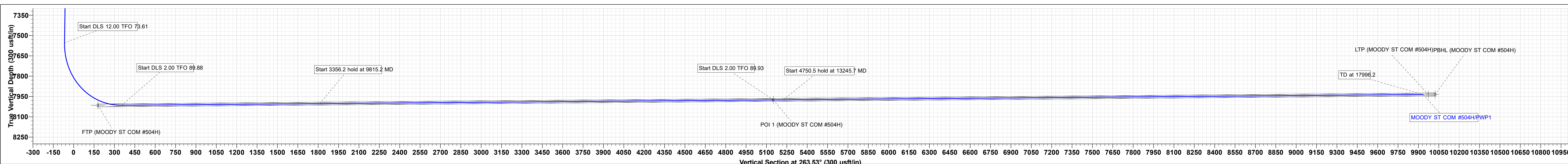
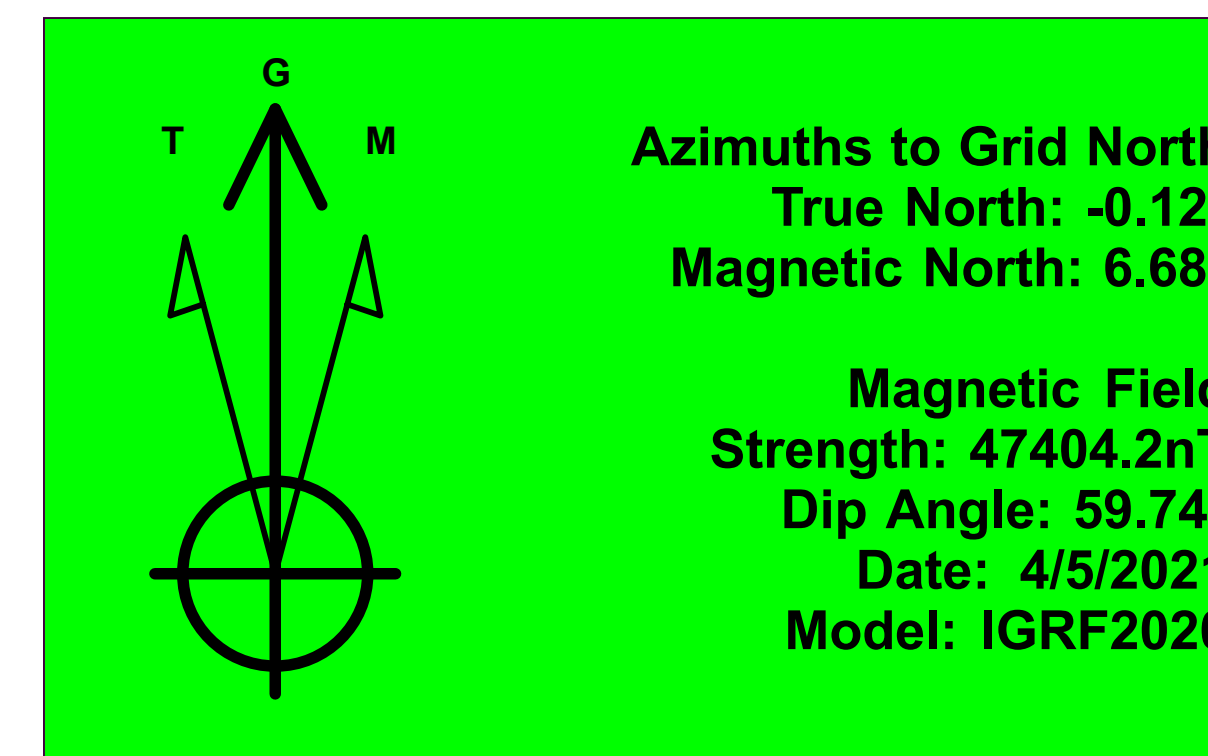
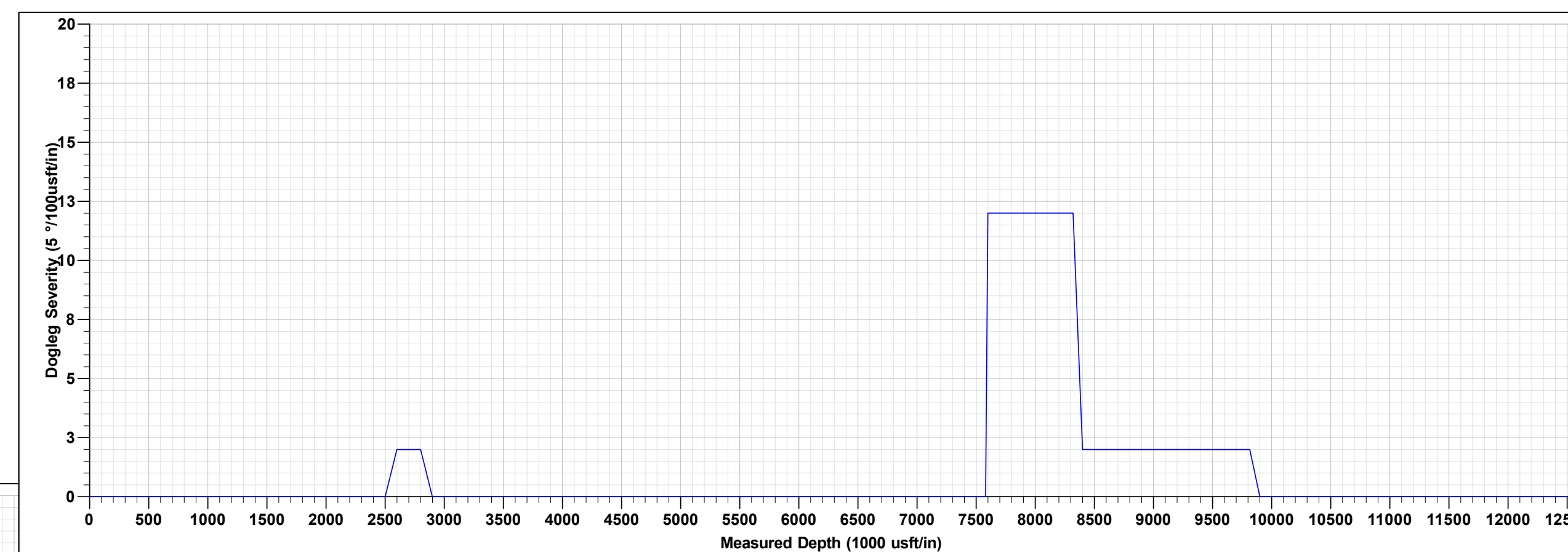
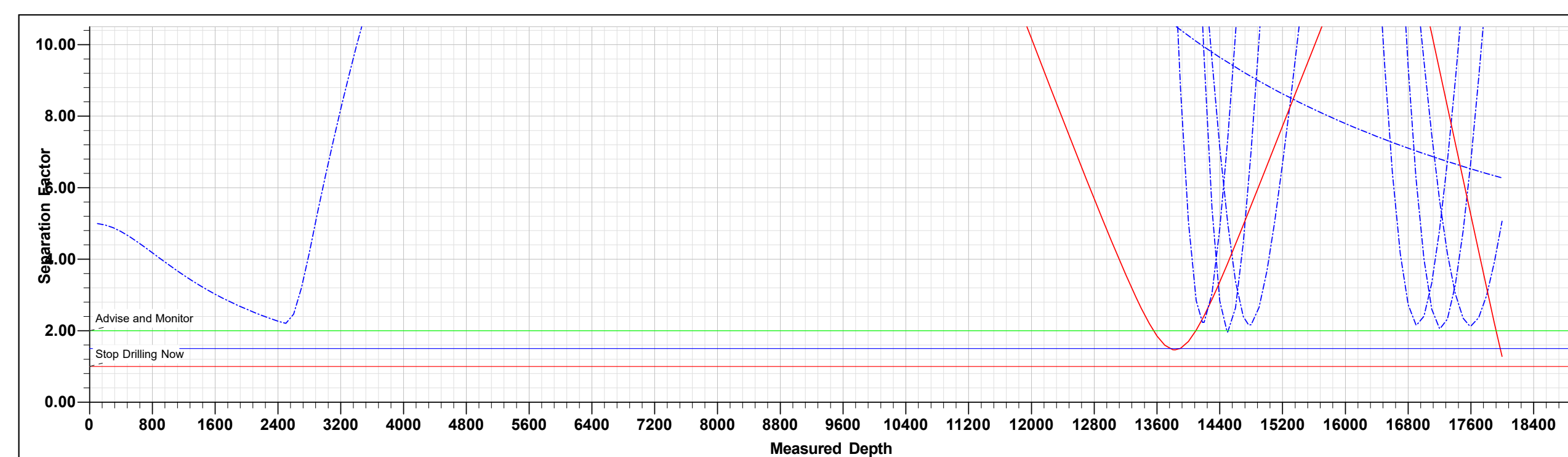
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2800	2799	-15	4	Start 4780.8 hold at 2800.0 MD
7581	7554	-500	125	Start DLS 12.00 TFO 73.61
8321	8015	-784	-266	Start DLS 2.00 TFO 89.88
9815	8003	-1179	-1690	Start 3356.2 hold at 9815.2 MD
13,171	7975	-1210	-5046	Start DLS 2.00 TFO 89.93
13,246	7974	-1210	-5121	Start 4750.5 hold at 13245.7 MD
17,996	7936	-1131	-9870	TD at 17996.2

Checked By: _____ Approved By: _____ Date: _____



MOODY ST COM #504H									
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	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2800.0	6.00	166.00	2799.5	-15.2	3.8	2.00	166.00	-2.1	Start 4780.8 hold at 2800.0 MD
7580.8	6.00	166.00	7554.1	-500.1	124.7	0.00	0.00	-67.5	Start DLS 12.00 TFO 73.61
8320.6	90.47	239.57	8015.1	-784.2	-266.4	12.00	73.61	353.1	Start DLS 2.00 TFO 89.88
9815.2	90.47	269.46	8002.5	-1178.7	-1690.5	2.00	89.88	1812.5	Start 3356.2 hold at 9815.2 MD
13171.4	90.47	269.46	7975.1	-1210.1	-5046.4	0.00	0.00	5150.6	Start DLS 2.00 TFO 89.93
13245.7	90.47	270.95	7974.5	-1209.9	-5120.7	2.00	89.93	5224.4	Start 4750.5 hold at 13245.7 MD
17996.2	90.47	270.95	7935.5	-1131.1	-9870.4	0.00	0.00	9935.0	TD at 17996.2

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
LTP (MOODY ST COM #504H)	7935.0	-1130.2	-9909.1	408706.29	561927.92	
PBHL (MOODY ST COM #504H)	7935.0	-1129.4	-9959.2	408707.13	561877.91	
POI 1 (MOODY ST COM #504H)	7975.1	-1210.1	-5046.4	408626.36	566790.69	
FTP (MOODY ST COM #504H)	8015.0	-1160.5	-48.5	408675.97	571788.53	



DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #504H**

**OWB
PWP1**

Anticollision Report

06 April, 2021

The ConocoPhillips logo is displayed on a light yellow rectangular background. It features the company name "ConocoPhillips" in a bold, black, sans-serif font. Above the "o" in "Phillips" is a red stylized flame or drop icon.

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 2,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	4/6/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,580.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,580.0	17,996.2	PWP1 (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						
DAISY STATE PROJECT (ATLAS 2527)						
DAISY 24 STATE COM 506H - OWB - AWP	17,996.2	7,821.0	1,017.2	954.5	16.226	CC, ES, SF
MOODY ST COM PROJECT						
MOODY 17 FEE COM #1 - OWB - AWP	13,831.6	7,968.9	334.5	105.9	1.463	Shut in Produces, CC, ES
MOODY 18 STATE COM #1H - OWB - AWP	17,996.2	12,297.0	146.4	32.1	1.281	Shut in Produces, CC, ES
MOODY ST COM #503H - OWB - PWP1	2,403.1	2,432.1	30.0	16.8	2.264	CC
MOODY ST COM #503H - OWB - PWP1	2,500.0	2,528.7	30.1	16.5	2.205	ES, SF
MYOX 30 & 31 STATE PROJECT (ATLAS 2528)						
MYOX 20 FED COM #5H - OWB - ACTUAL WELLPATH	9,954.4	7,670.1	815.7	785.8	27.314	CC, ES
MYOX 20 FED COM #5H - OWB - ACTUAL WELLPATH	10,200.0	7,668.2	851.9	819.0	25.934	SF
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,800.0	13,858.4	601.8	544.5	10.509	SF
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,850.0	13,841.6	597.5	540.9	10.548	ES
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,850.1	13,841.6	597.5	540.9	10.549	CC
MYOX 30 STATE COM #701H - OWB - PWP2	14,178.1	7,992.6	166.7	92.1	2.234	CC, ES
MYOX 30 STATE COM #701H - OWB - PWP2	14,200.0	7,991.2	168.1	92.8	2.233	SF
MYOX 30 STATE COM #702H - OWB - PWP2	14,493.1	7,979.0	154.6	76.1	1.970	Advise and Monitor, CC
MYOX 30 STATE COM #702H - OWB - PWP2	14,500.0	7,978.9	154.8	76.0	1.964	Advise and Monitor, ES, SF
MYOX 30 STATE COM #703H - OWB - PWP2	14,766.8	7,982.0	221.4	118.9	2.161	CC, ES, SF
MYOX 30 STATE COM #704H - OWB - PWP3	16,907.2	7,981.7	226.2	121.3	2.157	CC, ES, SF
MYOX 30 STATE COM #705H - OWB - PWP3	17,205.1	7,972.6	223.2	114.7	2.058	CC, ES, SF
MYOX 30 STATE COM #706H - OWB - PWP2	17,583.2	7,977.4	285.5	151.7	2.134	CC, ES
MYOX 30 STATE COM #706H - OWB - PWP2	17,600.0	7,978.3	286.0	151.8	2.130	SF

Offset Design	DAISY STATE PROJECT (ATLAS 2527) - DAISY 24 STATE COM 506H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-Standard Keeper 104, 7288-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	55.1	55.1	4.2	3.0	-98.61	-1,678.6	-11,087.2	11,213.5				
100.0	100.0	175.0	175.0	4.2	3.0	-98.61	-1,679.5	-11,087.2	11,213.7	11,206.5	7.24	1,548.037	
200.0	200.0	290.7	290.7	4.2	3.0	-98.62	-1,679.8	-11,087.0	11,213.5	11,206.3	7.25	1,547.088	
268.7	268.7	341.7	341.7	4.3	3.0	-98.62	-1,680.0	-11,086.9	11,213.5	11,206.2	7.25	1,546.296	
300.0	300.0	368.3	368.3	4.3	3.0	-98.62	-1,680.1	-11,086.9	11,213.5	11,206.3	7.25	1,545.857	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
DAISY STATE PROJECT (ATLAS 2527) - DAISY 24 STATE COM 506H - OWB - AWP												Offset Well Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 7288-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
400.0	400.0	412.2	412.2	4.3	3.0	-98.62	-1,680.3	-11,087.0	11,213.8	11,206.5	7.26	1,544.726	
500.0	500.0	519.5	519.4	4.3	3.0	-98.62	-1,681.3	-11,087.5	11,214.4	11,207.1	7.27	1,542.278	
600.0	600.0	611.4	611.4	4.3	3.1	-98.63	-1,682.0	-11,087.9	11,214.9	11,207.6	7.29	1,539.239	
700.0	700.0	750.0	750.0	4.3	3.1	-98.63	-1,683.3	-11,088.3	11,215.3	11,208.0	7.31	1,534.260	
800.0	800.0	947.8	947.8	4.4	3.2	-98.64	-1,684.3	-11,087.8	11,215.3	11,207.9	7.34	1,527.841	
900.0	900.0	1,066.7	1,066.6	4.4	3.2	-98.64	-1,684.9	-11,086.8	11,214.5	11,207.2	7.37	1,522.572	
1,000.0	1,000.0	1,183.1	1,183.1	4.4	3.3	-98.65	-1,685.7	-11,085.5	11,213.5	11,206.1	7.40	1,516.038	
1,100.0	1,100.0	1,300.0	1,299.9	4.5	3.3	-98.65	-1,686.3	-11,084.2	11,212.4	11,205.0	7.43	1,508.138	
1,200.0	1,200.0	1,800.0	1,799.7	4.5	3.5	-98.66	-1,685.9	-11,070.0	11,210.1	11,202.4	7.63	1,469.612	
1,300.0	1,300.0	1,825.0	1,824.6	4.5	3.5	-98.66	-1,685.8	-11,069.0	11,205.7	11,198.0	7.66	1,463.608	
1,400.0	1,400.0	1,825.0	1,824.6	4.6	3.5	-98.66	-1,685.8	-11,069.0	11,202.1	11,194.4	7.67	1,459.865	
1,500.0	1,500.0	1,850.0	1,849.6	4.6	3.5	-98.66	-1,685.6	-11,068.3	11,199.3	11,191.6	7.70	1,453.779	
1,600.0	1,600.0	2,175.0	2,174.4	4.7	3.7	-98.66	-1,683.9	-11,057.8	11,196.5	11,188.6	7.90	1,416.650	
1,700.0	1,700.0	2,200.0	2,199.4	4.8	3.7	-98.66	-1,683.9	-11,056.7	11,192.3	11,184.4	7.94	1,409.660	
1,800.0	1,800.0	2,225.0	2,224.4	4.8	3.7	-98.66	-1,683.8	-11,055.8	11,188.9	11,180.9	7.98	1,402.635	
1,900.0	1,900.0	2,239.0	2,238.4	4.9	3.7	-98.66	-1,683.8	-11,055.5	11,186.1	11,178.1	8.01	1,396.826	
2,000.0	2,000.0	2,264.7	2,264.0	5.0	3.8	-98.66	-1,683.7	-11,055.0	11,184.1	11,176.0	8.05	1,389.682	
2,100.0	2,100.0	2,300.0	2,299.4	5.0	3.8	-98.66	-1,683.6	-11,054.5	11,182.7	11,174.6	8.10	1,381.367	
2,200.0	2,200.0	2,355.3	2,354.7	5.1	3.8	-98.66	-1,683.6	-11,054.0	11,181.8	11,173.6	8.16	1,370.718	
2,300.0	2,300.0	2,474.2	2,473.5	5.2	3.9	-98.66	-1,683.7	-11,053.1	11,181.1	11,172.8	8.27	1,352.508	
2,400.0	2,400.0	2,542.5	2,541.8	5.2	4.0	-98.66	-1,683.8	-11,052.7	11,180.4	11,172.1	8.34	1,340.065	
2,500.0	2,500.0	2,642.0	2,641.3	5.3	4.1	-98.66	-1,683.8	-11,051.9	11,179.7	11,171.2	8.45	1,323.806	
2,600.0	2,600.0	2,750.0	2,749.4	5.3	4.1	95.36	-1,683.9	-11,051.2	11,179.2	11,170.6	8.56	1,306.198	
2,700.0	2,699.8	2,850.0	2,849.3	5.3	4.2	95.39	-1,683.8	-11,050.4	11,178.9	11,170.2	8.67	1,289.441	
2,702.4	2,702.3	2,850.0	2,849.3	5.3	4.2	95.39	-1,683.8	-11,050.4	11,178.9	11,170.2	8.67	1,289.336	
2,800.0	2,799.5	2,968.0	2,967.3	5.3	4.3	95.44	-1,683.3	-11,049.6	11,179.0	11,170.2	8.80	1,271.016	
2,900.0	2,898.9	3,036.7	3,036.1	5.3	4.3	95.48	-1,682.8	-11,049.2	11,179.2	11,170.4	8.88	1,259.260	
3,000.0	2,998.4	3,133.0	3,132.3	5.3	4.4	95.53	-1,682.1	-11,048.8	11,179.7	11,170.7	8.98	1,245.397	
3,100.0	3,097.8	3,200.0	3,199.3	5.2	4.4	95.57	-1,681.6	-11,048.6	11,180.3	11,171.3	9.05	1,235.191	
3,200.0	3,197.3	3,265.9	3,265.2	5.2	4.4	95.61	-1,681.1	-11,048.6	11,181.3	11,172.2	9.11	1,227.130	
3,300.0	3,296.7	3,357.8	3,357.1	5.2	4.4	95.66	-1,680.3	-11,048.8	11,182.4	11,173.2	9.18	1,218.279	
3,400.0	3,396.2	4,275.0	4,271.9	5.2	4.8	96.34	-1,638.5	-11,022.9	11,180.8	11,171.1	9.67	1,156.000	
3,500.0	3,495.6	4,550.0	4,545.4	5.2	5.0	96.57	-1,620.2	-11,002.4	11,172.9	11,163.0	9.95	1,123.104	
3,600.0	3,595.1	4,591.6	4,586.9	5.2	5.1	96.60	-1,618.2	-10,999.2	11,165.6	11,155.6	10.03	1,113.474	
3,700.0	3,694.5	4,650.0	4,645.0	5.2	5.1	96.64	-1,615.4	-10,994.9	11,158.8	11,148.6	10.12	1,102.157	
3,800.0	3,794.0	5,125.0	5,117.3	5.2	5.6	97.00	-1,588.8	-10,953.1	11,150.8	11,140.1	10.63	1,048.800	
3,900.0	3,893.4	5,175.0	5,167.0	5.2	5.6	97.04	-1,585.5	-10,948.0	11,141.0	11,130.3	10.73	1,038.686	
4,000.0	3,992.9	5,210.7	5,202.4	5.3	5.7	97.07	-1,583.2	-10,944.6	11,131.8	11,121.0	10.81	1,030.046	
4,100.0	4,092.3	5,264.9	5,256.3	5.3	5.7	97.11	-1,579.5	-10,939.6	11,123.0	11,112.1	10.91	1,019.705	
4,200.0	4,191.8	5,604.1	5,593.1	5.3	6.1	97.38	-1,559.9	-10,905.6	11,114.0	11,102.7	11.31	982.682	
4,300.0	4,291.2	5,675.0	5,663.5	5.3	6.2	97.43	-1,556.7	-10,897.5	11,103.4	11,091.9	11.44	970.923	
4,400.0	4,390.7	5,725.0	5,713.1	5.4	6.2	97.46	-1,554.4	-10,892.0	11,093.2	11,081.6	11.54	961.225	
4,500.0	4,490.1	5,766.2	5,754.0	5.4	6.3	97.49	-1,552.6	-10,887.7	11,083.5	11,071.9	11.64	952.409	
4,600.0	4,589.6	5,816.9	5,804.5	5.5	6.3	97.52	-1,550.5	-10,882.6	11,074.3	11,062.5	11.75	942.798	
4,700.0	4,689.0	5,875.0	5,862.3	5.5	6.4	97.56	-1,548.4	-10,876.9	11,065.5	11,053.7	11.87	932.616	
4,800.0	4,788.5	5,930.1	5,917.1	5.6	6.5	97.60	-1,546.4	-10,871.8	11,057.1	11,045.1	11.98	922.806	
4,900.0	4,887.9	5,975.0	5,961.8	5.6	6.5	97.63	-1,544.7	-10,867.7	11,049.1	11,037.0	12.09	913.968	
5,000.0	4,987.4	6,000.0	5,986.7	5.7	6.5	97.65	-1,543.8	-10,865.6	11,041.7	11,029.5	12.18	906.885	
5,100.0	5,086.9	6,025.0	6,011.6	5.7	6.6	97.66	-1,542.9	-10,863.8	11,035.0	11,022.8	12.26	899.856	
5,200.0	5,186.3	6,059.4	6,045.9	5.8	6.6	97.69	-1,541.8	-10,861.4	11,029.0	11,016.7	12.36	892.103	
5,300.0	5,285.8	6,100.0	6,086.4	5.9	6.6	97.71	-1,540.7	-10,858.7	11,023.5	11,011.1	12.47	883.887	
5,400.0	5,385.2	6,125.0	6,111.3	5.9	6.7	97.73	-1,540.1	-10,857.1	11,018.6	11,006.0	12.56	876.955	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
DAISY STATE PROJECT (ATLAS 2527) - DAISY 24 STATE COM 506H - OWB - AWP												Offset Well Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 7288-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,500.0	5,484.7	6,125.0	6,111.3	6.0	6.7	97.73	-1,540.1	-10,857.1	11,014.5	11,001.8	12.63	872.011	
5,600.0	5,584.1	6,125.0	6,111.3	6.1	6.7	97.73	-1,540.1	-10,857.1	11,011.3	10,998.6	12.70	867.056	
5,700.0	5,683.6	6,300.0	6,286.1	6.1	6.9	97.84	-1,536.2	-10,849.0	11,007.5	10,994.6	12.95	849.691	
5,800.0	5,783.0	6,325.0	6,311.0	6.2	6.9	97.86	-1,535.3	-10,847.9	11,004.4	10,991.4	13.05	843.167	
5,900.0	5,882.5	6,350.0	6,336.0	6.3	6.9	97.87	-1,534.3	-10,847.0	11,002.0	10,988.9	13.15	836.718	
6,000.0	5,981.9	6,375.0	6,361.0	6.4	6.9	97.89	-1,533.5	-10,846.3	11,000.3	10,987.1	13.25	830.374	
6,100.0	6,081.4	7,050.0	7,033.9	6.4	7.7	98.42	-1,497.2	-10,812.9	10,995.6	10,981.6	13.99	786.229	
6,200.0	6,180.8	7,541.0	7,519.8	6.5	8.0	98.55	-1,519.6	-10,763.1	10,987.8	10,973.4	14.39	763.769	
6,300.0	6,280.3	7,583.0	7,560.5	6.6	8.0	98.52	-1,528.2	-10,757.6	10,978.1	10,963.6	14.49	757.725	
6,400.0	6,379.7	7,583.0	7,560.5	6.7	8.0	98.52	-1,528.2	-10,757.6	10,969.1	10,954.5	14.56	753.213	
6,500.0	6,479.2	7,583.0	7,560.5	6.8	8.0	98.52	-1,528.2	-10,757.6	10,960.9	10,946.3	14.64	748.691	
6,600.0	6,578.6	7,821.0	7,772.0	6.8	8.2	98.11	-1,626.5	-10,726.8	10,953.3	10,938.3	14.99	730.768	
6,700.0	6,678.1	7,847.4	7,791.0	6.9	8.3	98.02	-1,644.4	-10,722.9	10,944.8	10,929.7	15.12	723.987	
6,800.0	6,777.5	7,868.0	7,804.8	7.0	8.3	97.95	-1,659.4	-10,719.9	10,937.1	10,921.9	15.24	717.801	
6,900.0	6,877.0	7,868.0	7,804.8	7.1	8.3	97.95	-1,659.4	-10,719.9	10,930.3	10,915.0	15.32	713.467	
7,000.0	6,976.4	7,868.0	7,804.8	7.2	8.3	97.95	-1,659.4	-10,719.9	10,924.3	10,908.9	15.41	709.121	
7,100.0	7,075.9	7,868.0	7,804.8	7.3	8.3	97.95	-1,659.4	-10,719.9	10,919.3	10,903.8	15.49	704.763	
7,200.0	7,175.3	7,893.1	7,820.6	7.4	8.4	97.86	-1,678.6	-10,716.6	10,914.8	10,899.2	15.64	697.930	
7,300.0	7,274.8	7,915.0	7,833.5	7.5	8.4	97.77	-1,696.1	-10,714.1	10,911.5	10,895.8	15.78	691.511	
7,400.0	7,374.3	7,915.0	7,833.5	7.6	8.4	97.77	-1,696.1	-10,714.1	10,909.0	10,893.1	15.87	687.180	
7,500.0	7,473.7	7,915.0	7,833.5	7.7	8.4	97.77	-1,696.1	-10,714.1	10,907.3	10,891.3	15.97	682.831	
7,580.8	7,554.1	7,915.0	7,833.5	7.7	8.4	97.77	-1,696.1	-10,714.1	10,906.6	10,890.6	16.02	680.910	
7,600.0	7,573.1	7,915.0	7,833.5	7.7	8.4	79.51	-1,696.1	-10,714.1	10,906.2	10,890.1	16.02	680.746	
7,625.0	7,597.9	7,915.0	7,833.5	7.7	8.4	63.86	-1,696.1	-10,714.1	10,904.6	10,888.6	16.03	680.366	
7,650.0	7,622.5	7,915.0	7,833.5	7.7	8.4	54.53	-1,696.1	-10,714.1	10,901.9	10,885.9	16.04	679.795	
7,675.0	7,646.9	7,915.0	7,833.5	7.7	8.4	48.73	-1,696.1	-10,714.1	10,898.1	10,882.0	16.05	679.043	
7,700.0	7,670.9	7,915.0	7,833.5	7.7	8.4	44.93	-1,696.1	-10,714.1	10,893.2	10,877.1	16.06	678.112	
7,725.0	7,694.7	7,915.0	7,833.5	7.8	8.4	42.36	-1,696.1	-10,714.1	10,887.1	10,871.0	16.08	677.003	
7,750.0	7,718.0	7,915.0	7,833.5	7.8	8.4	40.60	-1,696.1	-10,714.1	10,880.0	10,863.9	16.10	675.717	
7,775.0	7,740.8	7,915.0	7,833.5	7.8	8.4	39.41	-1,696.1	-10,714.1	10,871.8	10,855.7	16.12	674.256	
7,800.0	7,763.0	7,915.0	7,833.5	7.8	8.4	38.64	-1,696.1	-10,714.1	10,862.6	10,846.4	16.15	672.623	
7,825.0	7,784.7	7,915.0	7,833.5	7.8	8.4	38.20	-1,696.1	-10,714.1	10,852.3	10,836.1	16.18	670.821	
7,850.0	7,805.7	7,915.0	7,833.5	7.9	8.4	38.05	-1,696.1	-10,714.1	10,841.0	10,824.8	16.21	668.857	
7,875.0	7,825.9	7,915.0	7,833.5	7.9	8.4	38.14	-1,696.1	-10,714.1	10,828.7	10,812.5	16.24	666.737	
7,900.0	7,845.4	7,915.0	7,833.5	7.9	8.4	38.45	-1,696.1	-10,714.1	10,815.5	10,799.2	16.28	664.468	
7,925.0	7,864.0	7,915.0	7,833.5	8.0	8.4	38.97	-1,696.1	-10,714.1	10,801.4	10,785.1	16.31	662.060	
7,950.0	7,881.7	7,915.0	7,833.5	8.0	8.4	39.71	-1,696.1	-10,714.1	10,786.4	10,770.1	16.35	659.525	
7,975.0	7,898.5	7,915.0	7,833.5	8.1	8.4	40.65	-1,696.1	-10,714.1	10,770.6	10,754.2	16.40	656.876	
8,000.0	7,914.4	7,915.0	7,833.5	8.1	8.4	41.82	-1,696.1	-10,714.1	10,753.9	10,737.5	16.44	654.126	
8,025.0	7,929.2	7,915.0	7,833.5	8.1	8.4	43.23	-1,696.1	-10,714.1	10,736.5	10,720.1	16.48	651.292	
8,050.0	7,942.9	7,915.0	7,833.5	8.2	8.4	44.90	-1,696.1	-10,714.1	10,718.4	10,701.9	16.53	648.390	
8,075.0	7,955.5	7,915.0	7,833.5	8.2	8.4	46.85	-1,696.1	-10,714.1	10,699.7	10,683.1	16.58	645.437	
8,100.0	7,967.0	7,915.0	7,833.5	8.3	8.4	49.12	-1,696.1	-10,714.1	10,680.3	10,663.6	16.62	642.451	
8,125.0	7,977.3	7,937.2	7,845.5	8.3	8.5	51.71	-1,714.6	-10,712.2	10,659.9	10,643.2	16.72	637.390	
8,150.0	7,986.4	7,938.0	7,846.0	8.4	8.5	54.73	-1,715.4	-10,712.2	10,639.4	10,622.6	16.77	634.330	
8,175.0	7,994.3	7,938.9	7,846.4	8.5	8.5	58.19	-1,716.1	-10,712.1	10,618.4	10,601.6	16.82	631.293	
8,200.0	8,001.0	7,939.7	7,846.8	8.5	8.5	62.13	-1,716.8	-10,712.1	10,597.0	10,580.2	16.87	628.294	
8,225.0	8,006.3	7,962.0	7,857.7	8.6	8.6	66.58	-1,736.2	-10,710.8	10,575.7	10,558.7	16.96	623.469	
8,250.0	8,010.4	7,962.0	7,857.7	8.7	8.6	71.55	-1,736.2	-10,710.8	10,553.6	10,536.6	17.00	620.668	
8,275.0	8,013.3	7,962.0	7,857.7	8.8	8.6	77.02	-1,736.2	-10,710.8	10,531.3	10,514.2	17.04	617.940	
8,300.0	8,014.8	7,962.0	7,857.7	8.9	8.6	82.93	-1,736.2	-10,710.8	10,508.8	10,491.7	17.08	615.292	
8,320.6	8,015.1	7,962.0	7,857.7	9.0	8.6	88.05	-1,736.2	-10,710.8	10,490.2	10,473.1	17.11	613.167	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
DAISY STATE PROJECT (ATLAS 2527) - DAISY 24 STATE COM 506H - OWB - AWP												Offset Well Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 7288-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,400.0	8,014.4	7,962.0	7,857.7	9.5	8.6	87.94	-1,736.2	-10,710.8	10,418.0	10,400.8	17.22	605.032	
8,500.0	8,013.6	7,962.0	7,857.7	10.1	8.6	87.79	-1,736.2	-10,710.8	10,325.9	10,308.5	17.37	594.348	
8,600.0	8,012.7	7,962.0	7,857.7	10.8	8.6	87.61	-1,736.2	-10,710.8	10,232.6	10,215.1	17.54	583.446	
8,700.0	8,011.9	7,962.0	7,857.7	11.5	8.6	87.38	-1,736.2	-10,710.8	10,138.3	10,120.6	17.71	572.529	
8,800.0	8,011.1	7,962.0	7,857.7	12.4	8.6	87.10	-1,736.2	-10,710.8	10,042.9	10,025.0	17.88	561.742	
8,900.0	8,010.2	7,962.0	7,857.7	13.2	8.6	86.74	-1,736.2	-10,710.8	9,946.6	9,928.6	18.05	551.206	
9,000.0	8,009.4	7,962.0	7,857.7	14.1	8.6	86.26	-1,736.2	-10,710.8	9,849.5	9,831.3	18.21	541.020	
9,100.0	8,008.5	7,962.0	7,857.7	15.0	8.6	85.61	-1,736.2	-10,710.8	9,751.7	9,733.4	18.36	531.259	
9,200.0	8,007.7	7,962.0	7,857.7	15.9	8.6	84.68	-1,736.2	-10,710.8	9,653.3	9,634.8	18.49	521.982	
9,300.0	8,006.8	7,962.0	7,857.7	16.8	8.6	83.22	-1,736.2	-10,710.8	9,554.3	9,535.7	18.62	513.233	
9,400.0	8,006.0	7,962.0	7,857.7	17.7	8.6	80.68	-1,736.2	-10,710.8	9,454.9	9,436.2	18.72	505.044	
9,500.0	8,005.1	7,962.0	7,857.7	18.7	8.6	75.19	-1,736.2	-10,710.8	9,355.2	9,336.4	18.81	497.432	
9,600.0	8,004.3	7,962.0	7,857.7	19.6	8.6	56.29	-1,736.2	-10,710.8	9,255.3	9,236.4	18.87	490.407	
9,700.0	8,003.5	7,962.0	7,857.7	20.6	8.6	-36.86	-1,736.2	-10,710.8	9,155.3	9,136.4	18.92	483.971	
9,800.0	8,002.7	7,962.0	7,857.7	21.6	8.6	-71.29	-1,736.2	-10,710.8	9,055.4	9,036.4	18.94	478.114	
9,815.2	8,002.5	7,962.0	7,857.7	21.7	8.6	-73.06	-1,736.2	-10,710.8	9,040.2	9,021.2	18.94	477.279	
9,900.0	8,001.8	7,962.0	7,857.7	22.5	8.6	-73.06	-1,736.2	-10,710.8	8,955.5	8,936.6	18.95	472.598	
10,000.0	8,001.0	7,962.0	7,857.7	23.5	8.6	-73.06	-1,736.2	-10,710.8	8,855.7	8,836.7	18.96	467.027	
10,100.0	8,000.2	7,962.0	7,857.7	24.5	8.6	-73.06	-1,736.2	-10,710.8	8,755.8	8,736.9	18.98	461.409	
10,200.0	7,999.4	7,962.0	7,857.7	25.5	8.6	-73.06	-1,736.2	-10,710.8	8,656.0	8,637.0	18.99	455.745	
10,300.0	7,998.6	7,962.0	7,857.7	26.5	8.6	-73.06	-1,736.2	-10,710.8	8,556.2	8,537.1	19.01	450.037	
10,400.0	7,997.8	7,962.0	7,857.7	27.6	8.6	-73.06	-1,736.2	-10,710.8	8,456.3	8,437.3	19.03	444.287	
10,500.0	7,996.9	7,962.0	7,857.7	28.6	8.6	-73.06	-1,736.2	-10,710.8	8,356.5	8,337.4	19.06	438.499	
10,600.0	7,996.1	7,962.0	7,857.7	29.6	8.6	-73.06	-1,736.2	-10,710.8	8,256.7	8,237.6	19.08	432.673	
10,700.0	7,995.3	7,962.0	7,857.7	30.7	8.6	-73.06	-1,736.2	-10,710.8	8,156.9	8,137.8	19.11	426.812	
10,800.0	7,994.5	7,962.0	7,857.7	31.7	8.6	-73.06	-1,736.2	-10,710.8	8,057.0	8,037.9	19.14	420.918	
10,900.0	7,993.7	7,962.0	7,857.7	32.8	8.6	-73.06	-1,736.2	-10,710.8	7,957.2	7,938.1	19.17	414.995	
11,000.0	7,992.8	7,962.0	7,857.7	33.8	8.6	-73.06	-1,736.2	-10,710.8	7,857.4	7,838.2	19.21	409.043	
11,100.0	7,992.0	7,962.0	7,857.7	34.9	8.6	-73.06	-1,736.2	-10,710.8	7,757.6	7,738.4	19.25	403.065	
11,200.0	7,991.2	7,962.0	7,857.7	35.9	8.6	-73.06	-1,736.2	-10,710.8	7,657.8	7,638.6	19.29	397.064	
11,300.0	7,990.4	7,962.0	7,857.7	37.0	8.6	-73.06	-1,736.2	-10,710.8	7,558.1	7,538.7	19.33	391.041	
11,400.0	7,989.6	7,962.0	7,857.7	38.1	8.6	-73.06	-1,736.2	-10,710.8	7,458.3	7,438.9	19.37	384.999	
11,500.0	7,988.8	7,962.0	7,857.7	39.1	8.6	-73.06	-1,736.2	-10,710.8	7,358.5	7,339.1	19.42	378.940	
11,600.0	7,987.9	7,962.0	7,857.7	40.2	8.6	-73.06	-1,736.2	-10,710.8	7,258.7	7,239.3	19.47	372.865	
11,700.0	7,987.1	7,962.0	7,857.7	41.3	8.6	-73.06	-1,736.2	-10,710.8	7,159.0	7,139.4	19.52	366.777	
11,800.0	7,986.3	7,962.0	7,857.7	42.4	8.6	-73.06	-1,736.2	-10,710.8	7,059.2	7,039.6	19.57	360.678	
11,900.0	7,985.5	7,962.0	7,857.7	43.4	8.6	-73.06	-1,736.2	-10,710.8	6,959.4	6,939.8	19.63	354.569	
12,000.0	7,984.7	7,962.0	7,857.7	44.5	8.6	-73.06	-1,736.2	-10,710.8	6,859.7	6,840.0	19.69	348.453	
12,100.0	7,983.9	7,962.0	7,857.7	45.6	8.6	-73.06	-1,736.2	-10,710.8	6,760.0	6,740.2	19.75	342.331	
12,200.0	7,983.0	7,962.0	7,857.7	46.7	8.6	-73.06	-1,736.2	-10,710.8	6,660.2	6,640.4	19.81	336.205	
12,300.0	7,982.2	7,962.0	7,857.7	47.8	8.6	-73.06	-1,736.2	-10,710.8	6,560.5	6,540.6	19.88	330.076	
12,400.0	7,981.4	7,962.0	7,857.7	48.9	8.6	-73.06	-1,736.2	-10,710.8	6,460.8	6,440.9	19.94	323.947	
12,500.0	7,980.6	7,962.0	7,857.7	50.0	8.6	-73.06	-1,736.2	-10,710.8	6,361.1	6,341.1	20.01	317.817	
12,600.0	7,979.8	7,962.0	7,857.7	51.0	8.6	-73.06	-1,736.2	-10,710.8	6,261.4	6,241.3	20.09	311.690	
12,700.0	7,979.0	7,962.0	7,857.7	52.1	8.6	-73.06	-1,736.2	-10,710.8	6,161.7	6,141.6	20.16	305.566	
12,800.0	7,978.1	7,962.0	7,857.7	53.2	8.6	-73.06	-1,736.2	-10,710.8	6,062.1	6,041.8	20.24	299.447	
12,900.0	7,977.3	7,962.0	7,857.7	54.3	8.6	-73.06	-1,736.2	-10,710.8	5,962.4	5,942.1	20.33	293.333	
13,000.0	7,976.5	7,962.0	7,857.7	55.4	8.6	-73.06	-1,736.2	-10,710.8	5,862.7	5,842.3	20.41	287.226	
13,100.0	7,975.7	7,962.0	7,857.7	56.5	8.6	-73.06	-1,736.2	-10,710.8	5,763.1	5,742.6	20.50	281.126	
13,171.4	7,975.1	7,962.0	7,857.7	57.3	8.6	-73.06	-1,736.2	-10,710.8	5,692.0	5,671.4	20.57	276.778	
13,200.0	7,974.9	7,962.0	7,857.7	57.6	8.6	-74.78	-1,736.2	-10,710.8	5,663.5	5,642.9	20.59	275.044	
13,245.7	7,974.5	7,962.0	7,857.7	58.1	8.6	-76.90	-1,736.2	-10,710.8	5,618.0	5,597.4	20.63	272.300	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
DAISY STATE PROJECT (ATLAS 2527) - DAISY 24 STATE COM 506H - OWB - AWP												Offset Well Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 7288-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.0	7,974.0	7,962.0	7,857.7	58.7	8.6	-76.90	-1,736.2	-10,710.8	5,564.1	5,543.4	20.68	269.051	
13,400.0	7,973.2	7,962.0	7,857.7	59.8	8.6	-76.90	-1,736.2	-10,710.8	5,464.8	5,444.0	20.78	263.042	
13,500.0	7,972.4	7,962.0	7,857.7	60.9	8.6	-76.90	-1,736.2	-10,710.8	5,365.5	5,344.6	20.88	257.017	
13,600.0	7,971.6	7,962.0	7,857.7	62.0	8.6	-76.90	-1,736.2	-10,710.8	5,266.2	5,245.2	20.98	250.975	
13,700.0	7,970.8	7,962.0	7,857.7	63.1	8.6	-76.90	-1,736.2	-10,710.8	5,166.9	5,145.8	21.10	244.918	
13,800.0	7,969.9	7,940.8	7,847.4	64.2	8.5	-75.59	-1,717.7	-10,712.0	5,067.3	5,046.1	21.17	239.365	
13,900.0	7,969.1	7,939.8	7,846.9	65.3	8.5	-75.52	-1,716.9	-10,712.0	4,968.1	4,946.8	21.29	233.341	
14,000.0	7,968.3	7,938.7	7,846.3	66.4	8.5	-75.45	-1,716.0	-10,712.1	4,868.9	4,847.5	21.42	227.308	
14,100.0	7,967.5	7,937.6	7,845.8	67.5	8.5	-75.38	-1,715.0	-10,712.2	4,769.7	4,748.1	21.56	221.268	
14,200.0	7,966.7	7,936.5	7,845.2	68.6	8.5	-75.31	-1,714.1	-10,712.3	4,670.6	4,648.9	21.70	215.222	
14,300.0	7,965.8	7,915.0	7,833.5	69.7	8.4	-73.80	-1,696.1	-10,714.1	4,571.8	4,550.0	21.79	209.803	
14,400.0	7,965.0	7,915.0	7,833.5	70.8	8.4	-73.80	-1,696.1	-10,714.1	4,472.7	4,450.8	21.95	203.743	
14,500.0	7,964.2	7,915.0	7,833.5	71.9	8.4	-73.80	-1,696.1	-10,714.1	4,373.6	4,351.5	22.13	197.676	
14,600.0	7,963.4	7,915.0	7,833.5	73.0	8.4	-73.80	-1,696.1	-10,714.1	4,274.6	4,252.3	22.31	191.602	
14,700.0	7,962.6	7,915.0	7,833.5	74.1	8.4	-73.80	-1,696.1	-10,714.1	4,175.6	4,153.1	22.51	185.522	
14,800.0	7,961.7	7,915.0	7,833.5	75.2	8.4	-73.80	-1,696.1	-10,714.1	4,076.7	4,054.0	22.72	179.437	
14,900.0	7,960.9	7,915.0	7,833.5	76.3	8.4	-73.80	-1,696.1	-10,714.1	3,977.8	3,954.9	22.95	173.348	
15,000.0	7,960.1	7,915.0	7,833.5	77.4	8.4	-73.80	-1,696.1	-10,714.1	3,879.0	3,855.8	23.19	167.258	
15,100.0	7,959.3	7,915.0	7,833.5	78.5	8.4	-73.80	-1,696.1	-10,714.1	3,780.3	3,756.8	23.46	161.168	
15,200.0	7,958.5	7,915.0	7,833.5	79.6	8.4	-73.80	-1,696.1	-10,714.1	3,681.6	3,657.9	23.74	155.080	
15,300.0	7,957.6	7,915.0	7,833.5	80.7	8.4	-73.80	-1,696.1	-10,714.1	3,583.0	3,558.9	24.05	148.998	
15,400.0	7,956.8	7,915.0	7,833.5	81.8	8.4	-73.80	-1,696.1	-10,714.1	3,484.4	3,460.1	24.38	142.924	
15,500.0	7,956.0	7,915.0	7,833.5	82.9	8.4	-73.80	-1,696.1	-10,714.1	3,386.0	3,361.3	24.74	136.863	
15,600.0	7,955.2	7,915.0	7,833.5	84.0	8.4	-73.80	-1,696.1	-10,714.1	3,287.6	3,262.5	25.13	130.819	
15,700.0	7,954.4	7,915.0	7,833.5	85.1	8.4	-73.80	-1,696.1	-10,714.1	3,189.4	3,163.8	25.56	124.798	
15,800.0	7,953.5	7,915.0	7,833.5	86.2	8.4	-73.80	-1,696.1	-10,714.1	3,091.3	3,065.2	26.02	118.804	
15,900.0	7,952.7	7,915.0	7,833.5	87.3	8.4	-73.80	-1,696.1	-10,714.1	2,993.2	2,966.7	26.53	112.845	
16,000.0	7,951.9	7,915.0	7,833.5	88.4	8.4	-73.80	-1,696.1	-10,714.1	2,895.4	2,868.3	27.08	106.928	
16,100.0	7,951.1	7,915.0	7,833.5	89.5	8.4	-73.80	-1,696.1	-10,714.1	2,797.6	2,769.9	27.68	101.062	
16,200.0	7,950.3	7,915.0	7,833.5	90.6	8.4	-73.80	-1,696.1	-10,714.1	2,700.1	2,671.7	28.35	95.256	
16,300.0	7,949.4	7,915.0	7,833.5	91.8	8.4	-73.80	-1,696.1	-10,714.1	2,602.7	2,573.6	29.07	89.520	
16,400.0	7,948.6	7,894.7	7,821.5	92.9	8.4	-72.25	-1,679.8	-10,716.4	2,505.2	2,475.6	29.51	84.883	
16,500.0	7,947.8	7,891.4	7,819.6	94.0	8.4	-71.99	-1,677.3	-10,716.8	2,408.1	2,377.8	30.31	79.456	
16,600.0	7,947.0	7,888.0	7,817.5	95.1	8.4	-71.72	-1,674.7	-10,717.2	2,311.2	2,280.1	31.18	74.127	
16,700.0	7,946.2	7,868.0	7,804.8	96.2	8.3	-70.05	-1,659.4	-10,719.9	2,214.9	2,183.1	31.81	69.635	
16,800.0	7,945.3	7,868.0	7,804.8	97.3	8.3	-70.05	-1,659.4	-10,719.9	2,118.5	2,085.6	32.92	64.347	
16,900.0	7,944.5	7,868.0	7,804.8	98.4	8.3	-70.05	-1,659.4	-10,719.9	2,022.5	1,988.3	34.17	59.191	
17,000.0	7,943.7	7,868.0	7,804.8	99.5	8.3	-70.05	-1,659.4	-10,719.9	1,926.8	1,891.3	35.56	54.183	
17,100.0	7,942.9	7,868.0	7,804.8	100.6	8.3	-70.05	-1,659.4	-10,719.9	1,831.7	1,794.5	37.12	49.339	
17,200.0	7,942.1	7,868.0	7,804.8	101.7	8.3	-70.05	-1,659.4	-10,719.9	1,737.0	1,698.2	38.88	44.674	
17,300.0	7,941.2	7,868.0	7,804.8	102.8	8.3	-70.05	-1,659.4	-10,719.9	1,643.1	1,602.2	40.87	40.204	
17,400.0	7,940.4	7,851.6	7,793.9	103.9	8.3	-68.61	-1,647.4	-10,722.2	1,549.6	1,507.0	42.57	36.397	
17,500.0	7,939.6	7,845.7	7,789.8	105.1	8.3	-68.07	-1,643.2	-10,723.1	1,457.0	1,412.1	44.88	32.464	
17,600.0	7,938.8	7,839.7	7,785.6	106.2	8.3	-67.52	-1,639.0	-10,724.0	1,365.4	1,317.9	47.51	28.738	
17,700.0	7,938.0	7,821.0	7,772.0	107.3	8.2	-65.74	-1,626.5	-10,726.8	1,275.2	1,225.1	50.08	25.461	
17,800.0	7,937.1	7,821.0	7,772.0	108.4	8.2	-65.74	-1,626.5	-10,726.8	1,186.1	1,132.3	53.75	22.066	
17,900.0	7,936.3	7,821.0	7,772.0	109.5	8.2	-65.74	-1,626.5	-10,726.8	1,098.9	1,040.9	57.99	18.950	
17,996.2	7,935.5	7,821.0	7,772.0	110.6	8.2	-65.74	-1,626.5	-10,726.8	1,017.2	954.5	62.69	16.226 CC, ES, SF	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

MOODY ST COM PROJECT - MOODY 17 FEE COM #1 - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 208-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-98.64	-866.0	-5,700.9	5,766.3					
100.0	100.0	97.0	97.0	3.0	3.1	-98.64	-866.0	-5,700.9	5,766.3	5,760.2	6.15	937.825		
200.0	200.0	197.0	197.0	3.0	3.6	-98.64	-866.0	-5,700.9	5,766.3	5,759.7	6.57	877.085		
300.0	300.0	297.0	297.0	3.0	4.8	-98.64	-866.0	-5,700.9	5,766.3	5,758.5	7.85	734.759		
400.0	400.0	397.0	397.0	3.0	6.5	-98.64	-866.0	-5,700.9	5,766.3	5,756.8	9.51	606.038		
437.1	437.1	433.3	433.3	3.0	7.1	-98.63	-865.4	-5,700.9	5,766.2	5,756.1	10.16	567.588		
500.0	500.0	494.5	494.5	3.1	8.3	-98.63	-865.5	-5,700.9	5,766.2	5,755.0	11.27	511.515		
600.0	600.0	591.7	591.7	3.1	10.1	-98.64	-865.9	-5,700.9	5,766.3	5,753.2	13.09	440.521		
700.0	700.0	697.0	697.0	3.1	12.3	-98.64	-866.0	-5,700.9	5,766.3	5,751.0	15.30	376.916		
729.5	729.5	726.3	726.3	3.1	12.9	-98.63	-865.6	-5,700.9	5,766.3	5,750.3	15.93	362.055		
800.0	800.0	793.6	793.6	3.2	14.3	-98.64	-865.8	-5,700.9	5,766.3	5,748.9	17.38	331.866		
900.0	900.0	897.1	897.0	3.2	16.7	-98.64	-866.0	-5,700.9	5,766.3	5,746.6	19.76	291.767		
954.6	954.6	951.5	951.0	3.2	18.0	-98.63	-865.3	-5,700.9	5,766.2	5,745.1	21.09	273.379		
1,000.0	1,000.0	992.7	992.6	3.2	19.0	-98.63	-865.4	-5,700.9	5,766.2	5,744.1	22.10	260.909		
1,100.0	1,100.0	1,097.2	1,097.0	3.3	21.5	-98.64	-866.0	-5,700.9	5,766.3	5,741.7	24.64	234.050		
1,192.5	1,192.5	1,189.4	1,189.2	3.3	23.7	-98.63	-865.2	-5,700.9	5,766.2	5,739.3	26.85	214.786		
1,200.0	1,200.0	1,196.3	1,196.1	3.4	23.9	-98.63	-865.2	-5,700.9	5,766.2	5,739.2	27.01	213.471		
1,300.0	1,300.0	1,288.1	1,287.9	3.4	26.1	-98.63	-865.7	-5,700.9	5,766.3	5,737.1	29.22	197.358		
1,400.0	1,400.0	1,397.2	1,397.0	3.5	28.8	-98.64	-866.0	-5,700.9	5,766.3	5,734.4	31.93	180.606		
1,493.4	1,493.4	1,490.5	1,490.3	3.5	31.1	-98.63	-865.1	-5,700.9	5,766.2	5,731.9	34.27	168.249		
1,500.0	1,500.0	1,496.7	1,496.5	3.5	31.3	-98.63	-865.1	-5,700.9	5,766.2	5,731.7	34.43	167.484		
1,600.0	1,600.0	1,591.6	1,591.4	3.6	33.6	-98.63	-865.4	-5,700.9	5,766.2	5,729.4	36.82	156.618		
1,700.0	1,700.0	1,697.4	1,697.0	3.7	36.3	-98.64	-866.0	-5,700.9	5,766.3	5,726.8	39.52	145.919		
1,792.9	1,792.9	1,790.1	1,789.8	3.8	38.7	-98.63	-865.0	-5,700.9	5,766.2	5,724.2	41.96	137.430		
1,800.0	1,800.0	1,796.6	1,796.2	3.8	38.9	-98.63	-865.0	-5,700.9	5,766.2	5,724.0	42.13	136.879		
1,900.0	1,900.0	1,887.2	1,886.8	3.9	41.2	-98.63	-865.6	-5,700.9	5,766.3	5,721.8	44.51	129.538		
2,000.0	2,000.0	1,997.5	1,997.0	3.9	44.0	-98.64	-866.0	-5,700.9	5,766.3	5,719.0	47.34	121.809		
2,045.5	2,045.5	2,043.0	2,042.5	4.0	45.2	-98.63	-865.2	-5,700.9	5,766.2	5,717.7	48.50	118.901		
2,100.0	2,100.0	2,093.0	2,092.5	4.0	46.4	-98.63	-865.3	-5,700.9	5,766.2	5,716.4	49.77	115.858		
2,200.0	2,200.0	2,197.5	2,197.0	4.1	49.0	-98.64	-866.0	-5,700.9	5,766.3	5,713.9	52.37	110.102		
2,300.0	2,300.0	2,297.5	2,297.0	4.2	51.3	-98.64	-866.0	-5,700.9	5,766.3	5,711.6	54.72	105.383		
2,400.0	2,400.0	2,397.5	2,397.0	4.3	53.6	-98.64	-866.0	-5,700.9	5,766.3	5,709.3	57.06	101.050		
2,440.2	2,440.2	2,436.8	2,436.2	4.3	54.5	-98.62	-864.4	-5,700.9	5,766.1	5,708.1	57.99	99.440		
2,500.0	2,500.0	2,494.0	2,493.4	4.4	55.9	-98.62	-864.6	-5,700.9	5,766.1	5,706.8	59.33	97.188		
2,600.0	2,600.0	2,589.6	2,589.0	4.4	58.1	95.38	-865.2	-5,700.9	5,766.4	5,704.8	61.58	93.645		
2,700.0	2,699.8	2,697.5	2,696.8	4.4	60.5	95.42	-866.0	-5,700.9	5,767.0	5,702.9	64.04	90.057		
2,800.0	2,799.5	2,797.1	2,796.5	4.4	62.6	95.49	-866.0	-5,700.9	5,767.8	5,701.6	66.18	87.153		
2,900.0	2,898.9	2,896.6	2,895.9	4.3	64.7	95.59	-866.0	-5,700.9	5,768.8	5,700.5	68.32	84.437		
3,000.0	2,998.4	2,993.2	2,992.6	4.3	66.7	95.70	-865.1	-5,700.9	5,769.7	5,699.3	70.41	81.950		
3,100.0	3,097.8	3,089.9	3,089.2	4.3	68.8	95.79	-865.6	-5,700.9	5,770.9	5,698.4	72.49	79.609		
3,200.0	3,197.3	3,195.0	3,194.3	4.3	70.9	95.90	-866.0	-5,700.9	5,772.0	5,697.4	74.60	77.372		
3,300.0	3,296.7	3,294.4	3,293.7	4.3	72.7	96.00	-866.0	-5,700.9	5,773.1	5,696.6	76.46	75.500		
3,400.0	3,396.2	3,393.8	3,393.1	4.3	74.5	96.11	-864.9	-5,700.9	5,774.0	5,695.7	78.33	73.716		
3,500.0	3,495.6	3,490.6	3,489.9	4.3	76.3	96.21	-865.1	-5,700.9	5,775.2	5,695.0	80.15	72.056		
3,600.0	3,595.1	3,587.5	3,586.8	4.3	78.0	96.31	-865.6	-5,700.9	5,776.4	5,694.4	81.97	70.469		
3,700.0	3,694.5	3,692.3	3,691.5	4.3	80.0	96.41	-866.0	-5,700.9	5,777.6	5,693.7	83.95	68.825		
3,800.0	3,794.0	3,791.7	3,791.0	4.3	81.8	96.51	-866.0	-5,700.9	5,778.8	5,693.0	85.83	67.325		
3,900.0	3,893.4	3,891.0	3,890.2	4.3	83.6	96.62	-865.8	-5,700.9	5,780.0	5,692.2	87.72	65.891		
4,000.0	3,992.9	3,989.8	3,989.0	4.3	85.4	96.72	-865.8	-5,700.9	5,781.2	5,691.6	89.60	64.524		
4,100.0	4,092.3	4,088.6	4,087.8	4.3	87.3	96.82	-866.0	-5,700.9	5,782.5	5,691.0	91.48	63.211		
4,200.0	4,191.8	4,189.6	4,188.8	4.4	89.2	96.92	-866.0	-5,700.9	5,783.7	5,690.2	93.50	61.858		
4,300.0	4,291.2	4,289.0	4,288.2	4.4	91.2	97.03	-866.0	-5,700.9	5,785.0	5,689.5	95.50	60.579		

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 208-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,400.0	4,390.7	4,387.2	4,386.4	4.4	93.1	97.14	-865.0	-5,700.9	5,786.2	5,688.7	97.47	59.365	
4,500.0	4,490.1	4,484.4	4,483.6	4.5	95.0	97.23	-865.3	-5,700.9	5,787.5	5,688.1	99.42	58.212	
4,600.0	4,589.6	4,587.4	4,586.6	4.6	96.9	97.33	-866.0	-5,700.9	5,788.9	5,687.5	101.47	57.049	
4,700.0	4,689.0	4,686.9	4,686.0	4.6	98.6	97.43	-866.0	-5,700.9	5,790.3	5,687.1	103.22	56.097	
4,800.0	4,788.5	4,786.3	4,785.5	4.7	100.3	97.54	-866.0	-5,700.9	5,791.6	5,686.7	104.97	55.176	
4,900.0	4,887.9	4,885.2	4,884.3	4.7	102.0	97.64	-865.5	-5,700.9	5,793.0	5,686.3	106.71	54.289	
5,000.0	4,987.4	4,983.5	4,982.7	4.8	103.6	97.74	-865.7	-5,700.9	5,794.4	5,686.0	108.44	53.435	
5,100.0	5,086.9	5,084.7	5,083.9	4.9	105.4	97.84	-866.0	-5,700.9	5,795.9	5,685.6	110.24	52.577	
5,200.0	5,186.3	5,184.2	5,183.3	5.0	107.2	97.94	-866.0	-5,700.9	5,797.3	5,685.1	112.17	51.682	
5,300.0	5,285.8	5,283.6	5,282.8	5.0	109.1	98.04	-866.0	-5,700.9	5,798.8	5,684.7	114.11	50.817	
5,400.0	5,385.2	5,382.7	5,381.8	5.1	110.9	98.15	-865.8	-5,700.9	5,800.2	5,684.2	116.04	49.983	
5,500.0	5,484.7	5,481.6	5,480.8	5.2	112.8	98.25	-865.9	-5,700.9	5,801.7	5,683.8	117.98	49.178	
5,600.0	5,584.1	5,582.0	5,581.1	5.3	114.7	98.35	-866.0	-5,700.9	5,803.3	5,683.3	120.01	48.357	
5,700.0	5,683.6	5,681.5	5,680.6	5.4	116.9	98.45	-866.0	-5,700.9	5,804.8	5,682.6	122.21	47.500	
5,800.0	5,783.0	5,780.9	5,780.0	5.4	119.0	98.55	-866.0	-5,700.9	5,806.4	5,681.9	124.40	46.673	
5,900.0	5,882.5	5,878.9	5,878.0	5.5	121.1	98.66	-865.0	-5,700.9	5,807.8	5,681.3	126.57	45.885	
6,000.0	5,981.9	5,976.6	5,975.7	5.6	123.1	98.76	-865.5	-5,700.9	5,809.5	5,680.7	128.74	45.126	
6,100.0	6,081.4	6,079.3	6,078.4	5.7	125.3	98.86	-866.0	-5,700.9	5,811.1	5,680.1	131.01	44.356	
6,200.0	6,180.8	6,178.8	6,177.8	5.8	127.4	98.96	-866.0	-5,700.9	5,812.8	5,679.5	133.22	43.634	
6,300.0	6,280.3	6,278.2	6,277.3	5.9	129.5	99.06	-866.0	-5,700.9	5,814.4	5,679.0	135.42	42.936	
6,400.0	6,379.7	6,376.4	6,375.4	6.0	131.6	99.17	-865.0	-5,700.9	5,816.0	5,678.4	137.60	42.267	
6,500.0	6,479.2	6,474.3	6,473.3	6.1	133.7	99.26	-865.5	-5,700.9	5,817.7	5,677.9	139.77	41.622	
6,600.0	6,578.6	6,576.7	6,575.6	6.2	135.9	99.36	-866.0	-5,700.9	5,819.4	5,677.4	142.02	40.975	
6,700.0	6,678.1	6,676.1	6,675.1	6.2	137.9	99.46	-866.0	-5,700.9	5,821.2	5,677.0	144.15	40.383	
6,800.0	6,777.5	6,775.6	6,774.5	6.3	139.9	99.56	-866.0	-5,700.9	5,822.9	5,676.6	146.28	39.807	
6,900.0	6,877.0	6,873.9	6,872.8	6.4	141.9	99.67	-865.0	-5,700.9	5,824.6	5,676.2	148.38	39.254	
7,000.0	6,976.4	6,971.9	6,970.9	6.5	143.9	99.77	-865.5	-5,700.9	5,826.4	5,675.9	150.48	38.718	
7,100.0	7,075.9	7,074.0	7,072.9	6.6	146.0	99.87	-866.0	-5,700.9	5,828.2	5,675.6	152.62	38.187	
7,200.0	7,175.3	7,173.4	7,172.3	6.7	147.9	99.97	-866.0	-5,700.9	5,830.0	5,675.4	154.59	37.713	
7,300.0	7,274.8	7,272.9	7,271.8	6.8	149.7	100.07	-866.0	-5,700.9	5,831.9	5,675.3	156.56	37.250	
7,400.0	7,374.3	7,371.6	7,370.5	6.9	151.6	100.18	-865.3	-5,700.9	5,833.7	5,675.1	158.51	36.802	
7,500.0	7,473.7	7,470.1	7,469.0	7.1	153.4	100.27	-865.6	-5,700.9	5,835.5	5,675.1	160.47	36.366	
7,580.8	7,554.1	7,552.2	7,551.1	7.1	155.0	100.35	-866.0	-5,700.9	5,837.1	5,675.0	162.08	36.015	
7,600.0	7,573.1	7,571.3	7,570.1	7.1	155.4	82.09	-866.0	-5,700.9	5,837.1	5,674.6	162.51	35.918	
7,625.0	7,597.9	7,596.0	7,594.9	7.1	156.0	66.45	-866.0	-5,700.9	5,836.1	5,673.0	163.09	35.785	
7,650.0	7,622.5	7,620.6	7,619.5	7.1	156.6	57.14	-866.0	-5,700.9	5,833.9	5,670.3	163.66	35.647	
7,675.0	7,646.9	7,645.0	7,643.9	7.1	157.1	51.37	-866.0	-5,700.9	5,830.6	5,666.4	164.23	35.503	
7,700.0	7,670.9	7,669.1	7,667.9	7.1	157.7	47.62	-866.0	-5,700.9	5,826.1	5,661.3	164.79	35.354	
7,725.0	7,694.7	7,692.8	7,691.7	7.2	158.2	45.11	-866.0	-5,700.9	5,820.5	5,655.2	165.35	35.200	
7,750.0	7,718.0	7,716.1	7,715.0	7.2	158.7	43.42	-866.0	-5,700.9	5,813.8	5,647.9	165.91	35.042	
7,775.0	7,740.8	7,738.9	7,737.8	7.2	159.3	42.32	-866.0	-5,700.9	5,806.0	5,639.6	166.45	34.881	
7,800.0	7,763.0	7,761.2	7,760.0	7.2	159.8	41.65	-866.0	-5,700.9	5,797.1	5,630.1	166.99	34.716	
7,825.0	7,784.7	7,782.8	7,781.7	7.2	160.3	41.33	-866.0	-5,700.9	5,787.2	5,619.7	167.51	34.547	
7,850.0	7,805.7	7,803.7	7,802.6	7.3	160.8	41.31	-865.5	-5,700.9	5,776.2	5,608.2	168.03	34.377	
7,875.0	7,825.9	7,823.9	7,822.7	7.3	161.2	41.54	-865.5	-5,700.9	5,764.3	5,595.8	168.52	34.205	
7,900.0	7,845.4	7,843.2	7,842.1	7.3	161.7	42.00	-865.5	-5,700.9	5,751.4	5,582.4	169.00	34.031	
7,925.0	7,864.0	7,861.8	7,860.7	7.4	162.1	42.70	-865.5	-5,700.9	5,737.6	5,568.1	169.47	33.857	
7,950.0	7,881.7	7,879.5	7,878.3	7.4	162.5	43.62	-865.5	-5,700.9	5,723.0	5,553.0	169.92	33.681	
7,975.0	7,898.5	7,896.2	7,895.1	7.5	162.9	44.77	-865.6	-5,700.9	5,707.5	5,537.1	170.34	33.505	
8,000.0	7,914.4	7,912.0	7,910.8	7.5	163.2	46.15	-865.6	-5,700.9	5,691.2	5,520.4	170.75	33.330	
8,025.0	7,929.2	7,926.7	7,925.6	7.6	163.6	47.78	-865.6	-5,700.9	5,674.2	5,503.0	171.14	33.155	
8,050.0	7,942.9	7,940.4	7,939.3	7.6	163.9	49.68	-865.7	-5,700.9	5,656.4	5,484.9	171.50	32.981	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 208-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,075.0	7,955.5	7,953.0	7,951.9	7.7	164.2	51.85	-865.7	-5,700.9	5,638.1	5,466.2	171.84	32.809	
8,100.0	7,967.0	7,964.5	7,963.4	7.7	164.4	54.34	-865.7	-5,700.9	5,619.1	5,447.0	172.16	32.639	
8,125.0	7,977.3	7,974.8	7,973.7	7.8	164.7	57.15	-865.8	-5,700.9	5,599.7	5,427.2	172.45	32.471	
8,150.0	7,986.4	7,984.0	7,982.8	7.8	164.9	60.30	-865.8	-5,700.9	5,579.7	5,407.0	172.71	32.307	
8,175.0	7,994.3	7,991.9	7,990.8	7.9	165.1	63.82	-865.8	-5,700.9	5,559.3	5,386.4	172.95	32.145	
8,200.0	8,001.0	7,998.6	7,997.4	8.0	165.2	67.70	-865.9	-5,700.9	5,538.6	5,365.4	173.15	31.987	
8,225.0	8,006.3	8,004.0	8,002.9	8.1	165.3	71.95	-865.9	-5,700.9	5,517.5	5,344.2	173.33	31.833	
8,250.0	8,010.4	8,008.1	8,007.0	8.2	165.4	76.53	-865.9	-5,700.9	5,496.2	5,322.7	173.47	31.683	
8,275.0	8,013.3	8,011.0	8,009.9	8.3	165.5	81.41	-865.9	-5,700.9	5,474.7	5,301.1	173.59	31.538	
8,300.0	8,014.8	8,012.6	8,011.4	8.4	165.5	86.51	-865.9	-5,700.9	5,453.0	5,279.3	173.67	31.399	
8,320.6	8,015.1	8,012.9	8,011.7	8.5	165.5	90.82	-865.9	-5,700.9	5,435.1	5,261.4	173.72	31.287	
8,400.0	8,014.4	8,012.4	8,011.2	9.0	165.5	90.87	-865.9	-5,700.9	5,365.6	5,191.8	173.86	30.862	
8,500.0	8,013.6	8,011.7	8,010.6	9.6	165.5	90.94	-865.9	-5,700.9	5,277.1	5,103.0	174.07	30.316	
8,600.0	8,012.7	8,011.1	8,009.9	10.4	165.5	91.02	-865.9	-5,700.9	5,187.3	5,013.0	174.30	29.761	
8,700.0	8,011.9	8,010.4	8,009.3	11.2	165.5	91.10	-865.9	-5,700.9	5,096.4	4,921.8	174.54	29.199	
8,800.0	8,011.1	8,009.7	8,008.6	12.0	165.5	91.20	-865.9	-5,700.9	5,004.4	4,829.6	174.79	28.630	
8,900.0	8,010.2	8,009.0	8,007.8	12.8	165.5	91.30	-865.9	-5,700.9	4,911.3	4,736.3	175.05	28.056	
9,000.0	8,009.4	8,008.2	8,007.1	13.7	165.4	91.43	-865.9	-5,700.9	4,817.3	4,642.0	175.31	27.478	
9,100.0	8,008.5	8,007.5	8,006.4	14.6	165.4	91.58	-865.9	-5,700.9	4,722.4	4,546.8	175.57	26.897	
9,200.0	8,007.7	8,006.7	8,005.6	15.6	165.4	91.75	-865.9	-5,700.9	4,626.6	4,450.8	175.82	26.314	
9,300.0	8,006.8	8,006.0	8,004.8	16.5	165.4	91.97	-865.9	-5,700.9	4,530.0	4,353.9	176.06	25.730	
9,400.0	8,006.0	8,005.2	8,004.0	17.5	165.4	92.25	-865.9	-5,700.9	4,432.7	4,256.4	176.28	25.145	
9,500.0	8,005.1	8,004.4	8,003.3	18.4	165.4	92.61	-865.9	-5,700.9	4,334.7	4,158.2	176.49	24.561	
9,600.0	8,004.3	8,003.6	8,002.5	19.4	165.3	93.13	-865.9	-5,700.9	4,236.2	4,059.5	176.67	23.978	
9,700.0	8,003.5	8,002.8	8,001.6	20.4	165.3	93.91	-865.9	-5,700.9	4,137.2	3,960.4	176.83	23.396	
9,800.0	8,002.7	8,002.0	8,000.8	21.4	165.3	95.24	-865.9	-5,700.9	4,037.8	3,860.8	176.96	22.817	
9,815.2	8,002.5	8,001.8	8,000.7	21.5	165.3	95.53	-865.9	-5,700.9	4,022.6	3,845.6	176.98	22.729	
9,900.0	8,001.8	8,001.1	8,000.0	22.3	165.3	95.42	-865.9	-5,700.9	3,938.2	3,761.1	177.08	22.240	
10,000.0	8,001.0	8,000.3	7,999.2	23.3	165.3	95.29	-865.9	-5,700.9	3,838.6	3,661.4	177.20	21.662	
10,100.0	8,000.2	7,999.5	7,998.4	24.3	165.2	95.15	-865.9	-5,700.9	3,739.0	3,561.7	177.33	21.085	
10,200.0	7,999.4	7,998.7	7,997.6	25.3	165.2	95.02	-865.9	-5,700.9	3,639.5	3,462.0	177.46	20.508	
10,300.0	7,998.6	7,997.9	7,996.7	26.4	165.2	94.89	-865.9	-5,700.9	3,540.0	3,362.3	177.61	19.931	
10,400.0	7,997.8	7,997.1	7,995.9	27.4	165.2	94.75	-865.8	-5,700.9	3,440.5	3,262.7	177.76	19.354	
10,500.0	7,996.9	7,996.2	7,995.1	28.4	165.2	94.62	-865.8	-5,700.9	3,341.0	3,163.1	177.93	18.778	
10,600.0	7,996.1	7,995.4	7,994.3	29.5	165.1	94.49	-865.8	-5,700.9	3,241.6	3,063.5	178.10	18.201	
10,700.0	7,995.3	7,994.6	7,993.5	30.5	165.1	94.36	-865.8	-5,700.9	3,142.2	2,963.9	178.28	17.625	
10,800.0	7,994.5	7,993.8	7,992.6	31.6	165.1	94.22	-865.8	-5,700.9	3,042.8	2,864.3	178.48	17.048	
10,900.0	7,993.7	7,993.0	7,991.8	32.6	165.1	94.09	-865.8	-5,700.9	2,943.5	2,764.8	178.69	16.473	
11,000.0	7,992.8	7,992.1	7,991.0	33.7	165.1	93.96	-865.8	-5,700.9	2,844.3	2,665.3	178.92	15.897	
11,100.0	7,992.0	7,991.3	7,990.2	34.7	165.1	93.82	-865.8	-5,700.9	2,745.1	2,565.9	179.16	15.322	
11,200.0	7,991.2	7,990.5	7,989.4	35.8	165.0	93.69	-865.8	-5,700.9	2,645.9	2,466.5	179.42	14.747	
11,300.0	7,990.4	7,989.7	7,988.6	36.9	165.0	93.56	-865.8	-5,700.9	2,546.8	2,367.1	179.70	14.173	
11,400.0	7,989.6	7,988.9	7,987.7	37.9	165.0	93.42	-865.8	-5,700.9	2,447.8	2,267.8	180.00	13.599	
11,500.0	7,988.8	7,988.0	7,986.9	39.0	165.0	93.29	-865.8	-5,700.9	2,348.9	2,168.6	180.32	13.026	
11,600.0	7,987.9	7,987.2	7,986.1	40.1	165.0	93.16	-865.8	-5,700.9	2,250.1	2,069.4	180.68	12.454	
11,700.0	7,987.1	7,986.4	7,985.3	41.2	164.9	93.02	-865.8	-5,700.9	2,151.3	1,970.3	181.06	11.882	
11,800.0	7,986.3	7,985.6	7,984.5	42.3	164.9	92.89	-865.8	-5,700.9	2,052.8	1,871.3	181.49	11.311	
11,900.0	7,985.5	7,984.8	7,983.6	43.3	164.9	92.75	-865.8	-5,700.9	1,954.3	1,772.3	181.95	10.741	
12,000.0	7,984.7	7,984.0	7,982.8	44.4	164.9	92.62	-865.8	-5,700.9	1,856.0	1,673.5	182.47	10.172	
12,100.0	7,983.9	7,983.1	7,982.0	45.5	164.9	92.49	-865.8	-5,700.9	1,757.9	1,574.9	183.04	9.604	
12,200.0	7,983.0	7,982.3	7,981.2	46.6	164.8	92.35	-865.8	-5,700.9	1,660.0	1,476.4	183.68	9.038	
12,300.0	7,982.2	7,981.5	7,980.4	47.7	164.8	92.22	-865.8	-5,700.9	1,562.4	1,378.0	184.40	8.473	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		MOODY ST COM PROJECT - MOODY 17 FEE COM #1 - OWB - AWP											Offset Site Error: 3.0 usft	
Survey Program: 208-INC-ONLY													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,400.0	7,981.4	7,980.7	7,979.5	48.8	164.8	92.09	-865.8	-5,700.9	1,465.2	1,279.9	185.22	7.910		
12,500.0	7,980.6	7,979.9	7,978.7	49.9	164.8	91.95	-865.8	-5,700.9	1,368.3	1,182.1	186.16	7.350		
12,600.0	7,979.8	7,979.0	7,977.9	51.0	164.8	91.82	-865.8	-5,700.9	1,271.9	1,084.6	187.24	6.793		
12,700.0	7,979.0	7,978.2	7,977.1	52.1	164.8	91.68	-865.8	-5,700.9	1,176.1	987.6	188.49	6.239		
12,800.0	7,978.1	7,977.4	7,976.3	53.1	164.7	91.55	-865.8	-5,700.9	1,081.0	891.1	189.97	5.691		
12,900.0	7,977.3	7,976.6	7,975.4	54.2	164.7	91.42	-865.8	-5,700.9	987.0	795.3	191.73	5.148		
13,000.0	7,976.5	7,975.8	7,974.6	55.3	164.7	91.28	-865.8	-5,700.9	894.2	700.4	193.84	4.613		
13,100.0	7,975.7	7,974.9	7,973.8	56.4	164.7	91.15	-865.8	-5,700.9	803.2	606.8	196.40	4.089		
13,171.4	7,975.1	7,974.4	7,973.2	57.2	164.7	91.05	-865.8	-5,700.9	739.6	541.0	198.58	3.725		
13,200.0	7,974.9	7,974.1	7,973.0	57.5	164.7	91.04	-865.8	-5,700.9	714.5	514.9	199.54	3.581		
13,245.7	7,974.5	7,973.7	7,972.6	58.0	164.7	91.01	-865.8	-5,700.9	674.6	473.4	201.16	3.353		
13,300.0	7,974.0	7,973.3	7,972.2	58.6	164.6	90.94	-865.8	-5,700.9	628.0	424.7	203.27	3.089		
13,400.0	7,973.2	7,972.5	7,971.3	59.7	164.6	90.80	-865.8	-5,700.9	546.0	338.1	207.88	2.626		
13,500.0	7,972.4	7,971.6	7,970.5	60.8	164.6	90.65	-865.8	-5,700.9	470.9	257.5	213.48	2.206		
13,600.0	7,971.6	7,970.8	7,969.7	61.9	164.6	90.51	-865.8	-5,700.9	406.8	187.0	219.80	1.851 Advise and Monitor		
13,700.0	7,970.8	7,970.0	7,968.8	63.0	164.6	90.37	-865.8	-5,700.9	359.4	133.7	225.68	1.593 Advise and Monitor		
13,800.0	7,969.9	7,969.1	7,968.0	64.1	164.5	90.23	-865.8	-5,700.9	335.9	107.3	228.63	1.469 Shut in Produces		
13,831.6	7,969.7	7,968.9	7,967.7	64.5	164.5	90.18	-865.8	-5,700.9	334.5	105.9	228.54	1.463 Shut in Produces, CC, ES, SF		
13,900.0	7,969.1	7,968.3	7,967.2	65.2	164.5	90.08	-865.8	-5,700.9	341.4	114.9	226.52	1.507 Advise and Monitor		
14,000.0	7,968.3	7,967.5	7,966.3	66.3	164.5	89.94	-865.7	-5,700.9	374.5	154.2	220.26	1.700 Advise and Monitor		
14,100.0	7,967.5	7,966.6	7,965.5	67.4	164.5	89.80	-865.7	-5,700.9	428.9	216.1	212.72	2.016		
14,200.0	7,966.7	7,965.8	7,964.7	68.5	164.5	89.66	-865.7	-5,700.9	497.6	291.8	205.83	2.418		
14,300.0	7,965.8	7,965.0	7,963.9	69.6	164.5	89.52	-865.7	-5,700.9	575.6	375.4	200.21	2.875		
14,400.0	7,965.0	7,964.2	7,963.0	70.7	164.4	89.37	-865.7	-5,700.9	659.5	463.7	195.80	3.368		
14,500.0	7,964.2	7,963.3	7,962.2	71.8	164.4	89.23	-865.7	-5,700.9	747.4	555.0	192.38	3.885		
14,600.0	7,963.4	7,962.5	7,961.4	72.9	164.4	89.09	-865.7	-5,700.9	838.0	648.3	189.72	4.417		
14,700.0	7,962.6	7,961.7	7,960.5	74.0	164.4	88.95	-865.7	-5,700.9	930.6	742.9	187.66	4.959		
14,800.0	7,961.7	7,960.8	7,959.7	75.1	164.4	88.80	-865.7	-5,700.9	1,024.5	838.5	186.04	5.507		
14,900.0	7,960.9	7,960.0	7,958.9	76.2	164.3	88.66	-865.7	-5,700.9	1,119.5	934.8	184.77	6.059		
15,000.0	7,960.1	7,959.2	7,958.0	77.3	164.3	88.52	-865.7	-5,700.9	1,215.3	1,031.6	183.77	6.613		
15,100.0	7,959.3	7,958.3	7,957.2	78.4	164.3	88.38	-865.7	-5,700.9	1,311.8	1,128.8	182.98	7.169		
15,200.0	7,958.5	7,957.5	7,956.4	79.5	164.3	88.24	-865.7	-5,700.9	1,408.7	1,226.3	182.35	7.725		
15,300.0	7,957.6	7,956.7	7,955.6	80.6	164.3	88.09	-865.7	-5,700.9	1,506.0	1,324.1	181.86	8.281		
15,400.0	7,956.8	7,955.9	7,954.7	81.7	164.2	87.95	-865.7	-5,700.9	1,603.7	1,422.2	181.48	8.837		
15,500.0	7,956.0	7,955.0	7,953.9	82.8	164.2	87.81	-865.7	-5,700.9	1,701.6	1,520.4	181.18	9.392		
15,600.0	7,955.2	7,954.2	7,953.1	84.0	164.2	87.67	-865.7	-5,700.9	1,799.7	1,618.8	180.95	9.946		
15,700.0	7,954.4	7,953.4	7,952.2	85.1	164.2	87.53	-865.7	-5,700.9	1,898.1	1,717.3	180.77	10.500		
15,800.0	7,953.5	7,952.5	7,951.4	86.2	164.2	87.38	-865.7	-5,700.9	1,996.6	1,815.9	180.65	11.052		
15,900.0	7,952.7	7,951.7	7,950.6	87.3	164.1	87.24	-865.7	-5,700.9	2,095.2	1,914.7	180.56	11.604		
16,000.0	7,951.9	7,950.9	7,949.7	88.4	164.1	87.10	-865.7	-5,700.9	2,194.0	2,013.5	180.51	12.155		
16,100.0	7,951.1	7,950.0	7,948.9	89.5	164.1	86.96	-865.7	-5,700.9	2,292.9	2,112.4	180.48	12.705		
16,200.0	7,950.3	7,949.2	7,948.1	90.6	164.1	86.82	-865.7	-5,700.9	2,391.9	2,211.4	180.47	13.253		
16,300.0	7,949.4	7,948.4	7,947.3	91.7	164.1	86.68	-865.7	-5,700.9	2,490.9	2,310.4	180.48	13.801		
16,400.0	7,948.6	7,947.6	7,946.4	92.8	164.1	86.53	-865.7	-5,700.9	2,590.0	2,409.5	180.51	14.348		
16,500.0	7,947.8	7,946.7	7,945.6	93.9	164.0	86.39	-865.7	-5,700.9	2,689.2	2,508.7	180.56	14.894		
16,600.0	7,947.0	7,945.9	7,944.8	95.0	164.0	86.25	-865.7	-5,700.9	2,788.5	2,607.9	180.61	15.439		
16,700.0	7,946.2	7,945.1	7,943.9	96.1	164.0	86.11	-865.7	-5,700.9	2,887.8	2,707.1	180.67	15.983		
16,800.0	7,945.3	7,944.2	7,943.1	97.2	164.0	85.97	-865.7	-5,700.9	2,987.1	2,806.4	180.75	16.527		
16,900.0	7,944.5	7,943.4	7,942.3	98.4	164.0	85.83	-865.7	-5,700.9	3,086.5	2,905.7	180.82	17.069		
17,000.0	7,943.7	7,942.6	7,941.5	99.5	163.9	85.69	-865.7	-5,700.9	3,185.9	3,005.0	180.91	17.611		
17,100.0	7,942.9	7,941.8	7,940.6	100.6	163.9	85.55	-865.7	-5,700.9	3,285.4	3,104.4	181.00	18.151		
17,200.0	7,942.1	7,940.9	7,939.8	101.7	163.9	85.40	-865.7	-5,700.9	3,384.9	3,203.8	181.10	18.691		

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 17 FEE COM #1 - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 208-INC-ONLY													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis			Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,300.0	7,941.2	7,940.1	7,939.0	102.8	163.9	85.26	-865.7	-5,700.9	3,484.4	3,303.2	181.20	19.230		
17,400.0	7,940.4	7,939.3	7,938.1	103.9	163.9	85.12	-865.7	-5,700.9	3,584.0	3,402.7	181.30	19.768		
17,500.0	7,939.6	7,938.4	7,937.3	105.0	163.8	84.98	-865.7	-5,700.9	3,683.5	3,502.1	181.41	20.305		
17,600.0	7,938.8	7,937.6	7,936.5	106.1	163.8	84.84	-865.7	-5,700.9	3,783.1	3,601.6	181.52	20.842		
17,700.0	7,938.0	7,936.8	7,935.7	107.2	163.8	84.70	-865.7	-5,700.9	3,882.7	3,701.1	181.63	21.377		
17,800.0	7,937.1	7,936.0	7,934.8	108.3	163.8	84.56	-865.7	-5,700.9	3,982.4	3,800.6	181.74	21.912		
17,900.0	7,936.3	7,935.1	7,934.0	109.5	163.8	84.42	-865.7	-5,700.9	4,082.0	3,900.2	181.86	22.446		
17,996.2	7,935.5	7,934.3	7,933.2	110.5	163.7	84.28	-865.7	-5,700.9	4,177.9	3,996.0	181.97	22.959		

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 18 STATE COM #1H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7347-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-70.68	3,538.3	-10,092.3	10,694.6				
100.0	100.0	58.1	58.1	3.0	3.0	-70.68	3,538.4	-10,092.5	10,695.0	10,689.0	6.00	1,781.732	
200.0	200.0	105.7	105.7	3.0	3.0	-70.68	3,538.7	-10,092.9	10,696.0	10,690.0	6.01	1,779.610	
300.0	300.0	246.9	246.9	3.0	3.2	-70.67	3,540.1	-10,093.9	10,697.1	10,691.0	6.09	1,755.883	
400.0	400.0	608.2	608.2	3.0	3.9	-70.68	3,539.1	-10,092.1	10,696.1	10,689.4	6.62	1,615.451	
500.0	500.0	743.6	743.6	3.1	4.3	-70.68	3,537.4	-10,090.1	10,694.3	10,687.4	6.92	1,544.391	
600.0	600.0	872.3	872.2	3.1	4.7	-70.68	3,536.0	-10,087.7	10,692.1	10,684.9	7.25	1,473.933	
700.0	700.0	971.4	971.3	3.1	5.0	-70.68	3,534.9	-10,085.7	10,689.9	10,682.3	7.54	1,418.099	
800.0	800.0	1,059.6	1,059.5	3.2	5.2	-70.69	3,534.0	-10,083.9	10,687.7	10,679.9	7.80	1,370.372	
900.0	900.0	1,143.5	1,143.3	3.2	5.5	-70.69	3,533.1	-10,082.4	10,685.6	10,677.6	8.06	1,326.567	
1,000.0	1,000.0	1,229.1	1,228.9	3.2	5.7	-70.69	3,532.2	-10,081.0	10,683.7	10,675.4	8.32	1,283.870	
1,100.0	1,100.0	1,318.9	1,318.7	3.3	6.0	-70.69	3,531.1	-10,079.7	10,681.9	10,673.3	8.60	1,241.778	
1,200.0	1,200.0	1,400.0	1,399.8	3.4	6.3	-70.70	3,530.0	-10,078.6	10,680.2	10,671.4	8.86	1,205.482	
1,300.0	1,300.0	1,472.8	1,472.6	3.4	6.5	-70.70	3,529.0	-10,077.8	10,678.8	10,669.7	9.10	1,173.886	
1,400.0	1,400.0	1,551.2	1,551.0	3.5	6.8	-70.70	3,528.2	-10,077.1	10,677.6	10,668.2	9.36	1,141.331	
1,500.0	1,500.0	1,845.1	1,844.8	3.5	7.7	-70.70	3,526.5	-10,071.1	10,675.3	10,664.9	10.34	1,032.505	
1,600.0	1,600.0	2,110.2	2,109.6	3.6	8.5	-70.68	3,527.9	-10,060.2	10,671.5	10,660.2	11.30	944.238	
1,700.0	1,700.0	2,172.8	2,172.2	3.7	8.7	-70.67	3,528.3	-10,057.2	10,667.3	10,655.7	11.55	923.214	
1,800.0	1,800.0	2,236.6	2,235.9	3.8	8.9	-70.66	3,528.7	-10,054.4	10,663.3	10,651.5	11.81	902.678	
1,900.0	1,900.0	2,300.0	2,299.3	3.9	9.2	-70.65	3,529.1	-10,051.9	10,659.7	10,647.6	12.07	882.996	
2,000.0	2,000.0	2,370.4	2,369.6	3.9	9.4	-70.65	3,529.4	-10,049.3	10,656.4	10,644.1	12.36	862.489	
2,100.0	2,100.0	2,459.7	2,458.9	4.0	9.7	-70.64	3,529.5	-10,046.3	10,653.3	10,640.6	12.71	838.452	
2,200.0	2,200.0	2,540.9	2,540.1	4.1	10.0	-70.64	3,529.7	-10,043.7	10,650.3	10,637.3	13.03	817.392	
2,300.0	2,300.0	2,600.0	2,599.1	4.2	10.2	-70.63	3,529.9	-10,041.9	10,647.6	10,634.3	13.28	801.931	
2,400.0	2,400.0	2,671.2	2,670.3	4.3	10.4	-70.63	3,530.2	-10,039.9	10,645.1	10,631.6	13.57	784.478	
2,500.0	2,500.0	2,742.6	2,741.7	4.4	10.6	-70.62	3,530.6	-10,038.2	10,643.1	10,629.2	13.86	767.644	
2,598.7	2,598.7	2,833.5	2,832.6	4.4	10.9	123.41	3,531.2	-10,036.2	10,642.1	10,627.9	14.22	748.526	
2,600.0	2,600.0	2,835.2	2,834.2	4.4	10.9	123.41	3,531.2	-10,036.1	10,642.1	10,627.9	14.22	748.204	
2,700.0	2,699.8	2,958.3	2,957.3	4.4	11.3	123.43	3,532.1	-10,033.2	10,643.0	10,628.3	14.68	724.988	
2,800.0	2,799.5	3,045.1	3,044.1	4.4	11.6	123.43	3,532.4	-10,031.1	10,645.7	10,630.7	15.01	709.246	
2,900.0	2,898.9	3,100.0	3,099.0	4.3	11.8	123.45	3,532.5	-10,030.0	10,649.6	10,634.4	15.23	699.300	
3,000.0	2,998.4	3,170.3	3,169.3	4.3	12.1	123.49	3,532.6	-10,028.8	10,653.9	10,638.4	15.50	687.165	
3,100.0	3,097.8	3,229.3	3,228.2	4.3	12.3	123.52	3,532.7	-10,028.1	10,658.6	10,642.8	15.74	677.067	
3,200.0	3,197.3	3,300.0	3,298.9	4.3	12.5	123.55	3,532.8	-10,027.5	10,663.6	10,647.6	16.02	665.441	
3,300.0	3,296.7	3,408.7	3,407.7	4.3	12.9	123.61	3,533.4	-10,026.6	10,668.8	10,652.4	16.44	648.764	
3,400.0	3,396.2	3,481.8	3,480.8	4.3	13.1	123.65	3,533.8	-10,026.0	10,674.1	10,657.3	16.74	637.613	
3,500.0	3,495.6	3,576.6	3,575.5	4.3	13.4	123.69	3,534.1	-10,025.4	10,679.4	10,662.3	17.12	623.963	
3,600.0	3,595.1	3,690.1	3,689.1	4.3	13.8	123.75	3,534.6	-10,024.7	10,684.7	10,667.2	17.56	608.505	
3,700.0	3,694.5	3,782.6	3,781.5	4.3	14.1	123.80	3,534.8	-10,024.0	10,690.0	10,672.1	17.93	596.268	
3,800.0	3,794.0	3,916.0	3,914.9	4.3	14.6	123.86	3,534.7	-10,023.1	10,695.2	10,676.7	18.44	580.093	
3,900.0	3,893.4	4,000.0	3,998.9	4.3	14.9	123.90	3,534.4	-10,022.6	10,700.3	10,681.5	18.77	570.051	
4,000.0	3,992.9	4,081.5	4,080.4	4.3	15.2	123.93	3,534.0	-10,022.2	10,705.5	10,686.4	19.09	560.662	
4,100.0	4,092.3	4,166.4	4,165.3	4.3	15.4	123.97	3,533.8	-10,021.9	10,710.9	10,691.5	19.43	551.198	
4,200.0	4,191.8	11,237.7	7,910.2	4.4	64.8	106.55	-65.9	-10,001.0	10,695.9	10,629.8	66.09	161.850	
4,300.0	4,291.2	11,247.0	7,910.1	4.4	64.9	106.50	-75.2	-10,001.1	10,664.5	10,598.1	66.44	160.522	
4,400.0	4,390.7	11,267.3	7,910.1	4.4	65.2	106.39	-95.4	-10,001.3	10,634.0	10,567.0	66.95	158.846	
4,500.0	4,490.1	11,289.0	7,910.0	4.5	65.6	106.27	-117.2	-10,001.5	10,604.2	10,536.8	67.47	157.159	
4,600.0	4,589.6	11,311.3	7,910.0	4.6	65.9	106.14	-139.5	-10,001.6	10,575.4	10,507.3	68.01	155.494	
4,700.0	4,689.0	11,334.2	7,910.0	4.6	66.2	106.01	-162.4	-10,001.7	10,547.3	10,478.8	68.55	153.853	
4,800.0	4,788.5	11,357.7	7,910.1	4.7	66.6	105.88	-185.8	-10,001.8	10,520.1	10,451.0	69.11	152.233	
4,900.0	4,887.9	11,362.6	7,910.1	4.7	66.7	105.85	-190.8	-10,001.8	10,493.8	10,424.4	69.39	151.239	
5,000.0	4,987.4	11,374.3	7,910.0	4.8	66.8	105.79	-202.4	-10,001.9	10,468.4	10,398.6	69.76	150.059	

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

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Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 18 STATE COM #1H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7347-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,086.9	11,385.6	7,910.0	4.9	67.0	105.72	-213.8	-10,001.9	10,443.8	10,373.7	70.13	148.918	
5,200.0	5,186.3	11,396.7	7,910.0	5.0	67.2	105.66	-224.9	-10,002.0	10,420.2	10,349.7	70.49	147.816	
5,300.0	5,285.8	11,407.5	7,909.9	5.0	67.3	105.60	-235.7	-10,002.0	10,397.4	10,326.5	70.85	146.751	
5,400.0	5,385.2	11,418.1	7,909.9	5.1	67.5	105.54	-246.2	-10,002.1	10,375.5	10,304.3	71.20	145.722	
5,500.0	5,484.7	11,428.4	7,909.8	5.2	67.7	105.48	-256.5	-10,002.1	10,354.6	10,283.0	71.54	144.729	
5,600.0	5,584.1	11,438.4	7,909.7	5.3	67.8	105.43	-266.6	-10,002.2	10,334.5	10,262.7	71.88	143.771	
5,700.0	5,683.6	11,437.0	7,909.7	5.4	67.8	105.43	-265.2	-10,002.2	10,315.4	10,243.4	72.05	143.178	
5,800.0	5,783.0	11,437.0	7,909.7	5.4	67.8	105.43	-265.2	-10,002.2	10,297.3	10,225.0	72.23	142.567	
5,900.0	5,882.5	11,455.3	7,909.5	5.5	68.1	105.33	-283.5	-10,002.3	10,280.0	10,207.3	72.68	141.441	
6,000.0	5,981.9	11,461.0	7,909.5	5.6	68.2	105.30	-289.2	-10,002.3	10,263.7	10,190.8	72.94	140.712	
6,100.0	6,081.4	11,466.7	7,909.4	5.7	68.2	105.27	-294.9	-10,002.3	10,248.4	10,175.2	73.20	140.008	
6,200.0	6,180.8	11,472.3	7,909.4	5.8	68.3	105.23	-300.5	-10,002.4	10,233.9	10,160.5	73.45	139.330	
6,300.0	6,280.3	11,477.9	7,909.3	5.9	68.4	105.20	-306.0	-10,002.4	10,220.5	10,146.8	73.70	138.676	
6,400.0	6,379.7	11,483.4	7,909.2	6.0	68.5	105.17	-311.5	-10,002.5	10,208.0	10,134.0	73.94	138.048	
6,500.0	6,479.2	11,488.8	7,909.2	6.1	68.6	105.14	-317.0	-10,002.5	10,196.4	10,122.3	74.19	137.445	
6,600.0	6,578.6	11,494.3	7,909.1	6.2	68.7	105.11	-322.4	-10,002.6	10,185.9	10,111.4	74.42	136.866	
6,700.0	6,678.1	11,499.6	7,909.0	6.2	68.7	105.08	-327.8	-10,002.6	10,176.3	10,101.6	74.65	136.311	
6,800.0	6,777.5	11,504.9	7,909.0	6.3	68.8	105.05	-333.1	-10,002.7	10,167.6	10,092.7	74.88	135.779	
6,900.0	6,877.0	11,510.2	7,908.9	6.4	68.9	105.02	-338.4	-10,002.7	10,160.0	10,084.9	75.11	135.271	
7,000.0	6,976.4	11,533.0	7,908.5	6.5	69.3	104.89	-361.2	-10,003.0	10,153.3	10,077.7	75.60	134.311	
7,100.0	7,075.9	11,533.0	7,908.5	6.6	69.3	104.89	-361.2	-10,003.0	10,147.6	10,071.8	75.73	133.991	
7,200.0	7,175.3	11,533.0	7,908.5	6.7	69.3	104.89	-361.2	-10,003.0	10,142.8	10,067.0	75.87	133.690	
7,300.0	7,274.8	11,533.0	7,908.5	6.8	69.3	104.89	-361.2	-10,003.0	10,139.1	10,063.1	76.00	133.408	
7,400.0	7,374.3	11,627.0	7,907.9	6.9	70.7	104.36	-455.1	-10,003.7	10,136.2	10,058.7	77.56	130.687	
7,500.0	7,473.7	11,627.0	7,907.9	7.1	70.7	104.36	-455.1	-10,003.7	10,134.4	10,056.7	77.69	130.450	
7,580.8	7,554.1	11,644.6	7,907.9	7.1	71.0	104.27	-472.7	-10,003.7	10,133.5	10,055.5	78.01	129.894	
7,600.0	7,573.1	11,646.0	7,907.9	7.1	71.0	86.00	-474.1	-10,003.7	10,133.1	10,055.1	78.04	129.843	
7,625.0	7,597.9	11,648.2	7,907.9	7.1	71.0	70.35	-476.3	-10,003.7	10,131.6	10,053.5	78.08	129.753	
7,650.0	7,622.5	11,650.8	7,907.9	7.1	71.0	61.03	-478.9	-10,003.7	10,129.0	10,050.9	78.14	129.634	
7,675.0	7,646.9	11,653.8	7,907.9	7.1	71.1	55.24	-481.9	-10,003.7	10,125.4	10,047.2	78.20	129.487	
7,700.0	7,670.9	11,657.2	7,907.9	7.1	71.1	51.47	-485.4	-10,003.7	10,120.8	10,042.5	78.27	129.313	
7,725.0	7,694.7	11,661.0	7,907.9	7.2	71.2	48.93	-489.2	-10,003.7	10,115.1	10,036.7	78.34	129.113	
7,750.0	7,718.0	11,665.2	7,907.9	7.2	71.3	47.21	-493.3	-10,003.8	10,108.4	10,029.9	78.43	128.887	
7,775.0	7,740.8	11,669.7	7,907.9	7.2	71.3	46.06	-497.9	-10,003.8	10,100.6	10,022.1	78.52	128.635	
7,800.0	7,763.0	11,674.6	7,907.8	7.2	71.4	45.34	-502.8	-10,003.8	10,091.9	10,013.3	78.62	128.358	
7,825.0	7,784.7	11,679.9	7,907.8	7.2	71.5	44.96	-508.0	-10,003.8	10,082.2	10,003.5	78.73	128.057	
7,850.0	7,805.7	11,685.4	7,907.8	7.3	71.6	44.87	-513.6	-10,003.8	10,071.6	9,992.8	78.85	127.732	
7,875.0	7,825.9	11,691.3	7,907.8	7.3	71.7	45.02	-519.4	-10,003.9	10,060.1	9,981.1	78.97	127.385	
7,900.0	7,845.4	11,697.5	7,907.7	7.3	71.8	45.40	-525.6	-10,003.9	10,047.6	9,968.5	79.10	127.016	
7,925.0	7,864.0	11,703.9	7,907.7	7.4	71.9	46.00	-532.0	-10,003.9	10,034.3	9,955.1	79.24	126.627	
7,950.0	7,881.7	11,722.0	7,907.6	7.4	72.1	46.73	-550.1	-10,004.1	10,020.2	9,940.6	79.56	125.941	
7,975.0	7,898.5	11,722.0	7,907.6	7.5	72.1	47.78	-550.1	-10,004.1	10,005.3	9,925.6	79.61	125.683	
8,000.0	7,914.4	11,722.0	7,907.6	7.5	72.1	49.05	-550.1	-10,004.1	9,989.6	9,909.9	79.65	125.413	
8,025.0	7,929.2	11,722.0	7,907.6	7.6	72.1	50.54	-550.1	-10,004.1	9,973.2	9,893.5	79.70	125.131	
8,050.0	7,942.9	11,722.0	7,907.6	7.6	72.1	52.27	-550.1	-10,004.1	9,956.1	9,876.3	79.75	124.838	
8,075.0	7,955.5	11,722.0	7,907.6	7.7	72.1	54.25	-550.1	-10,004.1	9,938.4	9,858.6	79.80	124.536	
8,100.0	7,967.0	11,748.9	7,907.3	7.7	72.6	56.34	-577.1	-10,004.3	9,920.0	9,839.8	80.27	123.583	
8,125.0	7,977.3	11,755.5	7,907.2	7.8	72.7	58.84	-583.6	-10,004.4	9,901.2	9,820.8	80.42	123.113	
8,150.0	7,986.4	11,762.1	7,907.2	7.8	72.8	61.65	-590.2	-10,004.4	9,881.9	9,801.3	80.58	122.636	
8,175.0	7,994.3	11,768.8	7,907.1	7.9	72.9	64.77	-596.9	-10,004.5	9,862.1	9,781.3	80.74	122.152	
8,200.0	8,001.0	11,992.9	7,906.7	8.0	76.3	67.25	-821.1	-10,004.9	9,842.0	9,757.7	84.24	116.835	
8,225.0	8,006.3	12,101.0	7,905.6	8.1	78.0	70.76	-929.1	-10,003.2	9,821.1	9,735.1	85.95	114.267	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 18 STATE COM #1H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7347-MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,250.0	8,010.4	12,101.0	7,905.6	8.2	78.0	75.15	-929.1	-10,003.2	9,799.9	9,713.9	86.00	113.950		
8,275.0	8,013.3	12,125.3	7,905.0	8.3	78.4	79.80	-953.4	-10,002.7	9,778.4	9,692.0	86.43	113.143		
8,300.0	8,014.8	12,134.3	7,904.8	8.4	78.5	84.82	-962.4	-10,002.6	9,756.7	9,670.1	86.61	112.648		
8,320.6	8,015.1	12,141.7	7,904.6	8.5	78.6	89.13	-969.8	-10,002.4	9,738.8	9,652.0	86.77	112.242		
8,400.0	8,014.4	12,169.5	7,903.8	9.0	79.1	89.09	-997.6	-10,001.9	9,669.1	9,581.7	87.35	110.696		
8,500.0	8,013.6	12,202.6	7,902.7	9.6	79.6	89.03	-1,030.7	-10,001.3	9,579.9	9,491.8	88.07	108.777		
8,600.0	8,012.7	12,245.0	7,901.2	10.4	80.2	88.94	-1,073.0	-10,000.6	9,489.2	9,400.2	88.94	106.691		
8,700.0	8,011.9	12,268.5	7,900.4	11.2	80.6	88.86	-1,096.5	-10,000.2	9,397.1	9,307.6	89.53	104.961		
8,800.0	8,011.1	12,297.0	7,899.3	12.0	81.0	88.74	-1,125.0	-9,999.8	9,303.7	9,213.5	90.19	103.155		
8,900.0	8,010.2	12,297.0	7,899.3	12.8	81.0	88.63	-1,125.0	-9,999.8	9,209.3	9,118.8	90.42	101.847		
9,000.0	8,009.4	12,297.0	7,899.3	13.7	81.0	88.49	-1,125.0	-9,999.8	9,113.8	9,023.2	90.65	100.542		
9,100.0	8,008.5	12,297.0	7,899.3	14.6	81.0	88.30	-1,125.0	-9,999.8	9,017.4	8,926.6	90.86	99.245		
9,200.0	8,007.7	12,297.0	7,899.3	15.6	81.0	88.06	-1,125.0	-9,999.8	8,920.3	8,829.2	91.06	97.959		
9,300.0	8,006.8	12,297.0	7,899.3	16.5	81.0	87.71	-1,125.0	-9,999.8	8,822.4	8,731.1	91.25	96.689		
9,400.0	8,006.0	12,297.0	7,899.3	17.5	81.0	87.22	-1,125.0	-9,999.8	8,723.9	8,632.5	91.41	95.436		
9,500.0	8,005.1	12,297.0	7,899.3	18.4	81.0	86.43	-1,125.0	-9,999.8	8,624.9	8,533.3	91.56	94.203		
9,600.0	8,004.3	12,297.0	7,899.3	19.4	81.0	85.03	-1,125.0	-9,999.8	8,525.5	8,433.8	91.68	92.994		
9,700.0	8,003.5	12,297.0	7,899.3	20.4	81.0	81.89	-1,125.0	-9,999.8	8,425.7	8,333.9	91.78	91.808		
9,800.0	8,002.7	12,297.0	7,899.3	21.4	81.0	69.08	-1,125.0	-9,999.8	8,325.8	8,234.0	91.85	90.649		
9,815.2	8,002.5	12,297.0	7,899.3	21.5	81.0	62.92	-1,125.0	-9,999.8	8,310.6	8,218.7	91.86	90.475		
9,900.0	8,001.8	12,297.0	7,899.3	22.3	81.0	62.92	-1,125.0	-9,999.8	8,225.8	8,133.9	91.90	89.506		
10,000.0	8,001.0	12,297.0	7,899.3	23.3	81.0	62.92	-1,125.0	-9,999.8	8,125.8	8,033.9	91.96	88.364		
10,100.0	8,000.2	12,297.0	7,899.3	24.3	81.0	62.92	-1,125.0	-9,999.8	8,025.9	7,933.8	92.02	87.220		
10,200.0	7,999.4	12,297.0	7,899.3	25.3	81.0	62.92	-1,125.0	-9,999.8	7,925.9	7,833.8	92.08	86.075		
10,300.0	7,998.6	12,297.0	7,899.3	26.4	81.0	62.92	-1,125.0	-9,999.8	7,825.9	7,733.7	92.15	84.930		
10,400.0	7,997.8	12,297.0	7,899.3	27.4	81.0	62.92	-1,125.0	-9,999.8	7,725.9	7,633.7	92.21	83.784		
10,500.0	7,996.9	12,297.0	7,899.3	28.4	81.0	62.92	-1,125.0	-9,999.8	7,625.9	7,533.6	92.28	82.637		
10,600.0	7,996.1	12,297.0	7,899.3	29.5	81.0	62.92	-1,125.0	-9,999.8	7,525.9	7,433.6	92.35	81.490		
10,700.0	7,995.3	12,297.0	7,899.3	30.5	81.0	62.92	-1,125.0	-9,999.8	7,426.0	7,333.5	92.43	80.343		
10,800.0	7,994.5	12,297.0	7,899.3	31.6	81.0	62.92	-1,125.0	-9,999.8	7,326.0	7,233.5	92.50	79.196		
10,900.0	7,993.7	12,297.0	7,899.3	32.6	81.0	62.92	-1,125.0	-9,999.8	7,226.0	7,133.4	92.58	78.049		
11,000.0	7,992.8	12,297.0	7,899.3	33.7	81.0	62.92	-1,125.0	-9,999.8	7,126.0	7,033.4	92.66	76.902		
11,100.0	7,992.0	12,297.0	7,899.3	34.7	81.0	62.92	-1,125.0	-9,999.8	7,026.0	6,933.3	92.75	75.755		
11,200.0	7,991.2	12,297.0	7,899.3	35.8	81.0	62.92	-1,125.0	-9,999.8	6,926.1	6,833.2	92.83	74.608		
11,300.0	7,990.4	12,297.0	7,899.3	36.9	81.0	62.92	-1,125.0	-9,999.8	6,826.1	6,733.2	92.92	73.462		
11,400.0	7,989.6	12,297.0	7,899.3	37.9	81.0	62.92	-1,125.0	-9,999.8	6,726.1	6,633.1	93.01	72.316		
11,500.0	7,988.8	12,297.0	7,899.3	39.0	81.0	62.92	-1,125.0	-9,999.8	6,626.1	6,533.0	93.10	71.170		
11,600.0	7,987.9	12,297.0	7,899.3	40.1	81.0	62.92	-1,125.0	-9,999.8	6,526.2	6,433.0	93.20	70.026		
11,700.0	7,987.1	12,297.0	7,899.3	41.2	81.0	62.92	-1,125.0	-9,999.8	6,426.2	6,332.9	93.29	68.882		
11,800.0	7,986.3	12,297.0	7,899.3	42.3	81.0	62.92	-1,125.0	-9,999.8	6,326.2	6,232.8	93.39	67.739		
11,900.0	7,985.5	12,297.0	7,899.3	43.3	81.0	62.92	-1,125.0	-9,999.8	6,226.2	6,132.8	93.49	66.597		
12,000.0	7,984.7	12,297.0	7,899.3	44.4	81.0	62.92	-1,125.0	-9,999.8	6,126.3	6,032.7	93.59	65.456		
12,100.0	7,983.9	12,297.0	7,899.3	45.5	81.0	62.92	-1,125.0	-9,999.8	6,026.3	5,932.6	93.70	64.316		
12,200.0	7,983.0	12,297.0	7,899.3	46.6	81.0	62.92	-1,125.0	-9,999.8	5,926.3	5,832.5	93.81	63.177		
12,300.0	7,982.2	12,297.0	7,899.3	47.7	81.0	62.92	-1,125.0	-9,999.8	5,826.4	5,732.5	93.91	62.039		
12,400.0	7,981.4	12,297.0	7,899.3	48.8	81.0	62.92	-1,125.0	-9,999.8	5,726.4	5,632.4	94.03	60.903		
12,500.0	7,980.6	12,297.0	7,899.3	49.9	81.0	62.92	-1,125.0	-9,999.8	5,626.4	5,532.3	94.14	59.768		
12,600.0	7,979.8	12,297.0	7,899.3	51.0	81.0	62.92	-1,125.0	-9,999.8	5,526.5	5,432.2	94.25	58.635		
12,700.0	7,979.0	12,297.0	7,899.3	52.1	81.0	62.92	-1,125.0	-9,999.8	5,426.5	5,332.1	94.37	57.503		
12,800.0	7,978.1	12,297.0	7,899.3	53.1	81.0	62.92	-1,125.0	-9,999.8	5,326.5	5,232.1	94.49	56.372		
12,900.0	7,977.3	12,297.0	7,899.3	54.2	81.0	62.92	-1,125.0	-9,999.8	5,226.6	5,132.0	94.61	55.243		
13,000.0	7,976.5	12,297.0	7,899.3	55.3	81.0	62.92	-1,125.0	-9,999.8	5,126.6	5,031.9	94.73	54.116		

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 18 STATE COM #1H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7347-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.0	7,975.7	12,297.0	7,899.3	56.4	81.0	62.92	-1,125.0	-9,999.8	5,026.7	4,931.8	94.86	52.991	
13,171.4	7,975.1	12,297.0	7,899.3	57.2	81.0	62.92	-1,125.0	-9,999.8	4,955.3	4,860.4	94.95	52.189	
13,200.0	7,974.9	12,297.0	7,899.3	57.5	81.0	50.75	-1,125.0	-9,999.8	4,926.7	4,831.7	94.98	51.868	
13,245.7	7,974.5	12,297.0	7,899.3	58.0	81.0	3.42	-1,125.0	-9,999.8	4,881.0	4,786.0	95.03	51.361	
13,300.0	7,974.0	12,297.0	7,899.3	58.6	81.0	3.42	-1,125.0	-9,999.8	4,826.7	4,731.6	95.09	50.761	
13,400.0	7,973.2	12,297.0	7,899.3	59.7	81.0	3.42	-1,125.0	-9,999.8	4,726.7	4,631.5	95.19	49.658	
13,500.0	7,972.4	12,297.0	7,899.3	60.8	81.0	3.42	-1,125.0	-9,999.8	4,626.7	4,531.5	95.29	48.557	
13,600.0	7,971.6	12,297.0	7,899.3	61.9	81.0	3.42	-1,125.0	-9,999.8	4,526.8	4,431.4	95.39	47.457	
13,700.0	7,970.8	12,297.0	7,899.3	63.0	81.0	3.42	-1,125.0	-9,999.8	4,426.8	4,331.3	95.49	46.359	
13,800.0	7,969.9	12,297.0	7,899.3	64.1	81.0	3.42	-1,125.0	-9,999.8	4,326.8	4,231.2	95.59	45.263	
13,900.0	7,969.1	12,297.0	7,899.3	65.2	81.0	3.42	-1,125.0	-9,999.8	4,226.8	4,131.1	95.70	44.169	
14,000.0	7,968.3	12,297.0	7,899.3	66.3	81.0	3.42	-1,125.0	-9,999.8	4,126.8	4,031.0	95.80	43.076	
14,100.0	7,967.5	12,297.0	7,899.3	67.4	81.0	3.42	-1,125.0	-9,999.8	4,026.8	3,930.9	95.91	41.986	
14,200.0	7,966.7	12,297.0	7,899.3	68.5	81.0	3.42	-1,125.0	-9,999.8	3,926.8	3,830.8	96.02	40.897	
14,300.0	7,965.8	12,297.0	7,899.3	69.6	81.0	3.42	-1,125.0	-9,999.8	3,826.8	3,730.7	96.13	39.811	
14,400.0	7,965.0	12,297.0	7,899.3	70.7	81.0	3.42	-1,125.0	-9,999.8	3,726.9	3,630.6	96.24	38.727	
14,500.0	7,964.2	12,297.0	7,899.3	71.8	81.0	3.42	-1,125.0	-9,999.8	3,626.9	3,530.5	96.35	37.644	
14,600.0	7,963.4	12,297.0	7,899.3	72.9	81.0	3.42	-1,125.0	-9,999.8	3,526.9	3,430.4	96.46	36.564	
14,700.0	7,962.6	12,297.0	7,899.3	74.0	81.0	3.42	-1,125.0	-9,999.8	3,426.9	3,330.3	96.57	35.486	
14,800.0	7,961.7	12,297.0	7,899.3	75.1	81.0	3.42	-1,125.0	-9,999.8	3,326.9	3,230.2	96.68	34.410	
14,900.0	7,960.9	12,297.0	7,899.3	76.2	81.0	3.42	-1,125.0	-9,999.8	3,227.0	3,130.2	96.80	33.336	
15,000.0	7,960.1	12,297.0	7,899.3	77.3	81.0	3.42	-1,125.0	-9,999.8	3,127.0	3,030.1	96.92	32.265	
15,100.0	7,959.3	12,297.0	7,899.3	78.4	81.0	3.42	-1,125.0	-9,999.8	3,027.0	2,930.0	97.03	31.196	
15,200.0	7,958.5	12,297.0	7,899.3	79.5	81.0	3.42	-1,125.0	-9,999.8	2,927.0	2,829.9	97.15	30.129	
15,300.0	7,957.6	12,297.0	7,899.3	80.6	81.0	3.42	-1,125.0	-9,999.8	2,827.1	2,729.8	97.27	29.064	
15,400.0	7,956.8	12,297.0	7,899.3	81.7	81.0	3.42	-1,125.0	-9,999.8	2,727.1	2,629.7	97.39	28.002	
15,500.0	7,956.0	12,297.0	7,899.3	82.8	81.0	3.42	-1,125.0	-9,999.8	2,627.1	2,529.6	97.51	26.942	
15,600.0	7,955.2	12,297.0	7,899.3	84.0	81.0	3.42	-1,125.0	-9,999.8	2,527.1	2,429.5	97.63	25.884	
15,700.0	7,954.4	12,297.0	7,899.3	85.1	81.0	3.42	-1,125.0	-9,999.8	2,427.2	2,329.4	97.76	24.829	
15,800.0	7,953.5	12,297.0	7,899.3	86.2	81.0	3.42	-1,125.0	-9,999.8	2,327.2	2,229.3	97.88	23.776	
15,900.0	7,952.7	12,297.0	7,899.3	87.3	81.0	3.42	-1,125.0	-9,999.8	2,227.3	2,129.3	98.01	22.725	
16,000.0	7,951.9	12,297.0	7,899.3	88.4	81.0	3.42	-1,125.0	-9,999.8	2,127.3	2,029.2	98.14	21.677	
16,100.0	7,951.1	12,297.0	7,899.3	89.5	81.0	3.42	-1,125.0	-9,999.8	2,027.4	1,929.1	98.27	20.631	
16,200.0	7,950.3	12,297.0	7,899.3	90.6	81.0	3.42	-1,125.0	-9,999.8	1,927.4	1,829.0	98.40	19.588	
16,300.0	7,949.4	12,297.0	7,899.3	91.7	81.0	3.42	-1,125.0	-9,999.8	1,827.5	1,729.0	98.53	18.547	
16,400.0	7,948.6	12,297.0	7,899.3	92.8	81.0	3.42	-1,125.0	-9,999.8	1,727.6	1,628.9	98.67	17.509	
16,500.0	7,947.8	12,297.0	7,899.3	93.9	81.0	3.42	-1,125.0	-9,999.8	1,627.6	1,528.8	98.81	16.472	
16,600.0	7,947.0	12,297.0	7,899.3	95.0	81.0	3.42	-1,125.0	-9,999.8	1,527.7	1,428.8	98.95	15.439	
16,700.0	7,946.2	12,297.0	7,899.3	96.1	81.0	3.42	-1,125.0	-9,999.8	1,427.8	1,328.7	99.10	14.407	
16,800.0	7,945.3	12,297.0	7,899.3	97.2	81.0	3.42	-1,125.0	-9,999.8	1,328.0	1,228.7	99.26	13.378	
16,900.0	7,944.5	12,297.0	7,899.3	98.4	81.0	3.42	-1,125.0	-9,999.8	1,228.1	1,128.7	99.43	12.352	
17,000.0	7,943.7	12,297.0	7,899.3	99.5	81.0	3.42	-1,125.0	-9,999.8	1,128.3	1,028.7	99.61	11.327	
17,100.0	7,942.9	12,297.0	7,899.3	100.6	81.0	3.42	-1,125.0	-9,999.8	1,028.5	928.7	99.80	10.305	
17,200.0	7,942.1	12,297.0	7,899.3	101.7	81.0	3.42	-1,125.0	-9,999.8	928.7	828.7	100.02	9.285	
17,300.0	7,941.2	12,297.0	7,899.3	102.8	81.0	3.42	-1,125.0	-9,999.8	829.0	728.7	100.28	8.267	
17,400.0	7,940.4	12,297.0	7,899.3	103.9	81.0	3.42	-1,125.0	-9,999.8	729.4	628.8	100.60	7.250	
17,500.0	7,939.6	12,297.0	7,899.3	105.0	81.0	3.42	-1,125.0	-9,999.8	629.9	528.8	101.01	6.236	
17,600.0	7,938.8	12,297.0	7,899.3	106.1	81.0	3.42	-1,125.0	-9,999.8	530.5	428.9	101.60	5.222	
17,700.0	7,938.0	12,297.0	7,899.3	107.2	81.0	3.42	-1,125.0	-9,999.8	431.5	329.0	102.51	4.210	
17,800.0	7,937.1	12,297.0	7,899.3	108.3	81.0	3.42	-1,125.0	-9,999.8	333.1	229.0	104.11	3.200	
17,900.0	7,936.3	12,297.0	7,899.3	109.5	81.0	3.42	-1,125.0	-9,999.8	236.0	128.7	107.33	2.199	
17,996.2	7,935.5	12,297.0	7,899.3	110.5	81.0	3.42	-1,125.0	-9,999.8	146.4	32.1	114.31	1.281	Shut in Produces, CC, ES, SF

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	29.0	29.0	3.0	3.0	-0.55	30.0	-0.3	30.0				
100.0	100.0	129.0	129.0	3.0	3.0	-0.55	30.0	-0.3	30.0	24.0	6.01	4.996	
200.0	200.0	229.0	229.0	3.0	3.0	-0.55	30.0	-0.3	30.0	23.9	6.05	4.957	
300.0	300.0	329.0	329.0	3.0	3.1	-0.55	30.0	-0.3	30.0	23.9	6.15	4.882	
400.0	400.0	429.0	429.0	3.0	3.3	-0.55	30.0	-0.3	30.0	23.7	6.28	4.775	
500.0	500.0	529.0	529.0	3.1	3.4	-0.55	30.0	-0.3	30.0	23.5	6.46	4.645	
600.0	600.0	629.0	629.0	3.1	3.6	-0.55	30.0	-0.3	30.0	23.3	6.67	4.498	
700.0	700.0	729.0	729.0	3.1	3.8	-0.55	30.0	-0.3	30.0	23.1	6.91	4.341	
800.0	800.0	829.0	829.0	3.2	4.0	-0.55	30.0	-0.3	30.0	22.8	7.18	4.179	
900.0	900.0	929.0	929.0	3.2	4.3	-0.55	30.0	-0.3	30.0	22.5	7.47	4.017	
1,000.0	1,000.0	1,029.0	1,029.0	3.2	4.5	-0.55	30.0	-0.3	30.0	22.2	7.78	3.857	
1,100.0	1,100.0	1,129.0	1,129.0	3.3	4.8	-0.55	30.0	-0.3	30.0	21.9	8.11	3.701	
1,200.0	1,200.0	1,229.0	1,229.0	3.4	5.1	-0.55	30.0	-0.3	30.0	21.6	8.45	3.551	
1,300.0	1,300.0	1,329.0	1,329.0	3.4	5.4	-0.55	30.0	-0.3	30.0	21.2	8.80	3.408	
1,400.0	1,400.0	1,429.0	1,429.0	3.5	5.7	-0.55	30.0	-0.3	30.0	20.8	9.17	3.272	
1,500.0	1,500.0	1,529.0	1,529.0	3.5	6.0	-0.55	30.0	-0.3	30.0	20.5	9.55	3.143	
1,600.0	1,600.0	1,629.0	1,629.0	3.6	6.3	-0.55	30.0	-0.3	30.0	20.1	9.93	3.021	
1,700.0	1,700.0	1,729.0	1,729.0	3.7	6.6	-0.55	30.0	-0.3	30.0	19.7	10.32	2.906	
1,800.0	1,800.0	1,829.0	1,829.0	3.8	7.0	-0.55	30.0	-0.3	30.0	19.3	10.72	2.798	
1,900.0	1,900.0	1,929.0	1,929.0	3.9	7.3	-0.55	30.0	-0.3	30.0	18.9	11.13	2.696	
2,000.0	2,000.0	2,029.0	2,029.0	3.9	7.6	-0.55	30.0	-0.3	30.0	18.5	11.54	2.599	
2,100.0	2,100.0	2,129.0	2,129.0	4.0	7.9	-0.55	30.0	-0.3	30.0	18.0	11.96	2.509	
2,200.0	2,200.0	2,229.0	2,229.0	4.1	8.3	-0.55	30.0	-0.3	30.0	17.6	12.38	2.423	
2,300.0	2,300.0	2,329.0	2,329.0	4.2	8.6	-0.55	30.0	-0.3	30.0	17.2	12.81	2.343	
2,400.0	2,400.0	2,429.0	2,429.0	4.3	8.9	-0.55	30.0	-0.3	30.0	16.8	13.24	2.266	
2,403.1	2,403.1	2,432.1	2,432.1	4.3	8.9	-0.55	30.0	-0.3	30.0	16.8	13.25	2.264 CC	
2,500.0	2,500.0	2,528.7	2,528.7	4.4	9.3	-0.57	30.1	-0.3	30.1	16.5	13.67	2.205 ES, SF	
2,600.0	2,600.0	2,627.5	2,627.4	4.4	9.6	-167.43	32.8	-0.5	34.6	20.5	14.02	2.465	
2,700.0	2,699.8	2,725.9	2,725.6	4.4	9.9	-169.04	38.8	-0.8	45.7	31.4	14.31	3.195	
2,800.0	2,799.5	2,824.6	2,824.2	4.4	10.3	-170.57	45.6	-1.2	61.2	46.6	14.61	4.190	
2,900.0	2,898.9	2,923.1	2,922.4	4.3	10.6	-171.70	52.5	-1.6	78.5	63.5	14.92	5.259	
3,000.0	2,998.4	3,021.6	3,020.7	4.3	11.0	-172.42	59.4	-2.0	95.7	80.5	15.24	6.283	
3,100.0	3,097.8	3,120.1	3,118.9	4.3	11.3	-172.92	66.2	-2.4	113.0	97.4	15.56	7.264	
3,200.0	3,197.3	3,218.6	3,217.2	4.3	11.6	-173.29	73.1	-2.8	130.3	114.4	15.88	8.202	
3,300.0	3,296.7	3,317.1	3,315.4	4.3	12.0	-173.57	79.9	-3.2	147.6	131.3	16.21	9.101	
3,400.0	3,396.2	3,415.6	3,413.7	4.3	12.3	-173.80	86.8	-3.6	164.8	148.3	16.55	9.961	
3,500.0	3,495.6	3,514.1	3,512.0	4.3	12.7	-173.98	93.7	-4.0	182.1	165.2	16.89	10.783	
3,600.0	3,595.1	3,612.6	3,610.2	4.3	13.0	-174.13	100.5	-4.4	199.4	182.2	17.23	11.570	
3,700.0	3,694.5	3,711.1	3,708.5	4.3	13.4	-174.25	107.4	-4.7	216.7	199.1	17.58	12.323	
3,800.0	3,794.0	3,809.6	3,806.7	4.3	13.7	-174.36	114.2	-5.1	234.0	216.0	17.94	13.043	
3,900.0	3,893.4	3,908.1	3,905.0	4.3	14.0	-174.45	121.1	-5.5	251.3	233.0	18.30	13.731	
4,000.0	3,992.9	4,006.6	4,003.2	4.3	14.4	-174.53	128.0	-5.9	268.6	249.9	18.66	14.390	
4,100.0	4,092.3	4,105.1	4,101.5	4.3	14.7	-174.60	134.8	-6.3	285.8	266.8	19.03	15.021	
4,200.0	4,191.8	4,203.6	4,199.7	4.4	15.1	-174.67	141.7	-6.7	303.1	283.7	19.40	15.623	
4,300.0	4,291.2	4,302.1	4,298.0	4.4	15.4	-174.72	148.5	-7.1	320.4	300.6	19.78	16.200	
4,400.0	4,390.7	4,400.5	4,396.2	4.4	15.8	-174.77	155.4	-7.5	337.7	317.6	20.16	16.752	
4,500.0	4,490.1	4,499.0	4,494.5	4.5	16.1	-174.82	162.3	-7.9	355.0	334.5	20.54	17.280	
4,600.0	4,589.6	4,597.5	4,592.7	4.6	16.5	-174.86	169.1	-8.3	372.3	351.4	20.93	17.785	
4,700.0	4,689.0	4,696.0	4,691.0	4.6	16.8	-174.90	176.0	-8.7	389.6	368.3	21.33	18.269	
4,800.0	4,788.5	4,794.5	4,789.3	4.7	17.2	-174.93	182.8	-9.1	406.9	385.2	21.72	18.732	
4,900.0	4,887.9	4,893.0	4,887.5	4.7	17.5	-174.96	189.7	-9.5	424.2	402.1	22.12	19.175	
5,000.0	4,987.4	4,991.5	4,985.8	4.8	17.9	-174.99	196.5	-9.9	441.5	418.9	22.52	19.600	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY ST COM #503H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,086.9	5,090.0	5,084.0	4.9	18.2	-175.02	203.4	-10.3	458.8	435.8	22.93	20.007		
5,200.0	5,186.3	5,188.5	5,182.3	5.0	18.6	-175.04	210.3	-10.7	476.0	452.7	23.34	20.396		
5,300.0	5,285.8	5,287.0	5,280.5	5.0	18.9	-175.07	217.1	-11.1	493.3	469.6	23.75	20.770		
5,400.0	5,385.2	5,385.5	5,378.8	5.1	19.3	-175.09	224.0	-11.5	510.6	486.5	24.17	21.128		
5,500.0	5,484.7	5,490.9	5,484.0	5.2	19.6	-175.12	230.8	-11.9	527.5	502.9	24.60	21.439		
5,600.0	5,584.1	5,599.9	5,592.8	5.3	20.0	-175.16	236.0	-12.2	542.5	517.5	25.05	21.661		
5,700.0	5,683.6	5,709.4	5,702.4	5.4	20.4	-175.23	239.0	-12.3	555.7	530.2	25.49	21.803		
5,800.0	5,783.0	5,819.1	5,812.0	5.4	20.8	-175.32	240.0	-12.4	567.0	541.1	25.93	21.869		
5,900.0	5,882.5	5,918.6	5,911.5	5.5	21.2	-175.40	240.0	-12.4	577.4	551.1	26.35	21.911		
6,000.0	5,981.9	6,018.0	6,010.9	5.6	21.5	-175.48	240.0	-12.4	587.9	561.1	26.78	21.950		
6,100.0	6,081.4	6,117.5	6,110.4	5.7	21.9	-175.56	240.0	-12.4	598.3	571.1	27.21	21.986		
6,200.0	6,180.8	6,216.9	6,209.8	5.8	22.2	-175.64	240.0	-12.4	608.7	581.1	27.65	22.018		
6,300.0	6,280.3	6,316.4	6,309.3	5.9	22.6	-175.71	240.0	-12.4	619.1	591.0	28.08	22.049		
6,400.0	6,379.7	6,415.8	6,408.7	6.0	22.9	-175.78	240.0	-12.4	629.6	601.0	28.52	22.077		
6,500.0	6,479.2	6,515.3	6,508.2	6.1	23.3	-175.85	240.0	-12.4	640.0	611.0	28.96	22.102		
6,600.0	6,578.6	6,614.7	6,607.6	6.2	23.6	-175.92	240.0	-12.4	650.4	621.0	29.40	22.126		
6,700.0	6,678.1	6,714.2	6,707.1	6.2	24.0	-175.98	240.0	-12.4	660.8	631.0	29.84	22.147		
6,800.0	6,777.5	6,813.6	6,806.5	6.3	24.3	-176.05	240.0	-12.4	671.3	641.0	30.28	22.167		
6,900.0	6,877.0	6,913.1	6,906.0	6.4	24.7	-176.11	240.0	-12.4	681.7	651.0	30.73	22.185		
7,000.0	6,976.4	7,012.5	7,005.4	6.5	25.0	-176.16	240.0	-12.4	692.1	660.9	31.17	22.202		
7,100.0	7,075.9	7,112.0	7,104.9	6.6	25.4	-176.22	240.0	-12.4	702.5	670.9	31.62	22.217		
7,200.0	7,175.3	7,211.4	7,204.3	6.7	25.7	-176.28	240.0	-12.4	713.0	680.9	32.07	22.230		
7,300.0	7,274.8	7,310.9	7,303.8	6.8	26.1	-176.33	240.0	-12.4	723.4	690.9	32.52	22.243		
7,400.0	7,374.3	7,410.4	7,403.3	6.9	26.5	-176.38	240.0	-12.4	733.8	700.9	32.98	22.254		
7,500.0	7,473.7	7,509.8	7,502.7	7.1	26.8	-176.43	240.0	-12.4	744.3	710.8	33.43	22.264		
7,580.8	7,554.1	7,581.3	7,574.2	7.1	27.1	-176.55	240.0	-13.5	753.0	719.1	33.81	22.269		
7,600.0	7,573.1	7,596.1	7,589.0	7.1	27.1	164.81	240.0	-14.7	755.4	721.5	33.88	22.296		
7,625.0	7,597.9	7,615.4	7,608.1	7.1	27.2	148.57	240.0	-17.0	759.0	725.1	33.97	22.345		
7,650.0	7,622.5	7,634.6	7,627.0	7.1	27.2	138.54	239.9	-20.1	763.3	729.3	34.06	22.410		
7,675.0	7,646.9	7,653.6	7,645.6	7.1	27.3	131.92	239.9	-23.9	768.2	734.0	34.15	22.492		
7,700.0	7,670.9	7,675.0	7,666.4	7.1	27.4	127.19	239.8	-29.0	773.6	739.4	34.25	22.588		
7,725.0	7,694.7	7,691.2	7,682.0	7.2	27.4	123.59	239.8	-33.5	779.6	745.2	34.34	22.700		
7,750.0	7,718.0	7,709.8	7,699.6	7.2	27.5	120.67	239.7	-39.3	786.1	751.7	34.44	22.826		
7,775.0	7,740.8	7,728.2	7,716.9	7.2	27.5	118.19	239.7	-45.7	793.1	758.6	34.54	22.966		
7,800.0	7,763.0	7,746.5	7,733.8	7.2	27.6	116.02	239.6	-52.8	800.6	766.0	34.63	23.118		
7,825.0	7,784.7	7,764.7	7,750.3	7.2	27.7	114.06	239.5	-60.4	808.6	773.9	34.73	23.282		
7,850.0	7,805.7	7,782.7	7,766.3	7.3	27.7	112.24	239.4	-68.6	817.0	782.2	34.83	23.457		
7,875.0	7,825.9	7,800.0	7,781.5	7.3	27.8	110.52	239.4	-77.0	825.8	790.9	34.93	23.642		
7,900.0	7,845.4	7,818.3	7,797.1	7.3	27.8	108.88	239.3	-86.5	835.0	800.0	35.03	23.836		
7,925.0	7,864.0	7,836.0	7,811.8	7.4	27.9	107.30	239.2	-96.2	844.6	809.5	35.14	24.039		
7,950.0	7,881.7	7,853.5	7,826.1	7.4	27.9	105.76	239.1	-106.4	854.5	819.3	35.24	24.249		
7,975.0	7,898.5	7,870.9	7,839.9	7.5	28.0	104.24	239.0	-117.0	864.8	829.4	35.35	24.466		
8,000.0	7,914.4	7,888.2	7,853.2	7.5	28.1	102.76	238.9	-128.1	875.3	839.8	35.45	24.688		
8,025.0	7,929.2	7,905.4	7,866.0	7.6	28.1	101.29	238.7	-139.5	886.1	850.5	35.56	24.915		
8,050.0	7,942.9	7,925.0	7,880.1	7.6	28.2	99.89	238.6	-153.1	897.1	861.4	35.68	25.143		
8,075.0	7,955.5	7,939.6	7,890.2	7.7	28.2	98.42	238.5	-163.6	908.3	872.5	35.79	25.379		
8,100.0	7,967.0	7,956.6	7,901.6	7.7	28.3	97.01	238.4	-176.3	919.7	883.8	35.90	25.614		
8,125.0	7,977.3	7,975.0	7,913.5	7.8	28.3	95.65	238.2	-190.4	931.2	895.2	36.02	25.850		
8,150.0	7,986.4	7,990.5	7,923.0	7.8	28.3	94.25	238.1	-202.6	942.9	906.7	36.14	26.089		
8,175.0	7,994.3	8,007.4	7,932.9	7.9	28.4	92.91	238.0	-216.3	954.7	918.4	36.26	26.327		
8,200.0	8,001.0	8,025.0	7,942.7	8.0	28.4	91.61	237.8	-230.9	966.5	930.1	36.39	26.563		
8,225.0	8,006.3	8,041.3	7,951.4	8.1	28.5	90.31	237.7	-244.8	978.4	941.9	36.51	26.800		

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY ST COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,250.0	8,010.4	8,058.4	7,959.9	8.2	28.5	89.06	237.6	-259.5	990.3	953.7	36.63	27.034	
8,275.0	8,013.3	8,075.0	7,967.6	8.3	28.6	87.83	237.4	-274.2	1,002.3	965.5	36.76	27.266	
8,300.0	8,014.8	8,092.7	7,975.3	8.4	28.6	86.68	237.3	-290.2	1,014.2	977.3	36.89	27.495	
8,320.6	8,015.1	8,107.0	7,981.1	8.5	28.6	85.74	237.1	-303.2	1,024.0	987.0	36.99	27.682	
8,400.0	8,014.4	8,165.3	8,000.6	9.0	28.8	87.14	236.6	-358.2	1,061.2	1,023.7	37.44	28.345	
8,500.0	8,013.6	8,246.4	8,016.2	9.6	29.0	88.25	235.8	-437.6	1,106.4	1,068.3	38.10	29.041	
8,600.0	8,012.7	8,333.8	8,018.8	10.4	29.1	88.53	235.0	-525.0	1,149.0	1,110.1	38.86	29.565	
8,700.0	8,011.9	8,425.7	8,018.0	11.2	29.3	88.61	234.1	-616.8	1,188.5	1,148.8	39.74	29.909	
8,800.0	8,011.1	8,518.9	8,017.2	12.0	29.6	88.68	233.1	-710.0	1,224.8	1,184.1	40.71	30.086	
8,900.0	8,010.2	8,613.3	8,016.4	12.8	29.9	88.75	232.2	-804.4	1,257.8	1,216.0	41.77	30.111	
9,000.0	8,009.4	8,708.7	8,015.6	13.7	30.2	88.80	231.3	-899.8	1,287.5	1,244.6	42.92	29.999	
9,100.0	8,008.5	8,805.2	8,014.8	14.6	30.5	88.85	230.3	-996.3	1,313.8	1,269.7	44.14	29.765	
9,200.0	8,007.7	8,902.5	8,014.0	15.6	30.9	88.90	229.4	-1,093.6	1,336.8	1,291.3	45.43	29.423	
9,300.0	8,006.8	9,000.6	8,013.1	16.5	31.3	88.94	228.4	-1,191.7	1,356.3	1,309.5	46.79	28.987	
9,400.0	8,006.0	9,099.3	8,012.3	17.5	31.8	88.97	227.4	-1,290.3	1,372.5	1,324.2	48.21	28.468	
9,500.0	8,005.1	9,198.5	8,011.5	18.4	32.3	89.00	226.4	-1,389.5	1,385.1	1,335.4	49.68	27.880	
9,600.0	8,004.3	9,298.0	8,010.6	19.4	32.8	89.03	225.5	-1,489.1	1,394.3	1,343.1	51.20	27.231	
9,700.0	8,003.5	9,397.9	8,009.8	20.4	33.4	89.05	224.5	-1,588.9	1,400.0	1,347.3	52.77	26.532	
9,800.0	8,002.7	9,497.8	8,008.9	21.4	34.0	89.07	223.5	-1,688.9	1,402.3	1,347.9	54.37	25.791	
9,815.2	8,002.5	9,513.1	8,008.8	21.5	34.1	89.07	223.4	-1,704.1	1,402.3	1,347.7	54.62	25.675	
9,900.0	8,001.8	9,597.8	8,008.1	22.3	34.6	89.07	222.5	-1,788.9	1,402.3	1,346.2	56.00	25.038	
10,000.0	8,001.0	9,697.8	8,007.2	23.3	35.2	89.07	221.5	-1,888.8	1,402.2	1,344.5	57.68	24.312	
10,100.0	8,000.2	9,797.8	8,006.4	24.3	35.9	89.07	220.5	-1,988.8	1,402.2	1,342.8	59.38	23.614	
10,200.0	7,999.4	9,897.8	8,005.6	25.3	36.5	89.07	219.6	-2,088.8	1,402.1	1,341.0	61.11	22.945	
10,300.0	7,998.6	9,997.8	8,004.7	26.4	37.3	89.07	218.6	-2,188.8	1,402.1	1,339.2	62.86	22.303	
10,400.0	7,997.8	10,097.8	8,003.9	27.4	38.0	89.06	217.6	-2,288.8	1,402.0	1,337.4	64.65	21.688	
10,500.0	7,996.9	10,197.8	8,003.0	28.4	38.7	89.06	216.6	-2,388.8	1,402.0	1,335.5	66.45	21.098	
10,600.0	7,996.1	10,297.8	8,002.2	29.5	39.5	89.06	215.6	-2,488.8	1,401.9	1,333.7	68.28	20.533	
10,700.0	7,995.3	10,397.8	8,001.3	30.5	40.2	89.06	214.6	-2,588.8	1,401.9	1,331.8	70.12	19.992	
10,800.0	7,994.5	10,497.8	8,000.5	31.6	41.0	89.06	213.7	-2,688.8	1,401.8	1,329.8	71.99	19.473	
10,900.0	7,993.7	10,597.8	7,999.6	32.6	41.8	89.06	212.7	-2,788.8	1,401.8	1,327.9	73.87	18.976	
11,000.0	7,992.8	10,697.8	7,998.8	33.7	42.7	89.06	211.7	-2,888.8	1,401.7	1,326.0	75.77	18.500	
11,100.0	7,992.0	10,797.8	7,997.9	34.7	43.5	89.06	210.7	-2,988.8	1,401.7	1,324.0	77.69	18.043	
11,200.0	7,991.2	10,897.8	7,997.1	35.8	44.3	89.06	209.7	-3,088.7	1,401.6	1,322.0	79.62	17.605	
11,300.0	7,990.4	10,997.8	7,996.3	36.9	45.2	89.05	208.7	-3,188.7	1,401.6	1,320.0	81.56	17.185	
11,400.0	7,989.6	11,097.8	7,995.4	37.9	46.1	89.05	207.8	-3,288.7	1,401.6	1,318.0	83.51	16.782	
11,500.0	7,988.8	11,197.8	7,994.6	39.0	46.9	89.05	206.8	-3,388.7	1,401.5	1,316.0	85.48	16.395	
11,600.0	7,987.9	11,297.8	7,993.7	40.1	47.8	89.05	205.8	-3,488.7	1,401.5	1,314.0	87.46	16.024	
11,700.0	7,987.1	11,397.8	7,992.9	41.2	48.7	89.05	204.8	-3,588.7	1,401.4	1,312.0	89.45	15.667	
11,800.0	7,986.3	11,497.8	7,992.0	42.3	49.6	89.05	203.8	-3,688.7	1,401.4	1,309.9	91.45	15.324	
11,900.0	7,985.5	11,597.8	7,991.2	43.3	50.6	89.05	202.8	-3,788.7	1,401.3	1,307.9	93.46	14.994	
12,000.0	7,984.7	11,697.8	7,990.3	44.4	51.5	89.05	201.8	-3,888.7	1,401.3	1,305.8	95.48	14.676	
12,100.0	7,983.9	11,797.8	7,989.5	45.5	52.4	89.04	200.9	-3,988.7	1,401.2	1,303.7	97.51	14.370	
12,200.0	7,983.0	11,897.8	7,988.6	46.6	53.3	89.04	199.9	-4,088.7	1,401.2	1,301.6	99.54	14.076	
12,300.0	7,982.2	11,997.8	7,987.8	47.7	54.3	89.04	198.9	-4,188.7	1,401.1	1,299.6	101.59	13.793	
12,400.0	7,981.4	12,097.8	7,986.9	48.8	55.2	89.04	197.9	-4,288.6	1,401.1	1,297.5	103.64	13.519	
12,500.0	7,980.6	12,197.8	7,986.1	49.9	56.2	89.04	196.9	-4,388.6	1,401.0	1,295.4	105.69	13.256	
12,600.0	7,979.8	12,297.8	7,985.3	51.0	57.2	89.04	195.9	-4,488.6	1,401.0	1,293.2	107.75	13.002	
12,700.0	7,979.0	12,397.8	7,984.4	52.1	58.1	89.04	195.0	-4,588.6	1,401.0	1,291.1	109.82	12.756	
12,800.0	7,978.1	12,497.8	7,983.6	53.1	59.1	89.04	194.0	-4,688.6	1,400.9	1,289.0	111.90	12.519	
12,900.0	7,977.3	12,597.8	7,982.7	54.2	60.1	89.03	193.0	-4,788.6	1,400.9	1,286.9	113.98	12.290	
13,000.0	7,976.5	12,697.8	7,981.9	55.3	61.1	89.03	192.0	-4,888.6	1,400.8	1,284.7	116.07	12.069	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY ST COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.0	7,975.7	12,797.8	7,981.0	56.4	62.0	89.03	191.0	-4,988.6	1,400.8	1,282.6	118.16	11.855	
13,171.4	7,975.1	12,869.2	7,980.4	57.2	62.8	89.03	190.3	-5,060.0	1,400.7	1,281.1	119.65	11.707	
13,200.0	7,974.9	12,889.2	7,980.3	57.5	62.9	89.04	190.2	-5,080.0	1,400.7	1,280.5	120.13	11.659	
13,245.7	7,974.5	12,919.9	7,980.0	58.0	63.3	89.04	190.2	-5,110.7	1,400.3	1,279.5	120.87	11.585	
13,286.6	7,974.2	12,947.5	7,979.8	58.5	63.5	89.04	190.6	-5,138.2	1,400.1	1,278.6	121.52	11.522	
13,300.0	7,974.0	12,960.8	7,979.6	58.6	63.7	89.04	190.8	-5,151.5	1,400.1	1,278.3	121.80	11.495	
13,400.0	7,973.2	13,060.8	7,978.8	59.7	64.7	89.04	192.4	-5,251.5	1,400.2	1,276.2	123.91	11.300	
13,500.0	7,972.4	13,160.8	7,978.0	60.8	65.7	89.04	194.1	-5,351.5	1,400.2	1,274.1	126.01	11.111	
13,600.0	7,971.6	13,260.8	7,977.1	61.9	66.7	89.04	195.8	-5,451.4	1,400.2	1,272.0	128.13	10.928	
13,700.0	7,970.8	13,360.8	7,976.3	63.0	67.7	89.04	197.4	-5,551.4	1,400.2	1,269.9	130.24	10.751	
13,800.0	7,969.9	13,460.8	7,975.4	64.1	68.7	89.04	199.1	-5,651.4	1,400.2	1,267.8	132.36	10.579	
13,900.0	7,969.1	13,560.8	7,974.6	65.2	69.7	89.04	200.8	-5,751.4	1,400.2	1,265.7	134.48	10.412	
14,000.0	7,968.3	13,660.8	7,973.7	66.3	70.7	89.04	202.4	-5,851.4	1,400.2	1,263.6	136.61	10.250	
14,100.0	7,967.5	13,760.8	7,972.9	67.4	71.7	89.03	204.1	-5,951.3	1,400.2	1,261.5	138.74	10.092	
14,200.0	7,966.7	13,860.8	7,972.1	68.5	72.8	89.03	205.8	-6,051.3	1,400.2	1,259.3	140.87	9.940	
14,300.0	7,965.8	13,960.8	7,971.2	69.6	73.8	89.03	207.4	-6,151.3	1,400.2	1,257.2	143.01	9.791	
14,400.0	7,965.0	14,060.8	7,970.4	70.7	74.8	89.03	209.1	-6,251.3	1,400.2	1,255.1	145.15	9.647	
14,500.0	7,964.2	14,160.8	7,969.5	71.8	75.9	89.03	210.7	-6,351.3	1,400.2	1,252.9	147.29	9.507	
14,600.0	7,963.4	14,260.8	7,968.7	72.9	76.9	89.03	212.4	-6,451.3	1,400.2	1,250.8	149.43	9.371	
14,700.0	7,962.6	14,360.8	7,967.8	74.0	77.9	89.03	214.1	-6,551.2	1,400.2	1,248.7	151.58	9.238	
14,800.0	7,961.7	14,460.8	7,967.0	75.1	79.0	89.03	215.7	-6,651.2	1,400.2	1,246.5	153.72	9.109	
14,900.0	7,960.9	14,560.8	7,966.1	76.2	80.0	89.03	217.4	-6,751.2	1,400.3	1,244.4	155.88	8.983	
15,000.0	7,960.1	14,660.8	7,965.3	77.3	81.1	89.03	219.1	-6,851.2	1,400.3	1,242.2	158.03	8.861	
15,100.0	7,959.3	14,760.8	7,964.5	78.4	82.1	89.02	220.7	-6,951.2	1,400.3	1,240.1	160.18	8.742	
15,200.0	7,958.5	14,860.8	7,963.6	79.5	83.2	89.02	222.4	-7,051.2	1,400.3	1,237.9	162.34	8.626	
15,300.0	7,957.6	14,960.8	7,962.8	80.6	84.2	89.02	224.1	-7,151.1	1,400.3	1,235.8	164.50	8.512	
15,400.0	7,956.8	15,060.8	7,961.9	81.7	85.3	89.02	225.7	-7,251.1	1,400.3	1,233.6	166.66	8.402	
15,500.0	7,956.0	15,160.8	7,961.1	82.8	86.3	89.02	227.4	-7,351.1	1,400.3	1,231.5	168.82	8.294	
15,600.0	7,955.2	15,260.8	7,960.2	84.0	87.4	89.02	229.1	-7,451.1	1,400.3	1,229.3	170.99	8.189	
15,700.0	7,954.4	15,360.8	7,959.4	85.1	88.4	89.02	230.7	-7,551.1	1,400.3	1,227.2	173.15	8.087	
15,800.0	7,953.5	15,460.8	7,958.5	86.2	89.5	89.02	232.4	-7,651.1	1,400.3	1,225.0	175.32	7.987	
15,900.0	7,952.7	15,560.8	7,957.7	87.3	90.5	89.02	234.0	-7,751.0	1,400.3	1,222.8	177.49	7.889	
16,000.0	7,951.9	15,660.8	7,956.9	88.4	91.6	89.02	235.7	-7,851.0	1,400.3	1,220.7	179.66	7.794	
16,100.0	7,951.1	15,760.8	7,956.0	89.5	92.6	89.02	237.4	-7,951.0	1,400.3	1,218.5	181.84	7.701	
16,200.0	7,950.3	15,860.8	7,955.2	90.6	93.7	89.01	239.0	-8,051.0	1,400.3	1,216.3	184.01	7.610	
16,300.0	7,949.4	15,960.8	7,954.3	91.7	94.8	89.01	240.7	-8,151.0	1,400.3	1,214.2	186.19	7.521	
16,400.0	7,948.6	16,060.8	7,953.5	92.8	95.8	89.01	242.4	-8,250.9	1,400.4	1,212.0	188.36	7.434	
16,500.0	7,947.8	16,160.8	7,952.6	93.9	96.9	89.01	244.0	-8,350.9	1,400.4	1,209.8	190.54	7.349	
16,600.0	7,947.0	16,260.8	7,951.8	95.0	98.0	89.01	245.7	-8,450.9	1,400.4	1,207.6	192.72	7.266	
16,700.0	7,946.2	16,360.8	7,950.9	96.1	99.0	89.01	247.4	-8,550.9	1,400.4	1,205.5	194.90	7.185	
16,800.0	7,945.3	16,460.8	7,950.1	97.2	100.1	89.01	249.0	-8,650.9	1,400.4	1,203.3	197.08	7.106	
16,900.0	7,944.5	16,560.8	7,949.3	98.4	101.2	89.01	250.7	-8,750.9	1,400.4	1,201.1	199.26	7.028	
17,000.0	7,943.7	16,660.8	7,948.4	99.5	102.3	89.01	252.4	-8,850.8	1,400.4	1,198.9	201.45	6.952	
17,100.0	7,942.9	16,760.8	7,947.6	100.6	103.3	89.01	254.0	-8,950.8	1,400.4	1,196.8	203.63	6.877	
17,200.0	7,942.1	16,860.8	7,946.7	101.7	104.4	89.00	255.7	-9,050.8	1,400.4	1,194.6	205.82	6.804	
17,300.0	7,941.2	16,960.8	7,945.9	102.8	105.5	89.00	257.3	-9,150.8	1,400.4	1,192.4	208.00	6.733	
17,400.0	7,940.4	17,060.8	7,945.0	103.9	106.5	89.00	259.0	-9,250.8	1,400.4	1,190.2	210.19	6.663	
17,500.0	7,939.6	17,160.8	7,944.2	105.0	107.6	89.00	260.7	-9,350.7	1,400.4	1,188.0	212.38	6.594	
17,600.0	7,938.8	17,260.8	7,943.4	106.1	108.7	89.00	262.3	-9,450.7	1,400.4	1,185.9	214.57	6.527	
17,700.0	7,938.0	17,360.8	7,942.5	107.2	109.8	89.00	264.0	-9,550.7	1,400.4	1,183.7	216.76	6.461	
17,800.0	7,937.1	17,460.8	7,941.7	108.3	110.9	89.00	265.7	-9,650.7	1,400.4	1,181.5	218.95	6.396	
17,900.0	7,936.3	17,560.8	7,940.8	109.5	111.9	89.00	267.3	-9,750.7	1,400.5	1,179.3	221.14	6.333	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY ST COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,996.2	7,935.5	17,657.0	7,940.0	110.5	113.0	89.00	268.9	-9,846.9	1,400.5	1,177.2	223.25	6.273	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 20 FED COM #5H - OWB - ACTUAL WELLP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7405-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	4.2	3.0	-135.57	-1,838.3	-1,802.2	2,574.3				
100.0	100.0	89.4	89.4	4.2	3.0	-135.56	-1,838.4	-1,802.6	2,574.8	2,567.5	7.24	355.492	
200.0	200.0	177.4	177.4	4.2	3.0	-135.56	-1,838.9	-1,803.5	2,575.9	2,568.7	7.25	355.404	
300.0	300.0	275.0	275.0	4.3	3.0	-135.55	-1,839.6	-1,804.6	2,577.2	2,569.9	7.26	354.926	
400.0	400.0	443.3	443.3	4.3	3.0	-135.55	-1,839.6	-1,804.5	2,577.1	2,569.8	7.28	354.141	
500.0	500.0	579.4	579.3	4.3	3.0	-135.52	-1,836.6	-1,803.6	2,575.0	2,567.8	7.29	353.324	
600.0	600.0	693.6	693.5	4.3	3.0	-135.46	-1,832.2	-1,803.0	2,571.9	2,564.6	7.31	351.890	
700.0	700.0	793.5	793.3	4.3	3.1	-135.40	-1,828.2	-1,802.5	2,568.7	2,561.4	7.34	350.117	
800.0	800.0	891.4	891.1	4.4	3.1	-135.35	-1,824.3	-1,802.0	2,565.5	2,558.1	7.37	348.064	
900.0	900.0	950.0	949.7	4.4	3.1	-135.32	-1,822.2	-1,802.0	2,563.1	2,555.7	7.40	346.141	
1,000.0	1,000.0	1,011.7	1,011.3	4.4	3.1	-135.29	-1,821.0	-1,802.8	2,562.4	2,555.0	7.44	344.490	
1,100.0	1,100.0	1,110.8	1,110.5	4.5	3.1	-135.24	-1,819.4	-1,804.3	2,562.4	2,554.9	7.48	342.588	
1,101.7	1,101.7	1,112.2	1,111.8	4.5	3.1	-135.24	-1,819.4	-1,804.3	2,562.4	2,554.9	7.48	342.557	
1,200.0	1,200.0	1,189.2	1,188.8	4.5	3.2	-135.22	-1,819.0	-1,805.3	2,562.9	2,555.3	7.52	340.915	
1,300.0	1,300.0	1,288.4	1,288.0	4.5	3.2	-135.19	-1,818.8	-1,806.6	2,563.6	2,556.1	7.56	339.020	
1,400.0	1,400.0	1,378.3	1,377.9	4.6	3.2	-135.17	-1,818.6	-1,808.1	2,564.7	2,557.1	7.61	337.043	
1,500.0	1,500.0	1,500.5	1,500.1	4.6	3.3	-135.12	-1,818.1	-1,810.1	2,565.6	2,557.9	7.67	334.525	
1,600.0	1,600.0	1,618.6	1,618.1	4.7	3.3	-135.09	-1,816.8	-1,811.4	2,565.5	2,557.8	7.73	331.768	
1,700.0	1,700.0	1,809.6	1,809.0	4.8	3.4	-135.08	-1,813.8	-1,809.1	2,563.7	2,555.9	7.82	327.849	
1,800.0	1,800.0	1,892.1	1,891.5	4.8	3.4	-135.11	-1,812.7	-1,805.6	2,559.8	2,552.0	7.89	324.452	
1,900.0	1,900.0	1,998.6	1,997.9	4.9	3.5	-135.14	-1,811.6	-1,802.6	2,557.1	2,549.2	7.97	320.756	
2,000.0	2,000.0	2,100.0	2,099.2	5.0	3.5	-135.21	-1,811.0	-1,797.8	2,553.4	2,545.4	8.06	316.885	
2,100.0	2,100.0	2,175.0	2,174.1	5.0	3.5	-135.27	-1,811.3	-1,794.1	2,550.2	2,542.1	8.14	313.407	
2,200.0	2,200.0	2,258.1	2,257.2	5.1	3.5	-135.33	-1,811.9	-1,791.0	2,548.1	2,539.9	8.22	309.946	
2,300.0	2,300.0	2,338.9	2,338.0	5.2	3.5	-135.36	-1,811.7	-1,789.4	2,546.6	2,538.3	8.31	306.437	
2,382.4	2,382.4	2,393.7	2,392.8	5.2	3.6	-135.34	-1,811.2	-1,789.6	2,546.2	2,537.8	8.38	303.964	
2,400.0	2,400.0	2,409.0	2,408.0	5.2	3.6	-135.34	-1,810.9	-1,789.8	2,546.2	2,537.8	8.39	303.449	
2,500.0	2,500.0	2,504.6	2,503.7	5.3	3.6	-135.29	-1,809.5	-1,791.5	2,546.3	2,537.8	8.47	300.456	
2,600.0	2,600.0	2,597.8	2,596.8	5.3	3.7	58.80	-1,808.2	-1,793.3	2,545.8	2,537.3	8.53	298.405	
2,700.0	2,699.8	2,650.0	2,649.0	5.3	3.7	58.90	-1,808.0	-1,794.3	2,544.3	2,535.8	8.55	297.728	
2,800.0	2,799.5	2,719.4	2,718.3	5.3	3.7	59.03	-1,809.8	-1,795.6	2,542.9	2,534.4	8.56	297.017	
2,900.0	2,898.9	2,885.5	2,884.4	5.3	3.7	59.33	-1,813.4	-1,796.5	2,539.2	2,530.6	8.61	294.790	
3,000.0	2,998.4	2,983.6	2,982.5	5.3	3.7	59.50	-1,814.8	-1,796.3	2,534.8	2,526.2	8.65	292.924	
3,100.0	3,097.8	3,081.5	3,080.4	5.2	3.7	59.67	-1,816.4	-1,796.1	2,530.5	2,521.8	8.70	290.931	
3,200.0	3,197.3	3,178.9	3,177.8	5.2	3.8	59.82	-1,818.7	-1,795.5	2,526.4	2,517.6	8.75	288.814	
3,300.0	3,296.7	3,272.1	3,270.9	5.2	3.8	59.96	-1,821.0	-1,794.8	2,522.3	2,513.5	8.80	286.662	
3,400.0	3,396.2	3,373.9	3,372.7	5.2	3.8	60.13	-1,823.4	-1,794.6	2,518.5	2,509.7	8.86	284.340	
3,500.0	3,495.6	3,469.9	3,468.7	5.2	3.8	60.30	-1,825.4	-1,794.5	2,514.8	2,505.9	8.92	281.995	
3,600.0	3,595.1	3,570.4	3,569.1	5.2	3.9	60.47	-1,827.4	-1,794.6	2,511.0	2,502.0	8.98	279.477	
3,700.0	3,694.5	3,671.0	3,669.7	5.2	3.9	60.65	-1,829.3	-1,794.7	2,507.3	2,498.2	9.06	276.858	
3,800.0	3,794.0	3,765.6	3,764.3	5.2	4.0	60.83	-1,831.1	-1,795.1	2,503.7	2,494.6	9.13	274.246	
3,900.0	3,893.4	3,858.3	3,857.0	5.2	4.0	61.00	-1,832.8	-1,795.7	2,500.4	2,491.2	9.21	271.568	
4,000.0	3,992.9	3,955.2	3,953.9	5.3	4.1	61.19	-1,834.7	-1,796.6	2,497.3	2,488.0	9.29	268.745	
4,100.0	4,092.3	4,053.9	4,052.6	5.3	4.1	61.38	-1,836.5	-1,797.4	2,494.0	2,484.6	9.38	265.802	
4,200.0	4,191.8	4,151.3	4,149.9	5.3	4.2	61.57	-1,838.4	-1,798.3	2,491.1	2,481.6	9.48	262.823	
4,300.0	4,291.2	4,251.2	4,249.8	5.3	4.3	61.76	-1,840.5	-1,799.2	2,488.2	2,478.6	9.58	259.740	
4,400.0	4,390.7	4,348.7	4,347.3	5.4	4.3	61.94	-1,842.5	-1,800.1	2,485.3	2,475.7	9.68	256.647	
4,500.0	4,490.1	4,448.1	4,446.7	5.4	4.4	62.13	-1,844.7	-1,800.9	2,482.5	2,472.7	9.79	253.495	
4,600.0	4,589.6	4,550.6	4,549.1	5.5	4.5	62.32	-1,846.9	-1,801.7	2,479.6	2,469.7	9.91	250.241	
4,700.0	4,689.0	4,646.5	4,645.0	5.5	4.5	62.50	-1,849.0	-1,802.5	2,476.9	2,466.8	10.02	247.100	
4,800.0	4,788.5	4,739.8	4,738.3	5.6	4.6	62.68	-1,851.3	-1,803.4	2,474.4	2,464.2	10.14	244.007	
4,900.0	4,887.9	4,838.8	4,837.3	5.6	4.7	62.87	-1,853.8	-1,804.5	2,472.0	2,461.7	10.27	240.799	

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

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Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7405-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,987.4	4,945.2	4,943.6	5.7	4.8	63.08	-1,856.0	-1,805.8	2,469.5	2,459.1	10.40	237.395	
5,100.0	5,086.9	5,050.0	5,048.4	5.7	4.9	63.30	-1,857.6	-1,807.2	2,466.8	2,456.3	10.54	233.962	
5,200.0	5,186.3	5,143.6	5,142.0	5.8	4.9	63.49	-1,859.1	-1,808.4	2,464.2	2,453.5	10.68	230.765	
5,300.0	5,285.8	5,303.4	5,301.7	5.9	5.0	63.83	-1,860.1	-1,809.1	2,460.1	2,449.2	10.83	227.129	
5,400.0	5,385.2	5,427.4	5,425.7	5.9	5.1	64.11	-1,859.6	-1,808.8	2,455.1	2,444.2	10.92	224.816	
5,500.0	5,484.7	5,551.5	5,549.8	6.0	5.1	64.38	-1,858.2	-1,807.2	2,448.8	2,437.8	11.01	222.402	
5,600.0	5,584.1	5,648.8	5,647.1	6.1	5.1	64.59	-1,857.1	-1,805.2	2,442.0	2,430.9	11.10	220.070	
5,700.0	5,683.6	5,725.0	5,723.3	6.1	5.1	64.75	-1,856.5	-1,804.1	2,435.9	2,424.7	11.18	217.930	
5,800.0	5,783.0	5,819.5	5,817.8	6.2	5.2	64.95	-1,856.2	-1,803.0	2,430.3	2,419.0	11.27	215.596	
5,900.0	5,882.5	5,938.7	5,936.9	6.3	5.2	65.19	-1,856.0	-1,800.8	2,424.3	2,412.9	11.39	212.885	
6,000.0	5,981.9	6,035.1	6,033.4	6.4	5.3	65.39	-1,855.6	-1,798.9	2,418.1	2,406.6	11.49	210.405	
6,100.0	6,081.4	6,115.4	6,113.6	6.4	5.3	65.54	-1,855.7	-1,797.3	2,412.3	2,400.7	11.59	208.063	
6,200.0	6,180.8	6,185.8	6,184.0	6.5	5.3	65.71	-1,855.4	-1,797.2	2,407.7	2,396.0	11.70	205.828	
6,300.0	6,280.3	6,250.0	6,248.2	6.6	5.4	65.88	-1,855.0	-1,798.3	2,404.3	2,392.5	11.81	203.554	
6,400.0	6,379.7	6,325.0	6,323.2	6.7	5.4	66.09	-1,854.8	-1,800.7	2,402.4	2,390.4	11.94	201.177	
6,500.0	6,479.2	6,444.8	6,442.9	6.8	5.5	66.43	-1,854.4	-1,805.0	2,400.9	2,388.8	12.10	198.355	
6,600.0	6,578.6	6,529.7	6,527.8	6.8	5.5	66.69	-1,853.4	-1,808.0	2,398.8	2,386.6	12.24	195.940	
6,700.0	6,678.1	6,677.4	6,675.4	6.9	5.6	67.12	-1,851.9	-1,812.6	2,396.8	2,384.3	12.43	192.839	
6,800.0	6,777.5	6,766.6	6,764.5	7.0	5.7	67.33	-1,852.2	-1,813.3	2,393.5	2,381.0	12.58	190.309	
6,900.0	6,877.0	6,850.0	6,847.9	7.1	5.8	67.49	-1,853.9	-1,813.5	2,390.9	2,378.1	12.72	187.932	
7,000.0	6,976.4	6,935.6	6,933.5	7.2	5.8	67.67	-1,855.5	-1,814.4	2,388.8	2,375.9	12.88	185.511	
7,100.0	7,075.9	7,078.7	7,076.6	7.3	6.0	67.99	-1,857.4	-1,815.6	2,386.4	2,373.3	13.08	182.391	
7,200.0	7,175.3	7,168.0	7,165.9	7.4	6.0	68.19	-1,857.5	-1,815.7	2,382.7	2,369.5	13.23	180.064	
7,300.0	7,274.8	7,279.2	7,277.1	7.5	6.1	68.47	-1,857.2	-1,816.5	2,379.2	2,365.8	13.41	177.483	
7,400.0	7,374.3	7,355.4	7,353.3	7.6	6.1	68.68	-1,856.7	-1,817.6	2,376.2	2,362.6	13.54	175.532	
7,500.0	7,473.7	7,417.6	7,415.5	7.7	6.2	68.84	-1,856.9	-1,818.9	2,374.3	2,360.7	13.65	173.912	
7,539.7	7,513.2	7,436.0	7,433.8	7.7	6.2	68.87	-1,857.4	-1,819.3	2,374.2	2,360.5	13.68	173.515	
7,580.8	7,554.1	7,447.7	7,445.6	7.7	6.2	68.90	-1,858.0	-1,819.6	2,374.4	2,360.7	13.74	172.802	
7,600.0	7,573.1	7,454.4	7,452.2	7.7	6.2	50.62	-1,858.4	-1,819.7	2,374.3	2,360.6	13.77	172.485	
7,625.0	7,597.9	7,468.0	7,465.8	7.7	6.3	34.89	-1,859.5	-1,819.9	2,373.2	2,359.4	13.81	171.794	
7,650.0	7,622.5	7,468.0	7,465.8	7.7	6.3	25.41	-1,859.5	-1,819.9	2,371.0	2,357.1	13.83	171.411	
7,675.0	7,646.9	7,468.0	7,465.8	7.7	6.3	19.38	-1,859.5	-1,819.9	2,367.7	2,353.8	13.86	170.889	
7,700.0	7,670.9	7,486.4	7,484.1	7.7	6.3	15.28	-1,861.6	-1,820.1	2,363.1	2,349.2	13.95	169.430	
7,725.0	7,694.7	7,500.0	7,497.5	7.8	6.4	12.32	-1,863.5	-1,820.3	2,357.6	2,343.5	14.03	168.071	
7,750.0	7,718.0	7,500.0	7,497.5	7.8	6.4	10.11	-1,863.5	-1,820.3	2,350.9	2,336.8	14.06	167.187	
7,775.0	7,740.8	7,500.0	7,497.5	7.8	6.4	8.38	-1,863.5	-1,820.3	2,343.2	2,329.1	14.10	166.180	
7,800.0	7,763.0	7,513.7	7,511.0	7.8	6.4	6.95	-1,865.9	-1,820.3	2,334.3	2,320.1	14.17	164.761	
7,825.0	7,784.7	7,531.0	7,527.9	7.8	6.5	5.74	-1,869.5	-1,820.4	2,324.6	2,310.3	14.25	163.184	
7,850.0	7,805.7	7,531.0	7,527.9	7.9	6.5	4.75	-1,869.5	-1,820.4	2,313.6	2,299.3	14.29	161.864	
7,875.0	7,825.9	7,531.0	7,527.9	7.9	6.5	3.88	-1,869.5	-1,820.4	2,301.7	2,287.4	14.35	160.444	
7,900.0	7,845.4	7,531.0	7,527.9	7.9	6.5	3.10	-1,869.5	-1,820.4	2,288.9	2,274.5	14.40	158.931	
7,925.0	7,864.0	7,543.2	7,539.8	8.0	6.6	2.34	-1,872.3	-1,820.5	2,275.1	2,260.6	14.47	157.214	
7,950.0	7,881.7	7,548.8	7,545.2	8.0	6.6	1.64	-1,873.7	-1,820.5	2,260.3	2,245.8	14.54	155.496	
7,975.0	7,898.5	7,562.0	7,557.9	8.1	6.6	0.91	-1,877.3	-1,820.6	2,244.7	2,230.1	14.61	153.657	
8,000.0	7,914.4	7,562.0	7,557.9	8.1	6.6	0.27	-1,877.3	-1,820.6	2,228.2	2,213.5	14.67	151.867	
8,025.0	7,929.2	7,562.0	7,557.9	8.1	6.6	-0.37	-1,877.3	-1,820.6	2,210.8	2,196.1	14.74	150.024	
8,050.0	7,942.9	7,572.8	7,568.3	8.2	6.7	-1.13	-1,880.4	-1,820.6	2,192.6	2,177.8	14.81	148.098	
8,075.0	7,955.5	7,579.7	7,574.9	8.2	6.7	-1.90	-1,882.4	-1,820.6	2,173.6	2,158.7	14.87	146.161	
8,100.0	7,967.0	7,594.0	7,588.4	8.3	6.7	-2.86	-1,886.9	-1,820.6	2,153.9	2,139.0	14.94	144.188	
8,125.0	7,977.3	7,594.0	7,588.4	8.3	6.7	-3.72	-1,886.9	-1,820.6	2,133.4	2,118.4	15.00	142.239	
8,150.0	7,986.4	7,594.0	7,588.4	8.4	6.7	-4.70	-1,886.9	-1,820.6	2,112.3	2,097.3	15.06	140.280	
8,175.0	7,994.3	7,594.0	7,588.4	8.5	6.7	-5.83	-1,886.9	-1,820.6	2,090.6	2,075.5	15.11	138.320	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7405-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,200.0	8,001.0	7,606.3	7,600.1	8.5	6.8	-7.49	-1,891.0	-1,820.6	2,068.3	2,053.2	15.17	136.386	
8,225.0	8,006.3	7,610.1	7,603.6	8.6	6.8	-9.31	-1,892.3	-1,820.5	2,045.5	2,030.3	15.21	134.462	
8,250.0	8,010.4	7,613.4	7,606.7	8.7	6.8	-11.61	-1,893.4	-1,820.5	2,022.3	2,007.0	15.26	132.562	
8,275.0	8,013.3	7,616.3	7,609.4	8.8	6.8	-14.62	-1,894.4	-1,820.5	1,998.6	1,983.3	15.29	130.691	
8,300.0	8,014.8	7,626.0	7,618.5	8.9	6.8	-19.22	-1,897.9	-1,820.4	1,974.6	1,959.3	15.32	128.884	
8,320.6	8,015.1	7,626.0	7,618.5	9.0	6.8	-23.89	-1,897.9	-1,820.4	1,954.6	1,939.3	15.34	127.391	
8,400.0	8,014.4	7,626.0	7,618.5	9.5	6.8	-29.89	-1,897.9	-1,820.4	1,877.3	1,861.9	15.40	121.874	
8,500.0	8,013.6	7,626.0	7,618.5	10.1	6.8	-36.22	-1,897.9	-1,820.4	1,780.7	1,765.2	15.49	114.929	
8,600.0	8,012.7	7,637.1	7,628.8	10.8	6.8	-42.43	-1,902.0	-1,820.3	1,684.9	1,669.3	15.60	108.017	
8,700.0	8,011.9	7,642.5	7,633.7	11.5	6.9	-47.06	-1,904.1	-1,820.3	1,590.4	1,574.6	15.74	101.027	
8,800.0	8,011.1	7,647.5	7,638.3	12.4	6.9	-50.83	-1,906.1	-1,820.2	1,497.4	1,481.5	15.94	93.962	
8,900.0	8,010.2	7,657.0	7,647.0	13.2	6.9	-54.33	-1,910.0	-1,820.1	1,406.6	1,390.4	16.20	86.847	
9,000.0	8,009.4	7,657.0	7,647.0	14.1	6.9	-56.45	-1,910.0	-1,820.1	1,318.3	1,301.8	16.58	79.525	
9,100.0	8,008.5	7,657.0	7,647.0	15.0	6.9	-58.18	-1,910.0	-1,820.1	1,233.4	1,216.3	17.10	72.112	
9,200.0	8,007.7	7,657.0	7,647.0	15.9	6.9	-59.58	-1,910.0	-1,820.1	1,152.7	1,134.9	17.82	64.689	
9,300.0	8,006.8	7,666.6	7,655.8	16.8	6.9	-61.45	-1,914.0	-1,820.0	1,077.1	1,058.4	18.74	57.482	
9,400.0	8,006.0	7,668.9	7,657.8	17.7	6.9	-62.50	-1,915.0	-1,819.9	1,008.1	988.2	19.94	50.550	
9,500.0	8,005.1	7,670.5	7,659.2	18.7	6.9	-63.30	-1,915.6	-1,819.9	947.2	925.7	21.43	44.204	
9,600.0	8,004.3	7,671.4	7,660.1	19.6	6.9	-63.88	-1,916.1	-1,819.9	896.0	872.8	23.17	38.677	
9,700.0	8,003.5	7,671.7	7,660.4	20.6	6.9	-64.26	-1,916.2	-1,819.9	856.4	831.4	25.09	34.141	
9,800.0	8,002.7	7,671.3	7,660.0	21.6	6.9	-64.45	-1,916.0	-1,819.9	830.2	803.2	27.06	30.681	
9,815.2	8,002.5	7,671.2	7,659.9	21.7	6.9	-64.47	-1,916.0	-1,819.9	827.5	800.1	27.35	30.251	
9,900.0	8,001.8	7,670.5	7,659.3	22.5	6.9	-64.42	-1,915.7	-1,819.9	817.5	788.6	28.93	28.255	
9,954.4	8,001.4	7,670.1	7,658.9	23.1	6.9	-64.39	-1,915.5	-1,819.9	815.7	785.8	29.86	27.314 CC, ES	
10,000.0	8,001.0	7,669.7	7,658.6	23.5	6.9	-64.36	-1,915.3	-1,819.9	817.0	786.4	30.58	26.720	
10,100.0	8,000.2	7,668.9	7,657.9	24.5	6.9	-64.31	-1,915.0	-1,819.9	828.6	796.7	31.89	25.981	
10,200.0	7,999.4	7,668.2	7,657.1	25.5	6.9	-64.25	-1,914.7	-1,819.9	851.9	819.0	32.85	25.934 SF	
10,300.0	7,998.6	7,667.4	7,656.4	26.5	6.9	-64.20	-1,914.3	-1,819.9	885.9	852.4	33.45	26.480	
10,400.0	7,997.8	7,666.6	7,655.7	27.6	6.9	-64.14	-1,914.0	-1,820.0	929.4	895.7	33.76	27.529	
10,500.0	7,996.9	7,657.0	7,647.0	28.6	6.9	-63.47	-1,910.0	-1,820.1	981.4	947.6	33.83	29.013	
10,600.0	7,996.1	7,657.0	7,647.0	29.6	6.9	-63.47	-1,910.0	-1,820.1	1,040.3	1,006.6	33.73	30.843	
10,700.0	7,995.3	7,657.0	7,647.0	30.7	6.9	-63.47	-1,910.0	-1,820.1	1,105.1	1,071.6	33.52	32.969	
10,800.0	7,994.5	7,657.0	7,647.0	31.7	6.9	-63.47	-1,910.0	-1,820.1	1,174.9	1,141.6	33.24	35.342	
10,900.0	7,993.7	7,657.0	7,647.0	32.8	6.9	-63.47	-1,910.0	-1,820.1	1,248.8	1,215.8	32.93	37.923	
11,000.0	7,992.8	7,657.0	7,647.0	33.8	6.9	-63.47	-1,910.0	-1,820.1	1,326.1	1,293.5	32.60	40.676	
11,100.0	7,992.0	7,657.0	7,647.0	34.9	6.9	-63.47	-1,910.0	-1,820.1	1,406.3	1,374.0	32.27	43.575	
11,200.0	7,991.2	7,657.0	7,647.0	35.9	6.9	-63.47	-1,910.0	-1,820.1	1,488.8	1,456.9	31.95	46.595	
11,300.0	7,990.4	7,657.0	7,647.0	37.0	6.9	-63.47	-1,910.0	-1,820.1	1,573.4	1,541.8	31.65	49.716	
11,400.0	7,989.6	7,657.0	7,647.0	38.1	6.9	-63.47	-1,910.0	-1,820.1	1,659.7	1,628.4	31.36	52.923	
11,500.0	7,988.8	7,657.0	7,647.0	39.1	6.9	-63.47	-1,910.0	-1,820.1	1,747.5	1,716.4	31.09	56.201	
11,600.0	7,987.9	7,657.0	7,647.0	40.2	6.9	-63.47	-1,910.0	-1,820.1	1,836.5	1,805.7	30.85	59.539	
11,700.0	7,987.1	7,657.0	7,647.0	41.3	6.9	-63.47	-1,910.0	-1,820.1	1,926.6	1,896.0	30.62	62.926	
11,800.0	7,986.3	7,657.0	7,647.0	42.4	6.9	-63.47	-1,910.0	-1,820.1	2,017.7	1,987.3	30.41	66.354	
11,900.0	7,985.5	7,657.0	7,647.0	43.4	6.9	-63.47	-1,910.0	-1,820.1	2,109.5	2,079.3	30.22	69.815	
12,000.0	7,984.7	7,657.0	7,647.0	44.5	6.9	-63.47	-1,910.0	-1,820.1	2,202.1	2,172.0	30.04	73.303	
12,100.0	7,983.9	7,657.0	7,647.0	45.6	6.9	-63.47	-1,910.0	-1,820.1	2,295.3	2,265.4	29.88	76.813	
12,200.0	7,983.0	7,657.0	7,647.0	46.7	6.9	-63.47	-1,910.0	-1,820.1	2,389.0	2,359.3	29.74	80.340	
12,300.0	7,982.2	7,657.0	7,647.0	47.8	6.9	-63.47	-1,910.0	-1,820.1	2,483.2	2,453.6	29.60	83.878	
12,400.0	7,981.4	7,657.0	7,647.0	48.9	6.9	-63.47	-1,910.0	-1,820.1	2,577.9	2,548.4	29.49	87.426	
12,500.0	7,980.6	7,657.0	7,647.0	50.0	6.9	-63.47	-1,910.0	-1,820.1	2,672.9	2,643.5	29.38	90.978	
12,600.0	7,979.8	7,657.0	7,647.0	51.0	6.9	-63.47	-1,910.0	-1,820.1	2,768.3	2,739.0	29.28	94.533	
12,700.0	7,979.0	7,657.0	7,647.0	52.1	6.9	-63.47	-1,910.0	-1,820.1	2,864.0	2,834.8	29.20	98.087	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 20 FED COM #5H - OWB - ACTUAL WELLP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7405-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.0	7,978.1	7,657.0	7,647.0	53.2	6.9	-63.47	-1,910.0	-1,820.1	2,960.0	2,930.9	29.12	101.638	
12,900.0	7,977.3	7,657.0	7,647.0	54.3	6.9	-63.47	-1,910.0	-1,820.1	3,056.3	3,027.2	29.06	105.184	
13,000.0	7,976.5	7,657.0	7,647.0	55.4	6.9	-63.47	-1,910.0	-1,820.1	3,152.8	3,123.8	29.00	108.723	
13,100.0	7,975.7	7,657.0	7,647.0	56.5	6.9	-63.47	-1,910.0	-1,820.1	3,249.4	3,220.5	28.95	112.253	
13,171.4	7,975.1	7,657.0	7,647.0	57.3	6.9	-63.47	-1,910.0	-1,820.1	3,318.6	3,289.7	28.92	114.768	
13,200.0	7,974.9	7,657.0	7,647.0	57.6	6.9	-62.41	-1,910.0	-1,820.1	3,346.4	3,317.5	28.90	115.772	
13,245.7	7,974.5	7,657.0	7,647.0	58.1	6.9	-60.52	-1,910.0	-1,820.1	3,390.9	3,362.0	28.89	117.370	
13,300.0	7,974.0	7,657.0	7,647.0	58.7	6.9	-60.52	-1,910.0	-1,820.1	3,443.9	3,415.0	28.88	119.261	
13,400.0	7,973.2	7,646.2	7,637.1	59.8	6.9	-59.69	-1,905.6	-1,820.2	3,541.6	3,512.7	28.82	122.891	
13,500.0	7,972.4	7,645.3	7,636.3	60.9	6.9	-59.62	-1,905.2	-1,820.2	3,639.4	3,610.6	28.80	126.367	
13,600.0	7,971.6	7,644.4	7,635.5	62.0	6.9	-59.56	-1,904.9	-1,820.2	3,737.3	3,708.6	28.79	129.828	
13,700.0	7,970.8	7,643.5	7,634.7	63.1	6.9	-59.49	-1,904.5	-1,820.3	3,835.4	3,806.6	28.78	133.272	
13,800.0	7,969.9	7,642.7	7,633.9	64.2	6.9	-59.42	-1,904.2	-1,820.3	3,933.6	3,904.8	28.78	136.698	
13,900.0	7,969.1	7,641.8	7,633.1	65.3	6.9	-59.36	-1,903.9	-1,820.3	4,031.8	4,003.0	28.78	140.106	
14,000.0	7,968.3	7,641.0	7,632.4	66.4	6.9	-59.30	-1,903.5	-1,820.3	4,130.1	4,101.4	28.78	143.495	
14,100.0	7,967.5	7,640.2	7,631.6	67.5	6.9	-59.23	-1,903.2	-1,820.3	4,228.5	4,199.7	28.79	146.864	
14,200.0	7,966.7	7,639.4	7,630.9	68.6	6.8	-59.17	-1,902.9	-1,820.3	4,327.0	4,298.2	28.81	150.214	
14,300.0	7,965.8	7,638.6	7,630.1	69.7	6.8	-59.11	-1,902.6	-1,820.3	4,425.6	4,396.7	28.82	153.542	
14,400.0	7,965.0	7,637.8	7,629.4	70.8	6.8	-59.05	-1,902.3	-1,820.3	4,524.2	4,495.3	28.84	156.850	
14,500.0	7,964.2	7,637.0	7,628.7	71.9	6.8	-58.99	-1,902.0	-1,820.3	4,622.8	4,594.0	28.87	160.136	
14,600.0	7,963.4	7,626.0	7,618.5	73.0	6.8	-58.16	-1,897.9	-1,820.4	4,721.6	4,692.7	28.87	163.565	
14,700.0	7,962.6	7,626.0	7,618.5	74.1	6.8	-58.16	-1,897.9	-1,820.4	4,820.4	4,791.5	28.90	166.796	
14,800.0	7,961.7	7,626.0	7,618.5	75.2	6.8	-58.16	-1,897.9	-1,820.4	4,919.2	4,890.3	28.94	170.005	
14,900.0	7,960.9	7,626.0	7,618.5	76.3	6.8	-58.16	-1,897.9	-1,820.4	5,018.1	4,989.1	28.97	173.191	
15,000.0	7,960.1	7,626.0	7,618.5	77.4	6.8	-58.16	-1,897.9	-1,820.4	5,117.0	5,088.0	29.02	176.353	
15,100.0	7,959.3	7,626.0	7,618.5	78.5	6.8	-58.16	-1,897.9	-1,820.4	5,215.9	5,186.9	29.06	179.491	
15,200.0	7,958.5	7,626.0	7,618.5	79.6	6.8	-58.16	-1,897.9	-1,820.4	5,314.9	5,285.8	29.11	182.606	
15,300.0	7,957.6	7,626.0	7,618.5	80.7	6.8	-58.16	-1,897.9	-1,820.4	5,414.0	5,384.8	29.15	185.697	
15,400.0	7,956.8	7,626.0	7,618.5	81.8	6.8	-58.16	-1,897.9	-1,820.4	5,513.0	5,483.8	29.21	188.763	
15,500.0	7,956.0	7,626.0	7,618.5	82.9	6.8	-58.16	-1,897.9	-1,820.4	5,612.1	5,582.9	29.26	191.806	
15,600.0	7,955.2	7,626.0	7,618.5	84.0	6.8	-58.16	-1,897.9	-1,820.4	5,711.2	5,681.9	29.31	194.824	
15,700.0	7,954.4	7,626.0	7,618.5	85.1	6.8	-58.16	-1,897.9	-1,820.4	5,810.4	5,781.0	29.37	197.818	
15,800.0	7,953.5	7,626.0	7,618.5	86.2	6.8	-58.16	-1,897.9	-1,820.4	5,909.6	5,880.2	29.43	200.787	
15,900.0	7,952.7	7,626.0	7,618.5	87.3	6.8	-58.16	-1,897.9	-1,820.4	6,008.8	5,979.3	29.49	203.732	
16,000.0	7,951.9	7,626.0	7,618.5	88.4	6.8	-58.16	-1,897.9	-1,820.4	6,108.1	6,078.5	29.56	206.652	
16,100.0	7,951.1	7,626.0	7,618.5	89.5	6.8	-58.16	-1,897.9	-1,820.4	6,207.3	6,177.7	29.62	209.548	
16,200.0	7,950.3	7,626.0	7,618.5	90.6	6.8	-58.16	-1,897.9	-1,820.4	6,306.6	6,276.9	29.69	212.419	
16,300.0	7,949.4	7,626.0	7,618.5	91.8	6.8	-58.16	-1,897.9	-1,820.4	6,405.9	6,376.2	29.76	215.265	
16,400.0	7,948.6	7,626.0	7,618.5	92.9	6.8	-58.16	-1,897.9	-1,820.4	6,505.2	6,475.4	29.83	218.087	
16,500.0	7,947.8	7,626.0	7,618.5	94.0	6.8	-58.16	-1,897.9	-1,820.4	6,604.6	6,574.7	29.90	220.885	
16,600.0	7,947.0	7,626.0	7,618.5	95.1	6.8	-58.16	-1,897.9	-1,820.4	6,704.0	6,674.0	29.97	223.658	
16,700.0	7,946.2	7,626.0	7,618.5	96.2	6.8	-58.16	-1,897.9	-1,820.4	6,803.4	6,773.3	30.05	226.406	
16,800.0	7,945.3	7,626.0	7,618.5	97.3	6.8	-58.16	-1,897.9	-1,820.4	6,902.8	6,872.6	30.13	229.131	
16,900.0	7,944.5	7,626.0	7,618.5	98.4	6.8	-58.16	-1,897.9	-1,820.4	7,002.2	6,972.0	30.20	231.830	
17,000.0	7,943.7	7,626.0	7,618.5	99.5	6.8	-58.16	-1,897.9	-1,820.4	7,101.6	7,071.3	30.28	234.506	
17,100.0	7,942.9	7,626.0	7,618.5	100.6	6.8	-58.16	-1,897.9	-1,820.4	7,201.1	7,170.7	30.36	237.158	
17,200.0	7,942.1	7,626.0	7,618.5	101.7	6.8	-58.16	-1,897.9	-1,820.4	7,300.6	7,270.1	30.45	239.785	
17,300.0	7,941.2	7,626.0	7,618.5	102.8	6.8	-58.16	-1,897.9	-1,820.4	7,400.0	7,369.5	30.53	242.389	
17,400.0	7,940.4	7,626.0	7,618.5	103.9	6.8	-58.16	-1,897.9	-1,820.4	7,499.5	7,468.9	30.61	244.969	
17,500.0	7,939.6	7,626.0	7,618.5	105.1	6.8	-58.16	-1,897.9	-1,820.4	7,599.0	7,568.3	30.70	247.525	
17,600.0	7,938.8	7,626.0	7,618.5	106.2	6.8	-58.16	-1,897.9	-1,820.4	7,698.6	7,667.8	30.79	250.057	
17,700.0	7,938.0	7,626.0	7,618.5	107.3	6.8	-58.16	-1,897.9	-1,820.4	7,798.1	7,767.2	30.88	252.567	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 20 FED COM #5H - OWB - ACTUAL WELLP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7405-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,800.0	7,937.1	7,626.0	7,618.5	108.4	6.8	-58.16	-1,897.9	-1,820.4	7,897.7	7,866.7	30.96	255.052		
17,900.0	7,936.3	7,614.5	7,607.7	109.5	6.8	-57.29	-1,893.8	-1,820.5	7,997.2	7,966.2	31.03	257.722		
17,996.2	7,935.5	7,613.9	7,607.2	110.6	6.8	-57.25	-1,893.6	-1,820.5	8,093.0	8,061.9	31.12	260.080		

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	4.2	3.0	172.99	-6,553.1	805.8	6,602.5				
100.0	100.0	70.3	70.3	4.2	3.0	172.99	-6,553.2	805.6	6,602.5	6,595.3	7.24	911.577	
200.0	200.0	161.9	161.9	4.2	3.0	173.00	-6,553.5	804.8	6,602.7	6,595.5	7.25	911.068	
300.0	300.0	269.0	269.0	4.3	3.0	173.01	-6,553.8	803.6	6,602.9	6,595.7	7.26	909.787	
400.0	400.0	358.6	358.6	4.3	3.0	173.02	-6,554.0	802.9	6,603.1	6,595.8	7.27	907.871	
500.0	500.0	436.8	436.8	4.3	3.0	173.02	-6,554.5	802.5	6,603.6	6,596.3	7.29	905.298	
600.0	600.0	528.3	528.3	4.3	3.1	173.03	-6,555.3	801.9	6,604.3	6,597.0	7.32	901.763	
700.0	700.0	645.1	645.0	4.3	3.1	173.03	-6,556.1	801.2	6,605.0	6,597.6	7.36	896.960	
800.0	800.0	756.3	756.3	4.4	3.1	173.04	-6,556.7	800.4	6,605.4	6,598.0	7.41	891.550	
900.0	900.0	875.0	875.0	4.4	3.2	173.04	-6,556.9	800.0	6,605.6	6,598.1	7.46	885.621	
1,000.0	1,000.0	987.7	987.6	4.4	3.2	173.04	-6,556.9	799.9	6,605.6	6,598.1	7.51	879.808	
1,040.1	1,040.1	1,018.1	1,018.1	4.4	3.2	173.04	-6,556.9	799.9	6,605.5	6,598.0	7.53	877.715	
1,100.0	1,100.0	1,058.1	1,058.1	4.5	3.2	173.05	-6,557.0	799.8	6,605.6	6,598.1	7.56	873.935	
1,200.0	1,200.0	1,155.0	1,155.0	4.5	3.3	173.05	-6,557.4	799.7	6,606.0	6,598.4	7.63	865.920	
1,300.0	1,300.0	1,253.2	1,253.1	4.5	3.3	173.05	-6,557.8	799.1	6,606.3	6,598.6	7.70	857.981	
1,400.0	1,400.0	1,369.2	1,369.2	4.6	3.4	173.06	-6,558.1	798.4	6,606.5	6,598.7	7.78	849.495	
1,500.0	1,500.0	1,475.0	1,475.0	4.6	3.4	173.07	-6,558.3	797.6	6,606.6	6,598.7	7.85	841.257	
1,600.0	1,600.0	14,352.0	8,064.9	4.7	51.4	94.61	-47.3	587.0	6,513.6	6,457.5	56.06	116.192	
1,700.0	1,700.0	14,352.0	8,064.9	4.8	51.4	94.61	-47.3	587.0	6,414.0	6,357.8	56.17	114.181	
1,800.0	1,800.0	14,352.0	8,064.9	4.8	51.4	94.61	-47.3	587.0	6,314.4	6,258.1	56.29	112.176	
1,900.0	1,900.0	14,352.0	8,064.9	4.9	51.4	94.61	-47.3	587.0	6,214.8	6,158.4	56.41	110.177	
2,000.0	2,000.0	14,352.0	8,064.9	5.0	51.4	94.61	-47.3	587.0	6,115.3	6,058.8	56.53	108.185	
2,100.0	2,100.0	14,352.0	8,064.9	5.0	51.4	94.61	-47.3	587.0	6,015.8	5,959.1	56.65	106.200	
2,200.0	2,200.0	14,352.0	8,064.9	5.1	51.4	94.61	-47.3	587.0	5,916.3	5,859.5	56.77	104.221	
2,300.0	2,300.0	14,352.0	8,064.9	5.2	51.4	94.61	-47.3	587.0	5,816.8	5,759.9	56.89	102.248	
2,400.0	2,400.0	14,352.0	8,064.9	5.2	51.4	94.61	-47.3	587.0	5,717.3	5,660.3	57.01	100.283	
2,500.0	2,500.0	14,352.0	8,064.9	5.3	51.4	94.61	-47.3	587.0	5,617.8	5,560.7	57.14	98.324	
2,600.0	2,600.0	14,352.0	8,064.9	5.3	51.4	-90.56	-47.3	587.0	5,518.4	5,461.1	57.26	96.370	
2,700.0	2,699.8	14,352.0	8,064.9	5.3	51.4	-109.28	-47.3	587.0	5,418.9	5,361.5	57.39	94.423	
2,800.0	2,799.5	14,352.0	8,064.9	5.3	51.4	-124.35	-47.3	587.0	5,319.6	5,262.1	57.52	92.484	
2,900.0	2,898.9	14,352.0	8,064.9	5.3	51.4	-124.35	-47.3	587.0	5,220.4	5,162.8	57.65	90.555	
3,000.0	2,998.4	14,352.0	8,064.9	5.3	51.4	-124.35	-47.3	587.0	5,121.3	5,063.5	57.78	88.632	
3,100.0	3,097.8	14,352.0	8,064.9	5.2	51.4	-124.35	-47.3	587.0	5,022.2	4,964.3	57.91	86.717	
3,200.0	3,197.3	14,352.0	8,064.9	5.2	51.4	-124.35	-47.3	587.0	4,923.1	4,865.1	58.05	84.810	
3,300.0	3,296.7	14,352.0	8,064.9	5.2	51.4	-124.35	-47.3	587.0	4,824.1	4,765.9	58.18	82.910	
3,400.0	3,396.2	14,352.0	8,064.9	5.2	51.4	-124.35	-47.3	587.0	4,725.1	4,666.8	58.32	81.018	
3,500.0	3,495.6	14,319.9	8,064.7	5.2	51.1	-122.48	-79.4	587.1	4,625.8	4,567.6	58.22	79.452	
3,600.0	3,595.1	14,316.0	8,064.7	5.2	51.1	-122.24	-83.4	587.2	4,526.9	4,468.5	58.33	77.605	
3,700.0	3,694.5	14,311.9	8,064.7	5.2	51.1	-121.99	-87.4	587.2	4,427.9	4,369.5	58.44	75.764	
3,800.0	3,794.0	14,307.7	8,064.8	5.2	51.0	-121.73	-91.6	587.2	4,329.0	4,270.4	58.56	73.930	
3,900.0	3,893.4	14,303.4	8,064.8	5.2	51.0	-121.46	-95.9	587.3	4,230.1	4,171.5	58.67	72.102	
4,000.0	3,992.9	14,299.1	8,064.8	5.3	51.0	-121.18	-100.3	587.3	4,131.3	4,072.5	58.78	70.282	
4,100.0	4,092.3	14,294.5	8,064.9	5.3	50.9	-120.89	-104.8	587.4	4,032.5	3,973.6	58.90	68.470	
4,200.0	4,191.8	14,289.9	8,064.9	5.3	50.9	-120.59	-109.4	587.5	3,933.8	3,874.8	59.01	66.664	
4,300.0	4,291.2	14,285.1	8,064.9	5.3	50.9	-120.28	-114.2	587.5	3,835.1	3,776.0	59.12	64.866	
4,400.0	4,390.7	14,280.0	8,065.4	5.4	50.7	-118.44	-141.3	588.0	3,736.7	3,677.6	59.08	63.251	
4,500.0	4,490.1	14,258.0	8,065.4	5.4	50.7	-118.44	-141.3	588.0	3,638.0	3,578.8	59.23	61.423	
4,600.0	4,589.6	14,248.1	8,065.5	5.5	50.6	-117.74	-151.2	588.2	3,539.5	3,480.2	59.31	59.676	
4,700.0	4,689.0	14,236.9	8,065.6	5.5	50.5	-116.93	-162.4	588.4	3,441.0	3,381.6	59.39	57.942	
4,800.0	4,788.5	14,268.0	8,065.2	5.6	50.7	-119.14	-131.3	587.8	3,342.7	3,282.9	59.76	55.936	
4,900.0	4,887.9	14,223.2	8,066.0	5.6	50.4	-115.92	-176.1	588.7	3,244.3	3,184.7	59.60	54.433	
5,000.0	4,987.4	14,184.9	8,066.3	5.7	50.1	-112.90	-214.4	589.4	3,146.0	3,086.5	59.49	52.884	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	14,157.1	8,066.4	5.7	49.9	-110.58	-242.2	589.8	3,047.6	2,988.1	59.45	51.265	
5,200.0	5,186.3	14,140.0	8,066.4	5.8	49.8	-109.08	-259.3	590.0	2,949.3	2,889.8	59.49	49.580	
5,300.0	5,285.8	14,123.6	8,066.3	5.9	49.7	-107.59	-275.7	590.2	2,851.0	2,791.4	59.53	47.893	
5,400.0	5,385.2	14,108.0	8,066.2	5.9	49.5	-106.12	-291.3	590.4	2,752.8	2,693.2	59.58	46.206	
5,500.0	5,484.7	14,092.9	8,066.1	6.0	49.4	-104.68	-306.4	590.6	2,654.6	2,595.0	59.63	44.519	
5,600.0	5,584.1	14,078.5	8,066.0	6.1	49.3	-103.25	-320.8	590.7	2,556.6	2,496.9	59.69	42.834	
5,700.0	5,683.6	14,070.0	8,065.9	6.1	49.3	-102.40	-329.3	590.8	2,458.6	2,398.8	59.79	41.123	
5,800.0	5,783.0	14,070.0	8,065.9	6.2	49.3	-102.40	-329.3	590.8	2,360.9	2,300.9	59.95	39.380	
5,900.0	5,882.5	14,070.0	8,065.9	6.3	49.3	-102.40	-329.3	590.8	2,263.3	2,203.2	60.11	37.650	
6,000.0	5,981.9	14,070.0	8,065.9	6.4	49.3	-102.40	-329.3	590.8	2,165.9	2,105.6	60.27	35.935	
6,100.0	6,081.4	14,046.6	8,065.7	6.4	49.1	-99.98	-352.6	591.0	2,068.6	2,008.3	60.26	34.329	
6,200.0	6,180.8	14,040.7	8,065.7	6.5	49.0	-99.35	-358.6	591.1	1,971.6	1,911.3	60.37	32.660	
6,300.0	6,280.3	14,034.6	8,065.7	6.6	49.0	-98.69	-364.7	591.1	1,875.0	1,814.5	60.47	31.006	
6,400.0	6,379.7	14,028.1	8,065.7	6.7	48.9	-98.00	-371.1	591.2	1,778.6	1,718.1	60.57	29.366	
6,500.0	6,479.2	14,021.4	8,065.7	6.8	48.9	-97.27	-377.9	591.3	1,682.7	1,622.0	60.65	27.742	
6,600.0	6,578.6	14,014.4	8,065.7	6.8	48.8	-96.50	-384.9	591.3	1,587.2	1,526.5	60.73	26.135	
6,700.0	6,678.1	14,007.1	8,065.8	6.9	48.8	-95.68	-392.2	591.4	1,492.2	1,431.4	60.79	24.548	
6,800.0	6,777.5	13,999.4	8,065.9	7.0	48.7	-94.82	-399.9	591.5	1,397.9	1,337.1	60.83	22.980	
6,900.0	6,877.0	13,991.4	8,066.0	7.1	48.7	-93.91	-407.9	591.5	1,304.4	1,243.5	60.85	21.437	
7,000.0	6,976.4	13,988.7	8,066.0	7.2	48.7	-93.60	-410.6	591.6	1,211.8	1,150.9	60.87	19.907	
7,100.0	7,075.9	13,972.7	8,066.3	7.3	48.5	-91.75	-426.6	591.7	1,120.4	1,059.6	60.78	18.434	
7,200.0	7,175.3	13,957.6	8,066.6	7.4	48.4	-89.98	-441.7	591.9	1,030.4	969.8	60.64	16.992	
7,300.0	7,274.8	13,943.4	8,066.8	7.5	48.3	-88.29	-455.9	592.0	942.3	881.9	60.45	15.589	
7,400.0	7,374.3	13,930.0	8,067.0	7.6	48.2	-86.67	-469.3	592.2	856.6	796.5	60.18	14.235	
7,500.0	7,473.7	13,917.4	8,067.1	7.7	48.1	-85.13	-481.9	592.3	774.2	714.4	59.80	12.946	
7,580.8	7,554.1	13,907.6	8,067.1	7.7	48.0	-83.93	-491.7	592.5	710.7	651.2	59.56	11.932	
7,600.0	7,573.1	13,905.2	8,067.1	7.7	48.0	-102.89	-494.1	592.5	696.4	637.0	59.44	11.717	
7,625.0	7,597.9	13,901.4	8,067.1	7.7	48.0	-119.27	-497.9	592.6	678.9	619.6	59.24	11.460	
7,650.0	7,622.5	13,896.9	8,067.1	7.7	48.0	-129.15	-502.3	592.6	662.7	603.7	59.02	11.229	
7,675.0	7,646.9	13,891.9	8,067.1	7.7	47.9	-135.39	-507.4	592.7	648.1	589.3	58.77	11.027	
7,700.0	7,670.9	13,886.3	8,067.1	7.7	47.9	-139.50	-513.0	592.8	635.0	576.6	58.50	10.856	
7,725.0	7,694.7	13,880.1	8,067.1	7.8	47.8	-142.30	-519.2	592.9	623.8	565.6	58.20	10.718	
7,750.0	7,718.0	13,873.3	8,067.1	7.8	47.8	-144.23	-525.9	593.0	614.5	556.6	57.90	10.613	
7,775.0	7,740.8	13,866.1	8,067.1	7.8	47.7	-145.52	-533.2	593.1	607.1	549.5	57.58	10.543	
7,800.0	7,763.0	13,858.4	8,067.0	7.8	47.7	-146.34	-540.9	593.2	601.8	544.5	57.26	10.509 SF	
7,825.0	7,784.7	13,850.2	8,066.9	7.8	47.6	-146.78	-549.0	593.3	598.6	541.6	56.95	10.511	
7,850.0	7,805.7	13,841.6	8,066.8	7.9	47.6	-146.91	-557.6	593.5	597.5	540.9	56.64	10.548 ES	
7,850.1	7,805.8	13,841.6	8,066.8	7.9	47.6	-146.90	-557.7	593.5	597.5	540.9	56.64	10.549 CC	
7,875.0	7,825.9	13,832.7	8,066.7	7.9	47.5	-146.76	-566.6	593.6	598.6	542.2	56.36	10.621	
7,900.0	7,845.4	13,823.3	8,066.6	7.9	47.4	-146.36	-575.9	593.8	601.7	545.6	56.09	10.727	
7,925.0	7,864.0	13,813.7	8,066.4	8.0	47.3	-145.73	-585.6	594.0	606.9	551.0	55.86	10.865	
7,950.0	7,881.7	13,803.7	8,066.2	8.0	47.3	-144.87	-595.6	594.2	614.0	558.4	55.65	11.034	
7,975.0	7,898.5	13,793.4	8,065.9	8.1	47.2	-143.78	-605.8	594.4	623.0	567.5	55.47	11.231	
8,000.0	7,914.4	13,782.9	8,065.7	8.1	47.1	-142.46	-616.3	594.6	633.7	578.4	55.32	11.456	
8,025.0	7,929.2	13,772.2	8,065.4	8.1	47.0	-140.89	-627.0	594.8	646.0	590.8	55.19	11.704	
8,050.0	7,942.9	13,761.2	8,065.0	8.2	47.0	-139.06	-638.0	595.1	659.8	604.7	55.09	11.976	
8,075.0	7,955.5	13,750.0	8,064.7	8.2	46.9	-136.95	-649.2	595.3	674.9	619.9	55.01	12.268	
8,100.0	7,967.0	13,738.6	8,064.3	8.3	46.8	-134.55	-660.6	595.6	691.2	636.2	54.94	12.580	
8,125.0	7,977.3	13,727.1	8,063.9	8.3	46.7	-131.82	-672.1	595.8	708.5	653.6	54.89	12.908	
8,150.0	7,986.4	13,715.5	8,063.5	8.4	46.6	-128.74	-683.7	596.1	726.8	671.9	54.84	13.253	
8,175.0	7,994.3	13,703.7	8,063.0	8.5	46.5	-125.30	-695.5	596.4	745.9	691.1	54.80	13.611	
8,200.0	8,001.0	13,693.0	8,062.6	8.5	46.4	-121.57	-706.2	596.7	765.6	710.9	54.77	13.978	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,225.0	8,006.3	13,681.4	8,062.1	8.6	46.4	-117.39	-717.8	596.9	786.0	731.2	54.74	14.359	
8,250.0	8,010.4	13,670.7	8,061.7	8.7	46.3	-112.90	-728.4	597.2	806.8	752.1	54.71	14.748	
8,275.0	8,013.3	13,660.1	8,061.4	8.8	46.2	-108.04	-739.0	597.5	828.1	773.4	54.68	15.145	
8,300.0	8,014.8	13,649.5	8,061.1	8.9	46.1	-102.88	-749.6	597.9	849.6	795.0	54.64	15.548	
8,320.6	8,015.1	13,640.9	8,060.9	9.0	46.1	-98.43	-758.2	598.1	867.6	813.0	54.62	15.886	
8,400.0	8,014.4	13,608.9	8,060.3	9.5	45.8	-98.23	-790.2	599.2	937.7	883.2	54.51	17.204	
8,500.0	8,013.6	13,557.6	8,060.1	10.1	45.4	-97.92	-841.4	600.9	1,027.5	973.2	54.31	18.920	
8,600.0	8,012.7	13,502.4	8,060.9	10.8	45.0	-97.74	-896.6	602.1	1,118.3	1,064.2	54.10	20.672	
8,700.0	8,011.9	13,464.7	8,061.5	11.5	44.7	-97.85	-934.3	602.6	1,210.2	1,156.2	54.02	22.403	
8,800.0	8,011.1	13,430.4	8,061.7	12.4	44.5	-98.03	-968.6	603.2	1,303.6	1,249.6	53.97	24.155	
8,900.0	8,010.2	13,399.6	8,061.7	13.2	44.2	-98.30	-999.4	603.8	1,398.1	1,344.2	53.94	25.922	
9,000.0	8,009.4	13,372.4	8,061.4	14.1	44.0	-98.70	-1,026.6	604.3	1,493.8	1,439.9	53.92	27.704	
9,100.0	8,008.5	13,348.5	8,061.0	15.0	43.9	-99.30	-1,050.5	604.8	1,590.4	1,536.5	53.92	29.498	
9,200.0	8,007.7	13,328.1	8,060.6	15.9	43.7	-100.18	-1,070.9	605.3	1,688.0	1,634.0	53.92	31.302	
9,300.0	8,006.8	13,310.8	8,060.1	16.8	43.6	-101.51	-1,088.2	605.7	1,786.2	1,732.2	53.94	33.115	
9,400.0	8,006.0	13,296.5	8,059.8	17.7	43.5	-103.64	-1,102.5	606.0	1,885.0	1,831.1	53.96	34.934	
9,500.0	8,005.1	13,285.5	8,059.6	18.7	43.4	-107.37	-1,113.5	606.2	1,984.3	1,930.3	53.98	36.757	
9,600.0	8,004.3	13,277.9	8,059.5	19.6	43.3	-115.00	-1,121.1	606.4	2,083.9	2,029.9	54.02	38.580	
9,700.0	8,003.5	13,273.6	8,059.4	20.6	43.3	-135.80	-1,125.3	606.5	2,183.8	2,129.8	54.05	40.401	
9,800.0	8,002.7	13,272.8	8,059.4	21.6	43.3	162.63	-1,126.2	606.5	2,283.8	2,229.7	54.09	42.218	
9,815.2	8,002.5	13,272.9	8,059.4	21.7	43.3	152.62	-1,126.0	606.5	2,299.0	2,244.9	54.10	42.494	
9,900.0	8,001.8	13,274.1	8,059.4	22.5	43.3	151.78	-1,124.9	606.5	2,383.7	2,329.6	54.14	44.028	
10,000.0	8,001.0	13,275.4	8,059.4	23.5	43.3	150.80	-1,123.6	606.5	2,483.7	2,429.5	54.19	45.834	
10,100.0	8,000.2	13,276.7	8,059.5	24.5	43.3	149.85	-1,122.2	606.4	2,583.6	2,529.4	54.24	47.634	
10,200.0	7,999.4	13,278.1	8,059.5	25.5	43.3	148.91	-1,120.9	606.4	2,683.6	2,629.3	54.29	49.429	
10,300.0	7,998.6	13,279.4	8,059.5	26.5	43.3	148.00	-1,119.6	606.4	2,783.6	2,729.2	54.35	51.219	
10,400.0	7,997.8	13,280.7	8,059.5	27.6	43.4	147.10	-1,118.2	606.4	2,883.5	2,829.1	54.40	53.003	
10,500.0	7,996.9	13,282.1	8,059.5	28.6	43.4	146.23	-1,116.9	606.3	2,983.5	2,929.0	54.46	54.780	
10,600.0	7,996.1	13,283.4	8,059.6	29.6	43.4	145.37	-1,115.6	606.3	3,083.5	3,029.0	54.52	56.552	
10,700.0	7,995.3	13,284.7	8,059.6	30.7	43.4	144.54	-1,114.2	606.3	3,183.5	3,128.9	54.59	58.318	
10,800.0	7,994.5	13,286.1	8,059.6	31.7	43.4	143.72	-1,112.9	606.2	3,283.4	3,228.8	54.65	60.077	
10,900.0	7,993.7	13,287.4	8,059.6	32.8	43.4	142.92	-1,111.6	606.2	3,383.4	3,328.7	54.72	61.829	
11,000.0	7,992.8	13,288.7	8,059.7	33.8	43.4	142.14	-1,110.3	606.2	3,483.4	3,428.6	54.79	63.575	
11,100.0	7,992.0	13,290.0	8,059.7	34.9	43.4	141.38	-1,108.9	606.1	3,583.4	3,528.5	54.86	65.314	
11,200.0	7,991.2	13,291.4	8,059.7	35.9	43.4	140.63	-1,107.6	606.1	3,683.3	3,628.4	54.94	67.046	
11,300.0	7,990.4	13,292.7	8,059.7	37.0	43.4	139.90	-1,106.3	606.1	3,783.3	3,728.3	55.01	68.770	
11,400.0	7,989.6	13,294.0	8,059.8	38.1	43.5	139.19	-1,105.0	606.0	3,883.3	3,828.2	55.09	70.488	
11,500.0	7,988.8	13,295.3	8,059.8	39.1	43.5	138.50	-1,103.7	606.0	3,983.3	3,928.1	55.17	72.198	
11,600.0	7,987.9	13,296.6	8,059.8	40.2	43.5	137.82	-1,102.4	606.0	4,083.2	4,028.0	55.25	73.901	
11,700.0	7,987.1	13,297.9	8,059.8	41.3	43.5	137.16	-1,101.0	606.0	4,183.2	4,127.9	55.34	75.597	
11,800.0	7,986.3	13,299.2	8,059.9	42.4	43.5	136.51	-1,099.7	605.9	4,283.2	4,227.8	55.42	77.285	
11,900.0	7,985.5	13,300.6	8,059.9	43.4	43.5	135.88	-1,098.4	605.9	4,383.2	4,327.7	55.51	78.965	
12,000.0	7,984.7	13,301.9	8,059.9	44.5	43.5	135.27	-1,097.1	605.9	4,483.2	4,427.6	55.60	80.637	
12,100.0	7,983.9	13,303.2	8,060.0	45.6	43.5	134.66	-1,095.8	605.8	4,583.2	4,527.5	55.69	82.302	
12,200.0	7,983.0	13,304.5	8,060.0	46.7	43.5	134.08	-1,094.5	605.8	4,683.1	4,627.4	55.78	83.958	
12,300.0	7,982.2	13,305.8	8,060.0	47.8	43.5	133.50	-1,093.2	605.8	4,783.1	4,727.2	55.87	85.607	
12,400.0	7,981.4	13,307.1	8,060.0	48.9	43.6	132.94	-1,091.9	605.7	4,883.1	4,827.1	55.97	87.248	
12,500.0	7,980.6	13,308.4	8,060.1	50.0	43.6	132.39	-1,090.6	605.7	4,983.1	4,927.0	56.06	88.880	
12,600.0	7,979.8	13,309.7	8,060.1	51.0	43.6	131.86	-1,089.3	605.7	5,083.1	5,026.9	56.16	90.505	
12,700.0	7,979.0	13,311.0	8,060.1	52.1	43.6	131.34	-1,088.0	605.7	5,183.1	5,126.8	56.26	92.122	
12,800.0	7,978.1	13,312.3	8,060.2	53.2	43.6	130.83	-1,086.7	605.6	5,283.0	5,226.7	56.36	93.730	
12,900.0	7,977.3	13,316.0	8,060.3	54.3	43.6	129.42	-1,083.0	605.5	5,383.0	5,326.5	56.48	95.316	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,000.0	7,976.5	13,316.0	8,060.3	55.4	43.6	129.42	-1,083.0	605.5	5,483.0	5,426.4	56.58	96.915	
13,100.0	7,975.7	13,316.0	8,060.3	56.5	43.6	129.42	-1,083.0	605.5	5,583.0	5,526.3	56.68	98.507	
13,171.4	7,975.1	13,316.0	8,060.3	57.3	43.6	129.42	-1,083.0	605.5	5,654.4	5,597.6	56.75	99.638	
13,200.0	7,974.9	13,316.0	8,060.3	57.6	43.6	114.97	-1,083.0	605.5	5,683.0	5,626.2	56.78	100.091	
13,245.7	7,974.5	13,316.0	8,060.3	58.1	43.6	105.34	-1,083.0	605.5	5,728.7	5,671.9	56.82	100.813	
13,300.0	7,974.0	13,316.0	8,060.3	58.7	43.6	105.34	-1,083.0	605.5	5,782.9	5,726.0	56.88	101.669	
13,400.0	7,973.2	13,316.0	8,060.3	59.8	43.6	105.34	-1,083.0	605.5	5,882.8	5,825.8	56.98	103.240	
13,500.0	7,972.4	13,316.0	8,060.3	60.9	43.6	105.34	-1,083.0	605.5	5,982.8	5,925.7	57.09	104.803	
13,600.0	7,971.6	13,329.3	8,060.6	62.0	43.7	104.59	-1,069.7	605.2	6,082.7	6,025.4	57.24	106.266	
13,700.0	7,970.8	13,332.3	8,060.7	63.1	43.7	104.43	-1,066.7	605.2	6,182.6	6,125.2	57.36	107.790	
13,800.0	7,969.9	13,335.3	8,060.8	64.2	43.8	104.27	-1,063.7	605.1	6,282.5	6,225.0	57.48	109.305	
13,900.0	7,969.1	13,338.2	8,060.8	65.3	43.8	104.12	-1,060.7	605.0	6,382.4	6,324.8	57.60	110.811	
14,000.0	7,968.3	13,341.2	8,060.9	66.4	43.8	103.97	-1,057.8	605.0	6,482.3	6,424.6	57.72	112.309	
14,100.0	7,967.5	13,344.1	8,060.9	67.5	43.8	103.83	-1,054.9	604.9	6,582.3	6,524.4	57.84	113.798	
14,200.0	7,966.7	13,347.0	8,061.0	68.6	43.9	103.69	-1,052.0	604.8	6,682.2	6,624.2	57.97	115.278	
14,300.0	7,965.8	13,349.9	8,061.1	69.7	43.9	103.55	-1,049.1	604.8	6,782.1	6,724.0	58.09	116.750	
14,400.0	7,965.0	13,352.7	8,061.1	70.8	43.9	103.42	-1,046.3	604.7	6,882.0	6,823.8	58.22	118.213	
14,500.0	7,964.2	13,355.6	8,061.2	71.9	43.9	103.29	-1,043.4	604.7	6,982.0	6,923.6	58.34	119.668	
14,600.0	7,963.4	13,358.4	8,061.2	73.0	43.9	103.16	-1,040.6	604.6	7,081.9	7,023.4	58.47	121.114	
14,700.0	7,962.6	13,361.2	8,061.3	74.1	44.0	103.04	-1,037.8	604.5	7,181.8	7,123.2	58.60	122.552	
14,800.0	7,961.7	13,363.9	8,061.3	75.2	44.0	102.92	-1,035.1	604.5	7,281.7	7,223.0	58.73	123.982	
14,900.0	7,960.9	13,366.7	8,061.3	76.3	44.0	102.80	-1,032.3	604.4	7,381.7	7,322.8	58.86	125.403	
15,000.0	7,960.1	13,369.4	8,061.4	77.4	44.0	102.69	-1,029.6	604.4	7,481.6	7,422.6	59.00	126.816	
15,100.0	7,959.3	13,372.1	8,061.4	78.5	44.0	102.57	-1,026.9	604.3	7,581.5	7,522.4	59.13	128.220	
15,200.0	7,958.5	13,374.8	8,061.4	79.6	44.1	102.46	-1,024.2	604.3	7,681.5	7,622.2	59.26	129.616	
15,300.0	7,957.6	13,377.5	8,061.5	80.7	44.1	102.36	-1,021.5	604.2	7,781.4	7,722.0	59.40	131.004	
15,400.0	7,956.8	13,380.1	8,061.5	81.8	44.1	102.25	-1,018.9	604.2	7,881.3	7,821.8	59.53	132.384	
15,500.0	7,956.0	13,382.8	8,061.5	82.9	44.1	102.15	-1,016.3	604.1	7,981.3	7,921.6	59.67	133.756	
15,600.0	7,955.2	13,385.4	8,061.6	84.0	44.1	102.05	-1,013.6	604.1	8,081.2	8,021.4	59.81	135.120	
15,700.0	7,954.4	13,388.0	8,061.6	85.1	44.2	101.95	-1,011.0	604.0	8,181.1	8,121.2	59.95	136.475	
15,800.0	7,953.5	13,390.5	8,061.6	86.2	44.2	101.85	-1,008.5	603.9	8,281.1	8,221.0	60.08	137.823	
15,900.0	7,952.7	13,393.1	8,061.6	87.3	44.2	101.76	-1,005.9	603.9	8,381.0	8,320.8	60.22	139.163	
16,000.0	7,951.9	13,395.6	8,061.6	88.4	44.2	101.66	-1,003.4	603.9	8,480.9	8,420.6	60.36	140.495	
16,100.0	7,951.1	13,410.0	8,061.7	89.5	44.3	101.16	-989.0	603.6	8,580.9	8,520.3	60.56	141.686	
16,200.0	7,950.3	13,410.0	8,061.7	90.6	44.3	101.16	-989.0	603.6	8,680.8	8,620.1	60.69	143.029	
16,300.0	7,949.4	13,410.0	8,061.7	91.8	44.3	101.16	-989.0	603.6	8,780.7	8,719.9	60.82	144.366	
16,400.0	7,948.6	13,410.0	8,061.7	92.9	44.3	101.16	-989.0	603.6	8,880.7	8,819.7	60.95	145.695	
16,500.0	7,947.8	13,410.0	8,061.7	94.0	44.3	101.16	-989.0	603.6	8,980.6	8,919.5	61.09	147.017	
16,600.0	7,947.0	13,410.0	8,061.7	95.1	44.3	101.16	-989.0	603.6	9,080.5	9,019.3	61.22	148.332	
16,700.0	7,946.2	13,410.0	8,061.7	96.2	44.3	101.16	-989.0	603.6	9,180.5	9,119.1	61.35	149.640	
16,800.0	7,945.3	13,410.0	8,061.7	97.3	44.3	101.16	-989.0	603.6	9,280.4	9,218.9	61.48	150.942	
16,900.0	7,944.5	13,410.0	8,061.7	98.4	44.3	101.16	-989.0	603.6	9,380.4	9,318.7	61.62	152.236	
17,000.0	7,943.7	13,410.0	8,061.7	99.5	44.3	101.16	-989.0	603.6	9,480.3	9,418.5	61.75	153.524	
17,100.0	7,942.9	13,410.0	8,061.7	100.6	44.3	101.16	-989.0	603.6	9,580.2	9,518.4	61.89	154.805	
17,200.0	7,942.1	13,425.3	8,061.7	101.7	44.4	100.66	-973.7	603.3	9,680.2	9,618.1	62.10	155.880	
17,300.0	7,941.2	13,427.7	8,061.7	102.8	44.5	100.58	-971.3	603.3	9,780.1	9,717.9	62.25	157.114	
17,400.0	7,940.4	13,430.1	8,061.7	103.9	44.5	100.51	-968.9	603.2	9,880.0	9,817.6	62.40	158.341	
17,500.0	7,939.6	13,432.5	8,061.7	105.1	44.5	100.44	-966.5	603.2	9,980.0	9,917.4	62.55	159.560	
17,600.0	7,938.8	13,434.9	8,061.7	106.2	44.5	100.36	-964.1	603.1	10,079.9	10,017.2	62.70	160.773	
17,700.0	7,938.0	13,437.3	8,061.7	107.3	44.5	100.29	-961.8	603.1	10,179.9	10,117.0	62.85	161.979	
17,800.0	7,937.1	13,439.6	8,061.7	108.4	44.5	100.22	-959.4	603.1	10,279.8	10,216.8	63.00	163.178	
17,900.0	7,936.3	13,441.9	8,061.7	109.5	44.6	100.15	-957.1	603.0	10,379.8	10,316.6	63.15	164.370	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,996.2	7,935.5	13,444.1	8,061.7	110.6	44.6	100.09	-954.9	603.0	10,475.9	10,412.6	63.29	165.510	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #701H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8764-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	20.0	20.0	4.2	3.0	-100.00	-1,119.1	-6,343.8	6,441.8				
100.0	100.0	120.0	120.0	4.2	3.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.24	889.380	
200.0	200.0	220.0	220.0	4.2	3.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.25	889.026	
300.0	300.0	320.0	320.0	4.3	3.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.25	888.306	
400.0	400.0	420.0	420.0	4.3	3.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.26	887.223	
500.0	500.0	520.0	520.0	4.3	3.1	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.27	885.783	
600.0	600.0	620.0	620.0	4.3	3.1	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.29	883.989	
700.0	700.0	720.0	720.0	4.3	3.1	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.5	7.30	881.849	
800.0	800.0	820.0	820.0	4.4	3.2	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.4	7.33	879.371	
900.0	900.0	920.0	920.0	4.4	3.2	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.4	7.35	876.563	
1,000.0	1,000.0	1,020.0	1,020.0	4.4	3.3	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.4	7.38	873.437	
1,100.0	1,100.0	1,120.0	1,120.0	4.5	3.3	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.4	7.40	870.002	
1,200.0	1,200.0	1,220.0	1,220.0	4.5	3.4	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.3	7.44	866.271	
1,300.0	1,300.0	1,320.0	1,320.0	4.5	3.4	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.3	7.47	862.256	
1,400.0	1,400.0	1,420.0	1,420.0	4.6	3.5	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.3	7.51	857.970	
1,500.0	1,500.0	1,520.0	1,520.0	4.6	3.6	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.2	7.55	853.427	
1,600.0	1,600.0	1,620.0	1,620.0	4.7	3.6	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.2	7.59	848.640	
1,700.0	1,700.0	1,720.0	1,720.0	4.8	3.7	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.1	7.64	843.624	
1,800.0	1,800.0	1,820.0	1,820.0	4.8	3.8	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.1	7.68	838.394	
1,900.0	1,900.0	1,920.0	1,920.0	4.9	3.9	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.0	7.73	832.963	
2,000.0	2,000.0	2,020.0	2,020.0	5.0	4.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,434.0	7.79	827.347	
2,100.0	2,100.0	2,120.0	2,120.0	5.0	4.0	-100.00	-1,119.1	-6,343.8	6,441.8	6,433.9	7.84	821.559	
2,200.0	2,200.0	2,220.0	2,220.0	5.1	4.1	-100.00	-1,119.1	-6,343.8	6,441.8	6,433.9	7.90	815.613	
2,300.0	2,300.0	2,320.0	2,320.0	5.2	4.2	-100.00	-1,119.1	-6,343.8	6,441.8	6,433.8	7.96	809.525	
2,400.0	2,400.0	2,420.0	2,420.0	5.2	4.3	-100.00	-1,119.1	-6,343.8	6,441.8	6,433.7	8.02	803.307	
2,500.0	2,500.0	2,808.9	2,808.5	5.3	4.4	-100.10	-1,128.5	-6,332.6	6,438.9	6,430.7	8.21	783.942	
2,600.0	2,600.0	2,908.8	2,908.1	5.3	4.4	93.95	-1,133.0	-6,327.3	6,434.5	6,426.2	8.29	775.940	
2,700.0	2,699.8	3,008.7	3,007.8	5.3	4.4	94.03	-1,137.4	-6,322.0	6,430.4	6,422.0	8.37	767.937	
2,800.0	2,799.5	3,108.5	3,107.4	5.3	4.4	94.14	-1,141.9	-6,316.6	6,426.5	6,418.1	8.46	759.885	
2,900.0	2,898.9	3,208.3	3,206.9	5.3	4.4	94.18	-1,146.4	-6,311.3	6,422.8	6,414.2	8.54	751.747	
3,000.0	2,998.4	3,308.1	3,306.5	5.3	4.4	94.23	-1,150.9	-6,306.0	6,419.0	6,410.4	8.63	743.500	
3,100.0	3,097.8	3,407.9	3,406.0	5.2	4.4	94.28	-1,155.3	-6,300.6	6,415.3	6,406.6	8.73	735.158	
3,200.0	3,197.3	3,507.7	3,505.6	5.2	4.5	94.32	-1,159.8	-6,295.3	6,411.6	6,402.7	8.82	726.738	
3,300.0	3,296.7	3,607.5	3,605.2	5.2	4.5	94.37	-1,164.3	-6,290.0	6,407.8	6,398.9	8.92	718.252	
3,400.0	3,396.2	3,707.3	3,704.7	5.2	4.5	94.41	-1,168.8	-6,284.6	6,404.1	6,395.1	9.02	709.716	
3,500.0	3,495.6	3,807.1	3,804.3	5.2	4.5	94.46	-1,173.2	-6,279.3	6,400.4	6,391.3	9.13	701.142	
3,600.0	3,595.1	3,906.9	3,903.8	5.2	4.6	94.50	-1,177.7	-6,274.0	6,396.7	6,387.4	9.24	692.542	
3,700.0	3,694.5	4,006.7	4,003.4	5.2	4.6	94.55	-1,182.2	-6,268.6	6,393.0	6,383.6	9.35	683.929	
3,800.0	3,794.0	4,106.5	4,102.9	5.2	4.7	94.60	-1,186.7	-6,263.3	6,389.3	6,379.8	9.46	675.314	
3,900.0	3,893.4	4,206.3	4,202.5	5.2	4.7	94.64	-1,191.1	-6,258.0	6,385.6	6,376.0	9.58	666.707	
4,000.0	3,992.9	4,306.1	4,302.1	5.3	4.8	94.69	-1,195.6	-6,252.6	6,381.9	6,372.2	9.70	658.117	
4,100.0	4,092.3	4,405.9	4,401.6	5.3	4.8	94.73	-1,200.1	-6,247.3	6,378.2	6,368.3	9.82	649.555	
4,200.0	4,191.8	4,505.7	4,501.2	5.3	4.9	94.78	-1,204.6	-6,242.0	6,374.5	6,364.5	9.94	641.028	
4,300.0	4,291.2	4,605.5	4,600.7	5.3	4.9	94.83	-1,209.0	-6,236.6	6,370.8	6,360.7	10.07	632.544	
4,400.0	4,390.7	4,705.3	4,700.3	5.4	5.0	94.87	-1,213.5	-6,231.3	6,367.1	6,356.9	10.20	624.111	
4,500.0	4,490.1	4,805.1	4,799.8	5.4	5.1	94.92	-1,218.0	-6,226.0	6,363.4	6,353.1	10.33	615.736	
4,600.0	4,589.6	4,904.9	4,899.4	5.5	5.1	94.96	-1,222.5	-6,220.6	6,359.7	6,349.3	10.47	607.424	
4,700.0	4,689.0	5,004.7	4,999.0	5.5	5.2	95.01	-1,226.9	-6,215.3	6,356.1	6,345.5	10.61	599.181	
4,800.0	4,788.5	5,104.5	5,098.5	5.6	5.3	95.06	-1,231.4	-6,210.0	6,352.4	6,341.7	10.75	591.012	
4,900.0	4,887.9	5,204.3	5,198.1	5.6	5.3	95.10	-1,235.9	-6,204.6	6,348.7	6,337.8	10.89	582.922	
5,000.0	4,987.4	5,304.1	5,297.6	5.7	5.4	95.15	-1,240.4	-6,199.3	6,345.1	6,334.0	11.04	574.915	
5,100.0	5,086.9	5,403.9	5,397.2	5.7	5.5	95.20	-1,244.8	-6,194.0	6,341.4	6,330.2	11.18	566.995	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #701H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8764-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,186.3	5,503.7	5,496.7	5.8	5.6	95.24	-1,249.3	-6,188.6	6,337.8	6,326.4	11.33	559.164	
5,300.0	5,285.8	5,603.5	5,596.3	5.9	5.6	95.29	-1,253.8	-6,183.3	6,334.1	6,322.6	11.49	551.426	
5,400.0	5,385.2	5,703.3	5,695.9	5.9	5.7	95.34	-1,258.3	-6,178.0	6,330.5	6,318.8	11.64	543.784	
5,500.0	5,484.7	5,803.1	5,795.4	6.0	5.8	95.38	-1,262.7	-6,172.6	6,326.9	6,315.1	11.80	536.238	
5,600.0	5,584.1	5,902.9	5,895.0	6.1	5.9	95.43	-1,267.2	-6,167.3	6,323.2	6,311.3	11.96	528.792	
5,700.0	5,683.6	6,002.7	5,994.5	6.1	6.0	95.48	-1,271.7	-6,162.0	6,319.6	6,307.5	12.12	521.447	
5,800.0	5,783.0	6,102.5	6,094.1	6.2	6.1	95.52	-1,276.2	-6,156.6	6,316.0	6,303.7	12.28	514.204	
5,900.0	5,882.5	6,202.3	6,193.6	6.3	6.2	95.57	-1,280.6	-6,151.3	6,312.3	6,299.9	12.45	507.064	
6,000.0	5,981.9	6,302.1	6,293.2	6.4	6.3	95.62	-1,285.1	-6,146.0	6,308.7	6,296.1	12.62	500.027	
6,100.0	6,081.4	6,401.9	6,392.7	6.4	6.3	95.67	-1,289.6	-6,140.6	6,305.1	6,292.3	12.79	493.095	
6,200.0	6,180.8	6,501.7	6,492.3	6.5	6.4	95.71	-1,294.1	-6,135.3	6,301.5	6,288.6	12.96	486.267	
6,300.0	6,280.3	6,601.5	6,591.9	6.6	6.5	95.76	-1,298.5	-6,130.0	6,297.9	6,284.8	13.13	479.544	
6,400.0	6,379.7	6,701.3	6,691.4	6.7	6.6	95.81	-1,303.0	-6,124.6	6,294.3	6,281.0	13.31	472.926	
6,500.0	6,479.2	6,801.1	6,791.0	6.8	6.7	95.86	-1,307.5	-6,119.3	6,290.7	6,277.2	13.49	466.413	
6,600.0	6,578.6	6,900.9	6,890.5	6.8	6.8	95.90	-1,312.0	-6,114.0	6,287.1	6,273.5	13.67	460.003	
6,700.0	6,678.1	7,000.7	6,990.1	6.9	6.9	95.95	-1,316.4	-6,108.6	6,283.5	6,269.7	13.85	453.697	
6,800.0	6,777.5	7,100.5	7,089.6	7.0	7.0	96.00	-1,320.9	-6,103.3	6,280.0	6,265.9	14.03	447.494	
6,900.0	6,877.0	7,200.3	7,189.2	7.1	7.1	96.05	-1,325.4	-6,098.0	6,276.4	6,262.2	14.22	441.393	
7,000.0	6,976.4	7,300.1	7,288.8	7.2	7.2	96.09	-1,329.9	-6,092.6	6,272.8	6,258.4	14.41	435.394	
7,100.0	7,075.9	7,399.9	7,388.3	7.3	7.3	96.14	-1,334.3	-6,087.3	6,269.2	6,254.6	14.60	429.495	
7,200.0	7,175.3	7,499.7	7,487.9	7.4	7.4	96.19	-1,338.8	-6,082.0	6,265.7	6,250.9	14.79	423.696	
7,300.0	7,274.8	7,599.5	7,587.4	7.5	7.5	96.24	-1,343.3	-6,076.7	6,262.1	6,247.1	14.98	417.995	
7,400.0	7,374.3	7,699.3	7,687.0	7.6	7.6	96.28	-1,347.8	-6,071.3	6,258.6	6,243.4	15.18	412.392	
7,500.0	7,473.7	7,799.1	7,786.5	7.7	7.8	96.33	-1,352.2	-6,066.0	6,255.0	6,239.6	15.37	406.884	
7,580.8	7,554.1	10,034.2	9,286.0	7.7	12.7	88.45	-2,283.2	-5,607.4	6,242.4	6,221.2	21.13	295.397	
7,600.0	7,573.1	10,034.9	9,286.0	7.7	12.7	70.34	-2,283.9	-5,607.2	6,236.7	6,215.6	21.13	295.164	
7,625.0	7,597.9	10,035.8	9,286.0	7.7	12.7	54.88	-2,284.8	-5,606.9	6,228.3	6,207.2	21.13	294.712	
7,650.0	7,622.5	10,036.9	9,286.0	7.7	12.7	45.74	-2,285.8	-5,606.6	6,218.9	6,197.7	21.14	294.135	
7,675.0	7,646.9	10,038.0	9,286.0	7.7	12.7	40.11	-2,286.9	-5,606.3	6,208.3	6,187.2	21.16	293.453	
7,700.0	7,670.9	10,039.3	9,286.0	7.7	12.7	36.48	-2,288.1	-5,605.9	6,196.7	6,175.6	21.17	292.668	
7,725.0	7,694.7	10,040.6	9,286.0	7.8	12.7	34.08	-2,289.3	-5,605.5	6,184.1	6,162.9	21.19	291.785	
7,750.0	7,718.0	10,042.0	9,286.0	7.8	12.7	32.50	-2,290.7	-5,605.1	6,170.5	6,149.3	21.22	290.807	
7,775.0	7,740.8	10,043.4	9,286.0	7.8	12.7	31.49	-2,292.1	-5,604.7	6,156.0	6,134.7	21.25	289.739	
7,800.0	7,763.0	10,045.0	9,286.0	7.8	12.7	30.93	-2,293.5	-5,604.2	6,140.5	6,119.2	21.28	288.586	
7,825.0	7,784.7	10,046.6	9,286.0	7.8	12.8	30.72	-2,295.1	-5,603.7	6,124.1	6,102.8	21.31	287.352	
7,850.0	7,805.7	10,048.3	9,286.0	7.9	12.8	30.83	-2,296.7	-5,603.2	6,106.8	6,085.5	21.35	286.044	
7,875.0	7,825.9	10,050.0	9,286.0	7.9	12.8	31.23	-2,298.4	-5,602.7	6,088.8	6,067.4	21.39	284.667	
7,900.0	7,845.4	10,051.8	9,286.0	7.9	12.8	31.92	-2,300.1	-5,602.2	6,069.9	6,048.5	21.43	283.228	
7,925.0	7,864.0	10,053.7	9,286.0	8.0	12.8	32.91	-2,301.9	-5,601.7	6,050.4	6,028.9	21.48	281.734	
7,950.0	7,881.7	10,055.6	9,286.0	8.0	12.8	34.22	-2,303.7	-5,601.1	6,030.1	6,008.6	21.52	280.193	
7,975.0	7,898.5	10,057.6	9,286.0	8.1	12.8	35.92	-2,305.6	-5,600.5	6,009.2	5,987.7	21.57	278.611	
8,000.0	7,914.4	10,059.6	9,286.0	8.1	12.8	38.05	-2,307.5	-5,600.0	5,987.8	5,966.1	21.62	276.996	
8,025.0	7,929.2	10,061.7	9,286.0	8.1	12.9	40.70	-2,309.5	-5,599.4	5,965.8	5,944.1	21.67	275.356	
8,050.0	7,942.9	10,063.7	9,286.0	8.2	12.9	44.00	-2,311.5	-5,598.8	5,943.3	5,921.6	21.71	273.698	
8,075.0	7,955.5	10,065.9	9,286.0	8.2	12.9	48.11	-2,313.5	-5,598.2	5,920.4	5,898.6	21.76	272.029	
8,100.0	7,967.0	10,100.0	9,286.0	8.3	13.1	52.59	-2,346.3	-5,588.6	5,897.4	5,875.4	22.02	267.770	
8,125.0	7,977.3	10,100.0	9,286.0	8.3	13.1	58.96	-2,346.3	-5,588.6	5,873.8	5,851.7	22.06	266.293	
8,150.0	7,986.4	10,100.0	9,286.0	8.4	13.1	66.76	-2,346.3	-5,588.6	5,849.9	5,827.9	22.09	264.824	
8,175.0	7,994.3	10,100.0	9,286.0	8.5	13.1	76.06	-2,346.3	-5,588.6	5,825.9	5,803.8	22.12	263.368	
8,200.0	8,001.0	10,100.0	9,286.0	8.5	13.1	86.65	-2,346.3	-5,588.6	5,801.8	5,779.7	22.15	261.929	
8,225.0	8,006.3	10,100.0	9,286.0	8.6	13.1	97.91	-2,346.3	-5,588.6	5,777.6	5,755.5	22.18	260.510	
8,250.0	8,010.4	10,100.0	9,286.0	8.7	13.1	108.97	-2,346.3	-5,588.6	5,753.5	5,731.3	22.20	259.116	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #701H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8764-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,275.0	8,013.3	10,100.0	9,286.0	8.8	13.1	119.07	-2,346.3	-5,588.6	5,729.4	5,707.2	22.23	257.747	
8,300.0	8,014.8	10,100.0	9,286.0	8.9	13.1	127.77	-2,346.3	-5,588.6	5,705.5	5,683.2	22.25	256.407	
8,320.6	8,015.1	10,100.0	9,286.0	9.0	13.1	133.84	-2,346.3	-5,588.6	5,685.9	5,663.7	22.27	255.327	
8,400.0	8,014.4	10,100.0	9,286.0	9.5	13.1	137.19	-2,346.3	-5,588.6	5,610.8	5,588.4	22.36	250.974	
8,500.0	8,013.6	10,100.0	9,286.0	10.1	13.1	141.94	-2,346.3	-5,588.6	5,515.6	5,493.1	22.48	245.376	
8,600.0	8,012.7	10,100.0	9,286.0	10.8	13.1	147.32	-2,346.3	-5,588.6	5,419.9	5,397.3	22.61	239.740	
8,700.0	8,011.9	10,100.0	9,286.0	11.5	13.1	153.33	-2,346.3	-5,588.6	5,323.9	5,301.1	22.74	234.101	
8,800.0	8,011.1	10,100.0	9,286.0	12.4	13.1	159.94	-2,346.3	-5,588.6	5,227.5	5,204.7	22.88	228.484	
8,900.0	8,010.2	10,100.0	9,286.0	13.2	13.1	167.03	-2,346.3	-5,588.6	5,131.0	5,108.0	23.02	222.908	
9,000.0	8,009.4	10,100.0	9,286.0	14.1	13.1	174.41	-2,346.3	-5,588.6	5,034.4	5,011.3	23.16	217.385	
9,100.0	8,008.5	10,100.0	9,286.0	15.0	13.1	-178.18	-2,346.3	-5,588.6	4,937.9	4,914.6	23.30	211.924	
9,200.0	8,007.7	10,100.0	9,286.0	15.9	13.1	-170.97	-2,346.3	-5,588.6	4,841.5	4,818.1	23.44	206.528	
9,300.0	8,006.8	10,100.0	9,286.0	16.8	13.1	-164.19	-2,346.3	-5,588.6	4,745.4	4,721.9	23.59	201.193	
9,400.0	8,006.0	10,100.0	9,286.0	17.7	13.1	-157.99	-2,346.3	-5,588.6	4,649.8	4,626.1	23.73	195.911	
9,500.0	8,005.1	10,100.0	9,286.0	18.7	13.1	-152.42	-2,346.3	-5,588.6	4,554.8	4,530.9	23.89	190.670	
9,600.0	8,004.3	10,100.0	9,286.0	19.6	13.1	-147.49	-2,346.3	-5,588.6	4,460.5	4,436.4	24.05	185.452	
9,700.0	8,003.5	10,100.0	9,286.0	20.6	13.1	-143.17	-2,346.3	-5,588.6	4,367.1	4,342.8	24.23	180.236	
9,800.0	8,002.7	10,100.0	9,286.0	21.6	13.1	-139.40	-2,346.3	-5,588.6	4,274.8	4,250.4	24.43	174.997	
9,815.2	8,002.5	10,100.0	9,286.0	21.7	13.1	-138.88	-2,346.3	-5,588.6	4,260.8	4,236.4	24.46	174.208	
9,900.0	8,001.8	10,069.5	9,286.0	22.5	12.9	-139.62	-2,317.0	-5,597.1	4,183.1	4,158.7	24.46	170.992	
10,000.0	8,001.0	10,057.7	9,286.0	23.5	12.8	-139.91	-2,305.7	-5,600.5	4,091.9	4,067.3	24.65	166.011	
10,100.0	8,000.2	10,045.7	9,286.0	24.5	12.7	-140.21	-2,294.2	-5,604.0	4,001.1	3,976.2	24.86	160.924	
10,200.0	7,999.4	10,033.3	9,286.0	25.5	12.7	-140.53	-2,282.4	-5,607.7	3,910.6	3,885.5	25.11	155.748	
10,300.0	7,998.6	10,000.0	9,286.0	26.5	12.4	-141.38	-2,250.6	-5,617.7	3,820.6	3,795.3	25.25	151.339	
10,400.0	7,997.8	10,000.0	9,286.0	27.6	12.4	-141.38	-2,250.6	-5,617.7	3,730.7	3,705.1	25.64	145.486	
10,500.0	7,996.9	10,000.0	9,286.0	28.6	12.4	-141.38	-2,250.6	-5,617.7	3,641.4	3,615.3	26.08	139.602	
10,600.0	7,996.1	10,000.0	9,286.0	29.6	12.4	-141.38	-2,250.6	-5,617.7	3,552.7	3,526.1	26.57	133.708	
10,700.0	7,995.3	9,965.4	9,286.0	30.7	12.2	-142.28	-2,217.8	-5,628.6	3,464.2	3,437.4	26.84	129.069	
10,800.0	7,994.5	9,950.6	9,286.0	31.7	12.1	-142.67	-2,203.8	-5,633.4	3,376.3	3,349.0	27.29	123.699	
10,900.0	7,993.7	8,194.2	8,180.7	32.8	8.2	-142.17	-1,370.0	-6,044.9	3,279.0	3,259.7	19.31	169.830	
11,000.0	7,992.8	8,188.1	8,174.6	33.8	8.2	-141.33	-1,369.7	-6,045.2	3,179.2	3,159.9	19.34	164.393	
11,100.0	7,992.0	8,182.0	8,168.5	34.9	8.2	-140.45	-1,369.4	-6,045.5	3,079.5	3,060.2	19.37	158.968	
11,200.0	7,991.2	8,175.9	8,162.4	35.9	8.2	-139.54	-1,369.1	-6,045.9	2,979.8	2,960.4	19.41	153.557	
11,300.0	7,990.4	8,169.8	8,156.3	37.0	8.2	-138.59	-1,368.9	-6,046.2	2,880.1	2,860.7	19.44	148.160	
11,400.0	7,989.6	8,163.6	8,150.2	38.1	8.1	-137.60	-1,368.6	-6,046.5	2,780.4	2,761.0	19.47	142.779	
11,500.0	7,988.8	8,157.5	8,144.1	39.1	8.1	-136.57	-1,368.3	-6,046.8	2,680.8	2,661.3	19.51	137.415	
11,600.0	7,987.9	8,151.4	8,138.0	40.2	8.1	-135.49	-1,368.0	-6,047.2	2,581.1	2,561.6	19.54	132.068	
11,700.0	7,987.1	8,145.3	8,131.9	41.3	8.1	-134.36	-1,367.8	-6,047.5	2,481.4	2,461.9	19.58	126.740	
11,800.0	7,986.3	8,139.2	8,125.8	42.4	8.1	-133.18	-1,367.5	-6,047.8	2,381.8	2,362.2	19.61	121.429	
11,900.0	7,985.5	8,133.1	8,119.7	43.4	8.1	-131.95	-1,367.2	-6,048.1	2,282.2	2,262.5	19.65	116.138	
12,000.0	7,984.7	8,126.9	8,113.6	44.5	8.1	-130.67	-1,366.9	-6,048.5	2,182.6	2,162.9	19.69	110.865	
12,100.0	7,983.9	8,120.8	8,107.5	45.6	8.1	-129.33	-1,366.7	-6,048.8	2,083.0	2,063.2	19.72	105.610	
12,200.0	7,983.0	8,114.7	8,101.4	46.7	8.1	-127.93	-1,366.4	-6,049.1	1,983.4	1,963.6	19.76	100.372	
12,300.0	7,982.2	8,108.6	8,095.2	47.8	8.1	-126.48	-1,366.1	-6,049.4	1,883.9	1,864.1	19.80	95.149	
12,400.0	7,981.4	8,102.5	8,089.1	48.9	8.1	-124.95	-1,365.8	-6,049.8	1,784.3	1,764.5	19.84	89.940	
12,500.0	7,980.6	8,096.4	8,083.0	50.0	8.1	-123.37	-1,365.6	-6,050.1	1,684.9	1,665.0	19.88	84.740	
12,600.0	7,979.8	8,090.2	8,076.9	51.0	8.1	-121.71	-1,365.3	-6,050.4	1,585.4	1,565.5	19.93	79.547	
12,700.0	7,979.0	8,084.1	8,070.8	52.1	8.1	-119.99	-1,365.0	-6,050.8	1,486.0	1,466.0	19.99	74.355	
12,800.0	7,978.1	8,078.0	8,064.7	53.2	8.1	-118.21	-1,364.7	-6,051.1	1,386.7	1,366.7	20.05	69.156	
12,900.0	7,977.3	8,071.9	8,058.6	54.3	8.0	-116.35	-1,364.5	-6,051.4	1,287.5	1,267.3	20.13	63.942	
13,000.0	7,976.5	8,065.8	8,052.5	55.4	8.0	-114.42	-1,364.2	-6,051.7	1,188.3	1,168.1	20.24	58.699	
13,100.0	7,975.7	8,059.7	8,046.4	56.5	8.0	-112.42	-1,363.9	-6,052.1	1,089.3	1,068.9	20.39	53.412	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #701H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8764-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,171.4	7,975.1	8,055.3	8,042.1	57.3	8.0	-110.96	-1,363.7	-6,052.3	1,018.7	998.1	20.54	49.601	
13,200.0	7,974.9	8,053.5	8,040.3	57.6	8.0	-109.15	-1,363.7	-6,052.4	990.4	969.8	20.61	48.061	
13,245.7	7,974.5	8,050.7	8,037.5	58.1	8.0	-106.67	-1,363.5	-6,052.5	945.4	924.6	20.74	45.572	
13,300.0	7,974.0	8,047.3	8,034.1	58.7	8.0	-105.63	-1,363.4	-6,052.7	892.1	871.2	20.96	42.569	
13,400.0	7,973.2	8,041.1	8,027.9	59.8	8.0	-103.68	-1,363.1	-6,053.1	794.3	772.8	21.52	36.901	
13,500.0	7,972.4	8,034.8	8,021.7	60.9	8.0	-101.68	-1,362.8	-6,053.4	697.0	674.6	22.44	31.066	
13,600.0	7,971.6	8,028.6	8,015.5	62.0	8.0	-99.66	-1,362.5	-6,053.7	600.6	576.7	23.91	25.116	
13,700.0	7,970.8	8,022.4	8,009.2	63.1	8.0	-97.60	-1,362.3	-6,054.1	505.5	479.1	26.32	19.204	
13,800.0	7,969.9	8,016.1	8,003.0	64.2	8.0	-95.51	-1,362.0	-6,054.4	412.5	382.2	30.30	13.615	
13,900.0	7,969.1	8,009.9	7,996.8	65.3	8.0	-93.40	-1,361.7	-6,054.7	323.8	286.8	37.00	8.752	
14,000.0	7,968.3	8,003.7	7,990.6	66.4	8.0	-91.28	-1,361.4	-6,055.1	243.7	195.4	48.26	5.049	
14,100.0	7,967.5	7,997.4	7,984.4	67.5	8.0	-89.15	-1,361.1	-6,055.4	184.0	119.2	64.78	2.841	
14,178.1	7,966.8	7,992.6	7,979.5	68.3	8.0	-87.48	-1,360.9	-6,055.6	166.7	92.1	74.60	2.234 CC, ES	
14,200.0	7,966.7	7,991.2	7,978.1	68.6	8.0	-87.01	-1,360.9	-6,055.7	168.1	92.8	75.28	2.233 SF	
14,300.0	7,965.8	7,985.0	7,971.9	69.7	8.0	-84.87	-1,360.6	-6,056.1	206.4	138.3	68.05	3.033	
14,400.0	7,965.0	7,978.7	7,965.7	70.8	7.9	-82.74	-1,360.3	-6,056.4	277.2	220.1	57.06	4.857	
14,500.0	7,964.2	7,972.5	7,959.5	71.9	7.9	-80.62	-1,360.0	-6,056.7	361.9	312.8	49.16	7.362	
14,600.0	7,963.4	7,966.3	7,953.3	73.0	7.9	-78.52	-1,359.7	-6,057.1	452.9	408.9	43.94	10.307	
14,700.0	7,962.6	7,960.0	7,947.0	74.1	7.9	-76.45	-1,359.5	-6,057.4	546.9	506.5	40.40	13.536	
14,800.0	7,961.7	7,953.8	7,940.8	75.2	7.9	-74.40	-1,359.2	-6,057.7	642.7	604.7	37.92	16.948	
14,900.0	7,960.9	7,947.5	7,934.6	76.3	7.9	-72.39	-1,358.9	-6,058.1	739.5	703.4	36.11	20.477	
15,000.0	7,960.1	7,941.3	7,928.4	77.4	7.9	-70.42	-1,358.6	-6,058.4	837.1	802.3	34.76	24.080	
15,100.0	7,959.3	7,935.1	7,922.2	78.5	7.9	-68.48	-1,358.3	-6,058.7	935.1	901.3	33.73	27.726	
15,200.0	7,958.5	7,928.8	7,915.9	79.6	7.9	-66.59	-1,358.1	-6,059.1	1,033.4	1,000.5	32.92	31.394	
15,300.0	7,957.6	7,922.6	7,909.7	80.7	7.9	-64.75	-1,357.8	-6,059.4	1,132.0	1,099.8	32.28	35.071	
15,400.0	7,956.8	7,916.4	7,903.5	81.8	7.9	-62.95	-1,357.5	-6,059.7	1,230.8	1,199.1	31.77	38.746	
15,500.0	7,956.0	7,910.1	7,897.3	82.9	7.9	-61.21	-1,357.2	-6,060.1	1,329.8	1,298.4	31.36	42.411	
15,600.0	7,955.2	7,903.9	7,891.1	84.0	7.9	-59.51	-1,356.9	-6,060.4	1,428.9	1,397.9	31.02	46.061	
15,700.0	7,954.4	7,897.7	7,884.8	85.1	7.9	-57.87	-1,356.7	-6,060.7	1,528.0	1,497.3	30.75	49.692	
15,800.0	7,953.5	7,891.4	7,878.6	86.2	7.9	-56.28	-1,356.4	-6,061.1	1,627.3	1,596.8	30.53	53.300	
15,900.0	7,952.7	7,885.2	7,872.4	87.3	7.8	-54.74	-1,356.1	-6,061.4	1,726.6	1,696.2	30.35	56.885	
16,000.0	7,951.9	7,879.0	7,866.2	88.4	7.8	-53.25	-1,355.8	-6,061.7	1,826.0	1,795.8	30.21	60.442	
16,100.0	7,951.1	7,872.7	7,860.0	89.5	7.8	-51.81	-1,355.5	-6,062.1	1,925.4	1,895.3	30.10	63.973	
16,200.0	7,950.3	7,866.5	7,853.7	90.6	7.8	-50.43	-1,355.3	-6,062.4	2,024.8	1,994.8	30.01	67.474	
16,300.0	7,949.4	7,860.3	7,847.5	91.8	7.8	-49.09	-1,355.0	-6,062.7	2,124.3	2,094.4	29.94	70.947	
16,400.0	7,948.6	7,854.0	7,841.3	92.9	7.8	-47.80	-1,354.7	-6,063.1	2,223.8	2,193.9	29.89	74.389	
16,500.0	7,947.8	7,847.8	7,835.1	94.0	7.8	-46.55	-1,354.4	-6,063.4	2,323.4	2,293.5	29.86	77.802	
16,600.0	7,947.0	7,841.5	7,828.9	95.1	7.8	-45.36	-1,354.1	-6,063.7	2,422.9	2,393.1	29.84	81.184	
16,700.0	7,946.2	7,835.3	7,822.6	96.2	7.8	-44.20	-1,353.9	-6,064.1	2,522.5	2,492.7	29.84	84.535	
16,800.0	7,945.3	7,829.1	7,816.4	97.3	7.8	-43.09	-1,353.6	-6,064.4	2,622.1	2,592.2	29.85	87.855	
16,900.0	7,944.5	7,822.8	7,810.2	98.4	7.8	-42.01	-1,353.3	-6,064.7	2,721.7	2,691.8	29.86	91.145	
17,000.0	7,943.7	7,816.6	7,804.0	99.5	7.8	-40.98	-1,353.0	-6,065.1	2,821.3	2,791.4	29.89	94.404	
17,100.0	7,942.9	7,810.4	7,797.8	100.6	7.8	-39.99	-1,352.7	-6,065.4	2,921.0	2,891.0	29.92	97.632	
17,200.0	7,942.1	7,804.1	7,791.5	101.7	7.8	-39.03	-1,352.5	-6,065.7	3,020.6	2,990.7	29.96	100.830	
17,300.0	7,941.2	7,797.9	7,785.3	102.8	7.8	-38.10	-1,352.2	-6,066.1	3,120.3	3,090.3	30.00	103.997	
17,400.0	7,940.4	7,791.7	7,779.1	103.9	7.7	-37.21	-1,351.9	-6,066.4	3,219.9	3,189.9	30.06	107.134	
17,500.0	7,939.6	7,785.4	7,772.9	105.1	7.7	-36.36	-1,351.6	-6,066.7	3,319.6	3,289.5	30.11	110.240	
17,600.0	7,938.8	7,779.2	7,766.7	106.2	7.7	-35.53	-1,351.3	-6,067.0	3,419.3	3,389.1	30.17	113.317	
17,700.0	7,938.0	7,773.0	7,760.4	107.3	7.7	-34.73	-1,351.1	-6,067.4	3,519.0	3,488.7	30.24	116.364	
17,800.0	7,937.1	7,766.7	7,754.2	108.4	7.7	-33.96	-1,350.8	-6,067.7	3,618.7	3,588.4	30.31	119.381	
17,900.0	7,936.3	7,760.5	7,748.0	109.5	7.7	-33.22	-1,350.5	-6,068.0	3,718.4	3,688.0	30.39	122.370	
17,996.2	7,935.5	7,754.5	7,742.0	110.6	7.7	-32.53	-1,350.2	-6,068.4	3,814.3	3,783.9	30.46	125.217	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #702H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8697-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	19.0	19.0	4.2	3.0	-99.95	-1,118.7	-6,373.8	6,471.2				
100.0	100.0	119.0	119.0	4.2	3.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.24	893.452	
200.0	200.0	219.0	219.0	4.2	3.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.25	893.098	
300.0	300.0	319.0	319.0	4.3	3.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.25	892.377	
400.0	400.0	419.0	419.0	4.3	3.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.26	891.293	
500.0	500.0	519.0	519.0	4.3	3.1	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.27	889.849	
600.0	600.0	619.0	619.0	4.3	3.1	-99.95	-1,118.7	-6,373.8	6,471.2	6,464.0	7.29	888.050	
700.0	700.0	719.0	719.0	4.3	3.1	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.9	7.30	885.904	
800.0	800.0	819.0	819.0	4.4	3.2	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.9	7.33	883.418	
900.0	900.0	919.0	919.0	4.4	3.2	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.9	7.35	880.601	
1,000.0	1,000.0	1,019.0	1,019.0	4.4	3.3	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.9	7.37	877.465	
1,100.0	1,100.0	1,119.0	1,119.0	4.5	3.3	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.8	7.40	874.018	
1,200.0	1,200.0	1,219.0	1,219.0	4.5	3.4	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.8	7.44	870.274	
1,300.0	1,300.0	1,319.0	1,319.0	4.5	3.4	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.8	7.47	866.245	
1,400.0	1,400.0	1,419.0	1,419.0	4.6	3.5	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.7	7.51	861.943	
1,500.0	1,500.0	1,519.0	1,519.0	4.6	3.6	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.7	7.55	857.384	
1,600.0	1,600.0	1,619.0	1,619.0	4.7	3.6	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.7	7.59	852.579	
1,700.0	1,700.0	1,719.0	1,719.0	4.8	3.7	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.6	7.64	847.545	
1,800.0	1,800.0	1,819.0	1,819.0	4.8	3.8	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.6	7.68	842.295	
1,900.0	1,900.0	1,919.0	1,919.0	4.9	3.9	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.5	7.73	836.844	
2,000.0	2,000.0	2,019.0	2,019.0	5.0	4.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.5	7.79	831.205	
2,100.0	2,100.0	2,119.0	2,119.0	5.0	4.0	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.4	7.84	825.395	
2,200.0	2,200.0	2,219.0	2,219.0	5.1	4.1	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.3	7.90	819.427	
2,300.0	2,300.0	2,319.0	2,319.0	5.2	4.2	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.3	7.96	813.314	
2,400.0	2,400.0	2,419.0	2,419.0	5.2	4.3	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.2	8.02	807.071	
2,500.0	2,500.0	2,519.0	2,519.0	5.3	4.4	-99.95	-1,118.7	-6,373.8	6,471.2	6,463.2	8.08	800.711	
2,600.0	2,600.0	2,619.0	2,619.0	5.3	4.5	94.06	-1,118.7	-6,373.8	6,471.4	6,463.2	8.15	794.339	
2,700.0	2,699.8	2,718.8	2,718.8	5.3	4.6	94.10	-1,118.7	-6,373.8	6,471.7	6,463.5	8.21	788.007	
2,800.0	2,799.5	2,818.5	2,818.5	5.3	4.7	94.16	-1,118.7	-6,373.8	6,472.4	6,464.1	8.28	781.659	
2,900.0	2,898.9	2,917.9	2,917.9	5.3	4.8	94.25	-1,118.7	-6,373.8	6,473.1	6,464.8	8.35	775.249	
3,000.0	2,998.4	3,017.4	3,017.4	5.3	4.9	94.34	-1,118.7	-6,373.8	6,473.9	6,465.5	8.42	768.743	
3,100.0	3,097.8	3,116.8	3,116.8	5.2	5.0	94.44	-1,118.7	-6,373.8	6,474.7	6,466.2	8.50	762.149	
3,200.0	3,197.3	3,216.3	3,216.3	5.2	5.1	94.53	-1,118.7	-6,373.8	6,475.6	6,467.0	8.57	755.477	
3,300.0	3,296.7	3,315.7	3,315.7	5.2	5.2	94.62	-1,118.7	-6,373.8	6,476.4	6,467.7	8.65	748.735	
3,400.0	3,396.2	3,415.2	3,415.2	5.2	5.3	94.71	-1,118.7	-6,373.8	6,477.2	6,468.5	8.73	741.929	
3,500.0	3,495.6	3,514.6	3,514.6	5.2	5.4	94.80	-1,118.7	-6,373.8	6,478.1	6,469.3	8.81	735.069	
3,600.0	3,595.1	3,614.1	3,614.1	5.2	5.6	94.89	-1,118.7	-6,373.8	6,479.0	6,470.1	8.90	728.161	
3,700.0	3,694.5	3,713.5	3,713.5	5.2	5.7	94.99	-1,118.7	-6,373.8	6,479.9	6,470.9	8.98	721.214	
3,800.0	3,794.0	3,813.0	3,813.0	5.2	5.8	95.08	-1,118.7	-6,373.8	6,480.8	6,471.8	9.07	714.234	
3,900.0	3,893.4	3,912.4	3,912.4	5.2	5.9	95.17	-1,118.7	-6,373.8	6,481.8	6,472.6	9.17	707.228	
4,000.0	3,992.9	4,011.9	4,011.9	5.3	6.0	95.26	-1,118.7	-6,373.8	6,482.7	6,473.5	9.26	700.203	
4,100.0	4,092.3	4,111.3	4,111.3	5.3	6.1	95.35	-1,118.7	-6,373.8	6,483.7	6,474.3	9.35	693.166	
4,200.0	4,191.8	4,210.8	4,210.8	5.3	6.2	95.44	-1,118.7	-6,373.8	6,484.7	6,475.2	9.45	686.123	
4,300.0	4,291.2	4,310.2	4,310.2	5.3	6.4	95.54	-1,118.7	-6,373.8	6,485.7	6,476.1	9.55	679.080	
4,400.0	4,390.7	4,409.7	4,409.7	5.4	6.5	95.63	-1,118.7	-6,373.8	6,486.7	6,477.1	9.65	672.042	
4,500.0	4,490.1	4,509.1	4,509.1	5.4	6.6	95.72	-1,118.7	-6,373.8	6,487.8	6,478.0	9.76	665.015	
4,600.0	4,589.6	4,608.6	4,608.6	5.5	6.7	95.81	-1,118.7	-6,373.8	6,488.8	6,479.0	9.86	658.005	
4,700.0	4,689.0	4,708.0	4,708.0	5.5	6.8	95.90	-1,118.7	-6,373.8	6,489.9	6,479.9	9.97	651.015	
4,800.0	4,788.5	4,807.5	4,807.5	5.6	6.9	95.99	-1,118.7	-6,373.8	6,491.0	6,480.9	10.08	644.052	
4,900.0	4,887.9	4,906.9	4,906.9	5.6	7.1	96.08	-1,118.7	-6,373.8	6,492.1	6,481.9	10.19	637.118	
5,000.0	4,987.4	5,006.4	5,006.4	5.7	7.2	96.17	-1,118.7	-6,373.8	6,493.2	6,482.9	10.30	630.219	
5,100.0	5,086.9	5,105.9	5,105.9	5.7	7.3	96.27	-1,118.7	-6,373.8	6,494.3	6,483.9	10.42	623.358	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #702H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8697-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,186.3	5,205.3	5,205.3	5.8	7.4	96.36	-1,118.7	-6,373.8	6,495.5	6,485.0	10.54	616.539	
5,300.0	5,285.8	5,304.8	5,304.8	5.9	7.5	96.45	-1,118.7	-6,373.8	6,496.7	6,486.0	10.65	609.765	
5,400.0	5,385.2	5,404.2	5,404.2	5.9	7.7	96.54	-1,118.7	-6,373.8	6,497.9	6,487.1	10.78	603.040	
5,500.0	5,484.7	5,500.0	5,500.0	6.0	7.8	96.63	-1,118.7	-6,373.8	6,499.1	6,488.2	10.90	596.478	
5,600.0	5,584.1	5,582.4	5,582.4	6.1	7.8	96.69	-1,119.9	-6,373.8	6,500.4	6,489.4	11.01	590.463	
5,700.0	5,683.6	5,662.3	5,662.2	6.1	7.8	96.73	-1,123.3	-6,373.7	6,502.1	6,491.0	11.12	584.622	
5,800.0	5,783.0	5,742.3	5,742.0	6.2	7.7	96.76	-1,128.9	-6,373.7	6,504.2	6,492.9	11.24	578.823	
5,900.0	5,882.5	5,834.1	5,833.5	6.3	7.7	96.77	-1,137.5	-6,373.5	6,506.4	6,495.1	11.36	572.736	
6,000.0	5,981.9	5,934.1	5,933.0	6.4	7.7	96.77	-1,147.1	-6,373.4	6,508.7	6,497.2	11.49	566.466	
6,100.0	6,081.4	6,034.1	6,032.5	6.4	7.6	96.78	-1,156.7	-6,373.2	6,511.0	6,499.4	11.62	560.231	
6,200.0	6,180.8	6,134.1	6,132.0	6.5	7.6	96.79	-1,166.3	-6,373.1	6,513.3	6,501.5	11.76	554.034	
6,300.0	6,280.3	6,234.0	6,231.5	6.6	7.5	96.80	-1,175.9	-6,372.9	6,515.6	6,503.7	11.89	547.877	
6,400.0	6,379.7	6,334.0	6,331.0	6.7	7.5	96.81	-1,185.4	-6,372.8	6,517.9	6,505.8	12.03	541.762	
6,500.0	6,479.2	6,434.0	6,430.5	6.8	7.5	96.81	-1,195.0	-6,372.6	6,520.2	6,508.0	12.17	535.690	
6,600.0	6,578.6	6,533.9	6,530.0	6.8	7.4	96.82	-1,204.6	-6,372.5	6,522.5	6,510.1	12.31	529.663	
6,700.0	6,678.1	6,633.9	6,629.5	6.9	7.4	96.83	-1,214.2	-6,372.3	6,524.7	6,512.3	12.46	523.684	
6,800.0	6,777.5	6,733.9	6,729.0	7.0	7.4	96.84	-1,223.8	-6,372.2	6,527.0	6,514.4	12.61	517.754	
6,900.0	6,877.0	6,833.8	6,828.6	7.1	7.4	96.84	-1,233.3	-6,372.0	6,529.3	6,516.6	12.76	511.874	
7,000.0	6,976.4	6,933.8	6,928.1	7.2	7.3	96.85	-1,242.9	-6,371.9	6,531.6	6,518.7	12.91	506.045	
7,100.0	7,075.9	7,033.8	7,027.6	7.3	7.3	96.86	-1,252.5	-6,371.7	6,533.9	6,520.8	13.06	500.270	
7,200.0	7,175.3	7,133.8	7,127.1	7.4	7.3	96.87	-1,262.1	-6,371.6	6,536.2	6,523.0	13.22	494.548	
7,300.0	7,274.8	7,233.7	7,226.6	7.5	7.3	96.87	-1,271.7	-6,371.4	6,538.5	6,525.1	13.37	488.882	
7,400.0	7,374.3	7,333.7	7,326.1	7.6	7.3	96.88	-1,281.2	-6,371.3	6,540.8	6,527.2	13.53	483.272	
7,500.0	7,473.7	7,433.7	7,425.6	7.7	7.3	96.89	-1,290.8	-6,371.1	6,543.1	6,529.4	13.70	477.719	
7,580.8	7,554.1	7,514.5	7,506.1	7.7	7.3	96.89	-1,298.6	-6,371.0	6,544.9	6,531.1	13.79	474.510	
7,600.0	7,573.1	7,533.6	7,525.1	7.7	7.3	78.61	-1,300.4	-6,371.0	6,545.0	6,531.2	13.81	474.010	
7,625.0	7,597.9	7,558.6	7,550.0	7.7	7.3	62.93	-1,302.8	-6,370.9	6,544.1	6,530.2	13.83	473.212	
7,650.0	7,622.5	7,583.5	7,574.7	7.7	7.3	53.59	-1,305.2	-6,370.9	6,541.9	6,528.1	13.85	472.236	
7,675.0	7,646.9	7,608.2	7,599.3	7.7	7.3	47.77	-1,307.5	-6,370.9	6,538.6	6,524.7	13.88	471.089	
7,700.0	7,670.9	7,632.6	7,623.7	7.7	7.3	43.96	-1,309.9	-6,370.8	6,534.0	6,520.1	13.91	469.771	
7,725.0	7,694.7	7,656.8	7,647.7	7.8	7.3	41.39	-1,312.2	-6,370.8	6,528.3	6,514.4	13.94	468.289	
7,750.0	7,718.0	7,680.6	7,671.4	7.8	7.3	39.63	-1,314.5	-6,370.7	6,521.5	6,507.5	13.98	466.646	
7,775.0	7,740.8	7,704.0	7,694.7	7.8	7.3	38.44	-1,316.7	-6,370.7	6,513.5	6,499.5	14.01	464.844	
7,800.0	7,763.0	7,726.8	7,717.4	7.8	7.3	37.69	-1,318.9	-6,370.7	6,504.4	6,490.4	14.05	462.888	
7,825.0	7,784.7	7,749.2	7,739.6	7.8	7.3	37.27	-1,321.1	-6,370.6	6,494.2	6,480.1	14.09	460.785	
7,850.0	7,805.7	7,770.8	7,761.2	7.9	7.3	37.14	-1,323.1	-6,370.6	6,483.0	6,468.9	14.14	458.545	
7,875.0	7,825.9	7,791.9	7,782.1	7.9	7.3	37.27	-1,325.2	-6,370.6	6,470.7	6,456.5	14.18	456.176	
7,900.0	7,845.4	7,812.1	7,802.3	7.9	7.3	37.62	-1,327.1	-6,370.5	6,457.5	6,443.2	14.23	453.685	
7,925.0	7,864.0	7,831.6	7,821.7	8.0	7.3	38.19	-1,329.0	-6,370.5	6,443.3	6,429.0	14.28	451.084	
7,950.0	7,881.7	7,850.2	7,840.3	8.0	7.3	38.99	-1,330.7	-6,370.5	6,428.2	6,413.8	14.34	448.387	
7,975.0	7,898.5	7,868.0	7,857.9	8.1	7.3	40.01	-1,332.4	-6,370.5	6,412.2	6,397.8	14.39	445.609	
8,000.0	7,914.4	7,884.8	7,874.6	8.1	7.3	41.27	-1,334.1	-6,370.4	6,395.4	6,380.9	14.44	442.762	
8,025.0	7,929.2	7,900.6	7,890.4	8.1	7.3	42.79	-1,335.6	-6,370.4	6,377.8	6,363.3	14.50	439.863	
8,050.0	7,942.9	7,915.3	7,905.1	8.2	7.3	44.58	-1,337.0	-6,370.4	6,359.4	6,344.9	14.56	436.924	
8,075.0	7,955.5	7,929.0	7,918.7	8.2	7.3	46.69	-1,338.3	-6,370.4	6,340.4	6,325.8	14.61	433.963	
8,100.0	7,967.0	7,941.6	7,931.2	8.3	7.3	49.13	-1,339.5	-6,370.4	6,320.8	6,306.2	14.67	430.996	
8,125.0	7,977.3	7,953.0	7,942.6	8.3	7.3	51.96	-1,340.6	-6,370.3	6,300.6	6,285.9	14.72	428.037	
8,150.0	7,986.4	7,963.3	7,952.8	8.4	7.3	55.20	-1,341.6	-6,370.3	6,279.9	6,265.2	14.77	425.101	
8,175.0	7,994.3	7,972.3	7,961.8	8.5	7.3	58.91	-1,342.4	-6,370.3	6,258.8	6,244.0	14.82	422.201	
8,200.0	8,001.0	7,980.2	7,969.6	8.5	7.3	63.11	-1,343.2	-6,370.3	6,237.3	6,222.4	14.87	419.349	
8,225.0	8,006.3	7,986.7	7,976.1	8.6	7.3	67.83	-1,343.8	-6,370.3	6,215.4	6,200.5	14.92	416.556	
8,250.0	8,010.4	7,992.0	7,981.4	8.7	7.3	73.05	-1,344.3	-6,370.3	6,193.2	6,178.3	14.97	413.831	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #702H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8697-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,275.0	8,013.3	7,996.0	7,985.4	8.8	7.3	78.75	-1,344.7	-6,370.3	6,170.9	6,155.8	15.01	411.183	
8,300.0	8,014.8	7,998.7	7,988.0	8.9	7.3	84.82	-1,345.0	-6,370.3	6,148.3	6,133.3	15.05	408.618	
8,320.6	8,015.1	8,000.0	7,989.3	9.0	7.3	90.02	-1,345.1	-6,370.3	6,129.7	6,114.6	15.08	406.563	
8,400.0	8,014.4	8,003.0	7,992.3	9.5	7.3	90.11	-1,345.4	-6,370.3	6,057.5	6,042.3	15.19	398.679	
8,500.0	8,013.6	8,006.5	7,995.8	10.1	7.3	90.23	-1,345.7	-6,370.3	5,965.5	5,950.1	15.36	388.404	
8,600.0	8,012.7	8,009.7	7,999.0	10.8	7.3	90.37	-1,346.0	-6,370.2	5,872.4	5,856.9	15.54	377.960	
8,700.0	8,011.9	8,012.6	8,001.9	11.5	7.3	90.52	-1,346.3	-6,370.2	5,778.3	5,762.6	15.72	367.506	
8,800.0	8,011.1	8,015.2	8,004.4	12.4	7.3	90.69	-1,346.6	-6,370.2	5,683.3	5,667.4	15.91	357.156	
8,900.0	8,010.2	8,017.4	8,006.7	13.2	7.3	90.88	-1,346.8	-6,370.2	5,587.4	5,571.3	16.10	347.006	
9,000.0	8,009.4	8,019.4	8,008.6	14.1	7.3	91.11	-1,347.0	-6,370.2	5,490.6	5,474.3	16.29	337.132	
9,100.0	8,008.5	8,021.0	8,010.3	15.0	7.3	91.40	-1,347.1	-6,370.2	5,393.2	5,376.7	16.46	327.594	
9,200.0	8,007.7	8,022.3	8,011.6	15.9	7.3	91.76	-1,347.2	-6,370.2	5,295.1	5,278.4	16.63	318.438	
9,300.0	8,006.8	8,023.3	8,012.5	16.8	7.3	92.27	-1,347.3	-6,370.2	5,196.4	5,179.6	16.78	309.698	
9,400.0	8,006.0	8,024.0	8,013.2	17.7	7.3	93.03	-1,347.4	-6,370.2	5,097.2	5,080.3	16.91	301.398	
9,500.0	8,005.1	8,024.3	8,013.5	18.7	7.3	94.36	-1,347.4	-6,370.2	4,997.7	4,980.7	17.02	293.555	
9,600.0	8,004.3	8,024.3	8,013.5	19.6	7.3	97.49	-1,347.4	-6,370.2	4,897.9	4,880.8	17.12	286.178	
9,700.0	8,003.5	8,023.9	8,013.2	20.6	7.3	114.72	-1,347.4	-6,370.2	4,798.0	4,780.8	17.18	279.270	
9,800.0	8,002.7	8,023.3	8,012.5	21.6	7.3	-106.35	-1,347.3	-6,370.2	4,698.0	4,680.8	17.22	272.831	
9,815.2	8,002.5	8,023.1	8,012.4	21.7	7.3	-103.13	-1,347.3	-6,370.2	4,682.8	4,665.6	17.22	271.892	
9,900.0	8,001.8	8,022.4	8,011.6	22.5	7.3	-102.82	-1,347.2	-6,370.2	4,598.0	4,580.8	17.24	266.684	
10,000.0	8,001.0	8,021.5	8,010.8	23.5	7.3	-102.45	-1,347.2	-6,370.2	4,498.1	4,480.8	17.27	260.530	
10,100.0	8,000.2	8,020.7	8,009.9	24.5	7.3	-102.07	-1,347.1	-6,370.2	4,398.1	4,380.8	17.29	254.370	
10,200.0	7,999.4	8,019.8	8,009.0	25.5	7.3	-101.69	-1,347.0	-6,370.2	4,298.2	4,280.9	17.32	248.205	
10,300.0	7,998.6	8,018.9	8,008.2	26.5	7.3	-101.32	-1,346.9	-6,370.2	4,198.2	4,180.9	17.35	242.038	
10,400.0	7,997.8	8,018.0	8,007.3	27.6	7.3	-100.94	-1,346.8	-6,370.2	4,098.3	4,080.9	17.37	235.872	
10,500.0	7,996.9	8,017.2	8,006.4	28.6	7.3	-100.56	-1,346.7	-6,370.2	3,998.3	3,980.9	17.41	229.708	
10,600.0	7,996.1	8,016.3	8,005.5	29.6	7.3	-100.18	-1,346.7	-6,370.2	3,898.4	3,880.9	17.44	223.550	
10,700.0	7,995.3	8,015.4	8,004.7	30.7	7.3	-99.79	-1,346.6	-6,370.2	3,798.4	3,780.9	17.47	217.399	
10,800.0	7,994.5	8,014.5	8,003.8	31.7	7.3	-99.41	-1,346.5	-6,370.2	3,698.5	3,681.0	17.51	211.257	
10,900.0	7,993.7	8,013.7	8,002.9	32.8	7.3	-99.02	-1,346.4	-6,370.2	3,598.5	3,581.0	17.54	205.128	
11,000.0	7,992.8	8,012.8	8,002.1	33.8	7.3	-98.64	-1,346.3	-6,370.2	3,498.6	3,481.0	17.58	199.013	
11,100.0	7,992.0	8,011.9	8,001.2	34.9	7.3	-98.25	-1,346.2	-6,370.2	3,398.7	3,381.0	17.62	192.913	
11,200.0	7,991.2	8,011.0	8,000.3	35.9	7.3	-97.86	-1,346.2	-6,370.2	3,298.7	3,281.1	17.66	186.831	
11,300.0	7,990.4	8,010.2	7,999.5	37.0	7.3	-97.47	-1,346.1	-6,370.2	3,198.8	3,181.1	17.70	180.768	
11,400.0	7,989.6	8,009.3	7,998.6	38.1	7.3	-97.07	-1,346.0	-6,370.2	3,098.9	3,081.1	17.74	174.727	
11,500.0	7,988.8	8,008.4	7,997.7	39.1	7.3	-96.68	-1,345.9	-6,370.3	2,999.0	2,981.2	17.78	168.708	
11,600.0	7,987.9	8,007.5	7,996.8	40.2	7.3	-96.28	-1,345.8	-6,370.3	2,899.1	2,881.2	17.82	162.713	
11,700.0	7,987.1	8,006.7	7,996.0	41.3	7.3	-95.89	-1,345.7	-6,370.3	2,799.1	2,781.3	17.86	156.742	
11,800.0	7,986.3	8,005.8	7,995.1	42.4	7.3	-95.49	-1,345.7	-6,370.3	2,699.2	2,681.4	17.90	150.799	
11,900.0	7,985.5	8,004.9	7,994.2	43.4	7.3	-95.09	-1,345.6	-6,370.3	2,599.4	2,581.4	17.94	144.882	
12,000.0	7,984.7	8,004.0	7,993.4	44.5	7.3	-94.69	-1,345.5	-6,370.3	2,499.5	2,481.5	17.98	138.993	
12,100.0	7,983.9	8,003.2	7,992.5	45.6	7.3	-94.29	-1,345.4	-6,370.3	2,399.6	2,381.6	18.02	133.132	
12,200.0	7,983.0	8,002.3	7,991.6	46.7	7.3	-93.89	-1,345.3	-6,370.3	2,299.7	2,281.7	18.07	127.300	
12,300.0	7,982.2	8,001.4	7,990.8	47.8	7.3	-93.49	-1,345.2	-6,370.3	2,199.9	2,181.8	18.11	121.496	
12,400.0	7,981.4	8,000.5	7,989.9	48.9	7.3	-93.09	-1,345.2	-6,370.3	2,100.1	2,081.9	18.15	115.720	
12,500.0	7,980.6	7,999.7	7,989.0	50.0	7.3	-92.68	-1,345.1	-6,370.3	2,000.2	1,982.0	18.19	109.971	
12,600.0	7,979.8	7,998.8	7,988.1	51.0	7.3	-92.28	-1,345.0	-6,370.3	1,900.4	1,882.2	18.23	104.249	
12,700.0	7,979.0	7,997.9	7,987.3	52.1	7.3	-91.87	-1,344.9	-6,370.3	1,800.6	1,782.4	18.27	98.550	
12,800.0	7,978.1	7,997.1	7,986.4	53.2	7.3	-91.47	-1,344.8	-6,370.3	1,700.9	1,682.6	18.31	92.872	
12,900.0	7,977.3	7,996.2	7,985.5	54.3	7.3	-91.06	-1,344.7	-6,370.3	1,601.2	1,582.8	18.36	87.212	
13,000.0	7,976.5	7,995.3	7,984.7	55.4	7.3	-90.65	-1,344.6	-6,370.3	1,501.5	1,483.1	18.41	81.563	
13,100.0	7,975.7	7,994.4	7,983.8	56.5	7.3	-90.24	-1,344.6	-6,370.3	1,401.8	1,383.4	18.46	75.920	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #702H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8697-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,171.4	7,975.1	7,993.8	7,983.2	57.3	7.3	-89.95	-1,344.5	-6,370.3	1,330.7	1,312.2	18.51	71.891	
13,200.0	7,974.9	7,993.5	7,982.9	57.6	7.3	-89.85	-1,344.5	-6,370.3	1,302.3	1,283.7	18.53	70.278	
13,245.7	7,974.5	7,993.1	7,982.4	58.1	7.3	-89.69	-1,344.4	-6,370.3	1,256.8	1,238.3	18.56	67.708	
13,300.0	7,974.0	7,992.4	7,981.8	58.7	7.3	-89.47	-1,344.4	-6,370.3	1,203.0	1,184.4	18.61	64.645	
13,400.0	7,973.2	7,991.3	7,980.7	59.8	7.3	-89.05	-1,344.3	-6,370.3	1,103.9	1,085.2	18.73	58.923	
13,500.0	7,972.4	7,990.2	7,979.6	60.9	7.3	-88.64	-1,344.2	-6,370.3	1,005.0	986.1	18.93	53.077	
13,600.0	7,971.6	7,989.1	7,978.5	62.0	7.3	-88.22	-1,344.1	-6,370.3	906.3	887.1	19.25	47.071	
13,700.0	7,970.8	7,987.9	7,977.3	63.1	7.3	-87.81	-1,343.9	-6,370.3	808.0	788.2	19.77	40.872	
13,800.0	7,969.9	7,986.8	7,976.2	64.2	7.3	-87.39	-1,343.8	-6,370.3	710.1	689.5	20.60	34.472	
13,900.0	7,969.1	7,985.7	7,975.1	65.3	7.3	-86.98	-1,343.7	-6,370.3	612.9	590.9	21.95	27.917	
14,000.0	7,968.3	7,984.6	7,974.0	66.4	7.3	-86.56	-1,343.6	-6,370.3	516.7	492.5	24.19	21.365	
14,100.0	7,967.5	7,983.4	7,972.9	67.5	7.3	-86.14	-1,343.5	-6,370.3	422.4	394.5	27.92	15.126	
14,200.0	7,966.7	7,982.3	7,971.7	68.6	7.3	-85.73	-1,343.4	-6,370.3	331.4	297.0	34.33	9.652	
14,300.0	7,965.8	7,981.2	7,970.6	69.7	7.3	-85.31	-1,343.3	-6,370.3	247.4	201.8	45.54	5.432	
14,400.0	7,965.0	7,980.1	7,969.5	70.8	7.3	-84.89	-1,343.2	-6,370.3	180.5	116.7	63.75	2.831	
14,493.1	7,964.3	7,979.0	7,968.4	71.8	7.3	-84.50	-1,343.1	-6,370.3	154.6	76.1	78.48	1.970 Advise and Monitor, CC	
14,500.0	7,964.2	7,978.9	7,968.4	71.9	7.3	-84.47	-1,343.1	-6,370.3	154.8	76.0	78.82	1.964 Advise and Monitor, ES, SF	
14,600.0	7,963.4	7,977.8	7,967.2	73.0	7.3	-84.06	-1,343.0	-6,370.3	188.0	116.7	71.30	2.637	
14,700.0	7,962.6	7,976.7	7,966.1	74.1	7.3	-83.64	-1,342.9	-6,370.3	258.3	200.3	57.97	4.456	
14,800.0	7,961.7	7,975.6	7,965.0	75.2	7.3	-83.22	-1,342.8	-6,370.3	343.6	294.9	48.77	7.046	
14,900.0	7,960.9	7,974.4	7,963.9	76.3	7.3	-82.81	-1,342.6	-6,370.3	435.3	392.3	42.93	10.138	
15,000.0	7,960.1	7,973.3	7,962.8	77.4	7.3	-82.39	-1,342.5	-6,370.3	529.9	490.8	39.09	13.556	
15,100.0	7,959.3	7,972.2	7,961.6	78.5	7.3	-81.97	-1,342.4	-6,370.3	626.3	589.8	36.44	17.184	
15,200.0	7,958.5	7,971.1	7,960.5	79.6	7.3	-81.56	-1,342.3	-6,370.3	723.6	689.0	34.54	20.946	
15,300.0	7,957.6	7,969.9	7,959.4	80.7	7.3	-81.14	-1,342.2	-6,370.3	821.5	788.4	33.14	24.792	
15,400.0	7,956.8	7,968.8	7,958.3	81.8	7.3	-80.72	-1,342.1	-6,370.3	919.9	887.9	32.07	28.687	
15,500.0	7,956.0	7,967.7	7,957.2	82.9	7.3	-80.31	-1,342.0	-6,370.3	1,018.7	987.4	31.24	32.608	
15,600.0	7,955.2	7,966.6	7,956.0	84.0	7.3	-79.89	-1,341.9	-6,370.3	1,117.6	1,087.0	30.59	36.538	
15,700.0	7,954.4	7,965.4	7,954.9	85.1	7.3	-79.48	-1,341.8	-6,370.3	1,216.7	1,186.6	30.07	40.465	
15,800.0	7,953.5	7,964.3	7,953.8	86.2	7.3	-79.07	-1,341.7	-6,370.3	1,315.9	1,286.3	29.65	44.381	
15,900.0	7,952.7	7,963.2	7,952.7	87.3	7.3	-78.65	-1,341.6	-6,370.3	1,415.3	1,386.0	29.31	48.279	
16,000.0	7,951.9	7,962.0	7,951.6	88.4	7.3	-78.24	-1,341.5	-6,370.3	1,514.7	1,485.7	29.04	52.155	
16,100.0	7,951.1	7,960.9	7,950.4	89.5	7.3	-77.83	-1,341.4	-6,370.3	1,614.2	1,585.4	28.82	56.006	
16,200.0	7,950.3	7,959.8	7,949.3	90.6	7.3	-77.42	-1,341.2	-6,370.3	1,713.8	1,685.2	28.64	59.829	
16,300.0	7,949.4	7,958.7	7,948.2	91.8	7.3	-77.01	-1,341.1	-6,370.3	1,813.4	1,784.9	28.50	63.622	
16,400.0	7,948.6	7,957.5	7,947.1	92.9	7.3	-76.60	-1,341.0	-6,370.3	1,913.1	1,884.7	28.39	67.383	
16,500.0	7,947.8	7,956.4	7,946.0	94.0	7.3	-76.19	-1,340.9	-6,370.3	2,012.7	1,984.4	28.30	71.112	
16,600.0	7,947.0	7,955.3	7,944.8	95.1	7.3	-75.78	-1,340.8	-6,370.3	2,112.4	2,084.2	28.24	74.808	
16,700.0	7,946.2	7,954.2	7,943.7	96.2	7.3	-75.37	-1,340.7	-6,370.3	2,212.2	2,184.0	28.19	78.469	
16,800.0	7,945.3	7,953.0	7,942.6	97.3	7.3	-74.97	-1,340.6	-6,370.3	2,311.9	2,283.8	28.16	82.097	
16,900.0	7,944.5	7,951.9	7,941.5	98.4	7.3	-74.56	-1,340.5	-6,370.3	2,411.7	2,383.6	28.14	85.690	
17,000.0	7,943.7	7,950.8	7,940.4	99.5	7.3	-74.16	-1,340.4	-6,370.3	2,511.5	2,483.4	28.14	89.249	
17,100.0	7,942.9	7,949.7	7,939.2	100.6	7.3	-73.75	-1,340.3	-6,370.3	2,611.3	2,583.2	28.15	92.773	
17,200.0	7,942.1	7,948.5	7,938.1	101.7	7.3	-73.35	-1,340.2	-6,370.3	2,711.2	2,683.0	28.16	96.262	
17,300.0	7,941.2	7,947.4	7,937.0	102.8	7.3	-72.95	-1,340.1	-6,370.3	2,811.0	2,782.8	28.19	99.716	
17,400.0	7,940.4	7,946.3	7,935.9	103.9	7.3	-72.55	-1,340.0	-6,370.3	2,910.8	2,882.6	28.22	103.137	
17,500.0	7,939.6	7,945.2	7,934.7	105.1	7.3	-72.15	-1,339.8	-6,370.3	3,010.7	2,982.4	28.26	106.522	
17,600.0	7,938.8	7,944.0	7,933.6	106.2	7.3	-71.76	-1,339.7	-6,370.3	3,110.6	3,082.3	28.31	109.874	
17,700.0	7,938.0	7,942.9	7,932.5	107.3	7.3	-71.36	-1,339.6	-6,370.3	3,210.4	3,182.1	28.36	113.192	
17,800.0	7,937.1	7,941.8	7,931.4	108.4	7.3	-70.96	-1,339.5	-6,370.4	3,310.3	3,281.9	28.42	116.476	
17,900.0	7,936.3	7,940.7	7,930.3	109.5	7.3	-70.57	-1,339.4	-6,370.4	3,410.2	3,381.7	28.48	119.726	
17,996.2	7,935.5	7,939.6	7,929.2	110.6	7.3	-70.19	-1,339.3	-6,370.4	3,506.3	3,477.8	28.55	122.822	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #703H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	19.0	19.0	4.2	3.0	-99.90	-1,118.1	-6,403.8	6,500.7				
100.0	100.0	119.0	119.0	4.2	3.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,493.4	7.25	896.771	
200.0	200.0	219.0	219.0	4.2	3.1	-99.90	-1,118.1	-6,403.8	6,500.7	6,493.4	7.29	891.217	
300.0	300.0	319.0	319.0	4.3	3.1	-99.90	-1,118.1	-6,403.8	6,500.7	6,493.3	7.38	880.706	
400.0	400.0	419.0	419.0	4.3	3.3	-99.90	-1,118.1	-6,403.8	6,500.7	6,493.1	7.51	865.955	
500.0	500.0	519.0	519.0	4.3	3.4	-99.90	-1,118.1	-6,403.8	6,500.7	6,493.0	7.67	847.838	
600.0	600.0	619.0	619.0	4.3	3.6	-99.90	-1,118.1	-6,403.8	6,500.7	6,492.8	7.86	827.260	
700.0	700.0	719.0	719.0	4.3	3.8	-99.90	-1,118.1	-6,403.8	6,500.7	6,492.6	8.07	805.047	
800.0	800.0	819.0	819.0	4.4	4.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,492.3	8.31	781.901	
900.0	900.0	919.0	919.0	4.4	4.3	-99.90	-1,118.1	-6,403.8	6,500.7	6,492.1	8.57	758.381	
1,000.0	1,000.0	1,019.0	1,019.0	4.4	4.5	-99.90	-1,118.1	-6,403.8	6,500.7	6,491.8	8.85	734.909	
1,100.0	1,100.0	1,119.0	1,119.0	4.5	4.8	-99.90	-1,118.1	-6,403.8	6,500.7	6,491.5	9.13	711.792	
1,200.0	1,200.0	1,219.0	1,219.0	4.5	5.1	-99.90	-1,118.1	-6,403.8	6,500.7	6,491.2	9.43	689.243	
1,300.0	1,300.0	1,319.0	1,319.0	4.5	5.4	-99.90	-1,118.1	-6,403.8	6,500.7	6,490.9	9.74	667.402	
1,400.0	1,400.0	1,419.0	1,419.0	4.6	5.7	-99.90	-1,118.1	-6,403.8	6,500.7	6,490.6	10.06	646.356	
1,500.0	1,500.0	1,519.0	1,519.0	4.6	6.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,490.3	10.38	626.151	
1,600.0	1,600.0	1,619.0	1,619.0	4.7	6.3	-99.90	-1,118.1	-6,403.8	6,500.7	6,489.9	10.71	606.804	
1,700.0	1,700.0	1,719.0	1,719.0	4.8	6.6	-99.90	-1,118.1	-6,403.8	6,500.7	6,489.6	11.05	588.314	
1,800.0	1,800.0	1,819.0	1,819.0	4.8	7.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,489.3	11.39	570.664	
1,900.0	1,900.0	1,919.0	1,919.0	4.9	7.3	-99.90	-1,118.1	-6,403.8	6,500.7	6,488.9	11.74	553.829	
2,000.0	2,000.0	2,019.0	2,019.0	5.0	7.6	-99.90	-1,118.1	-6,403.8	6,500.7	6,488.6	12.09	537.778	
2,100.0	2,100.0	2,119.0	2,119.0	5.0	8.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,488.2	12.44	522.477	
2,200.0	2,200.0	2,219.0	2,219.0	5.1	8.3	-99.90	-1,118.1	-6,403.8	6,500.7	6,487.9	12.80	507.889	
2,300.0	2,300.0	2,319.0	2,319.0	5.2	8.6	-99.90	-1,118.1	-6,403.8	6,500.7	6,487.5	13.16	493.979	
2,400.0	2,400.0	2,419.0	2,419.0	5.2	9.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,487.1	13.52	480.711	
2,408.8	2,408.8	2,427.8	2,427.8	5.2	9.0	-99.90	-1,118.1	-6,403.8	6,500.7	6,487.1	13.56	479.566	
2,500.0	2,500.0	2,500.0	2,500.0	5.3	9.2	-99.90	-1,118.1	-6,403.8	6,500.7	6,486.9	13.82	470.234	
2,600.0	2,600.0	2,543.5	2,543.5	5.3	9.4	94.08	-1,118.3	-6,404.0	6,501.5	6,487.5	13.99	464.652	
2,700.0	2,699.8	2,600.0	2,600.0	5.3	9.6	94.06	-1,119.4	-6,404.9	6,503.6	6,489.4	14.20	457.929	
2,800.0	2,799.5	2,600.0	2,600.0	5.3	9.6	94.00	-1,119.4	-6,404.9	6,506.8	6,492.6	14.23	457.365	
2,900.0	2,898.9	2,652.9	2,652.8	5.3	9.7	94.04	-1,121.2	-6,406.4	6,511.1	6,496.7	14.42	451.584	
3,000.0	2,998.4	2,700.0	2,699.8	5.3	9.9	94.06	-1,123.4	-6,408.3	6,516.4	6,501.8	14.59	446.559	
3,100.0	3,097.8	2,770.5	2,770.2	5.2	10.1	94.10	-1,127.2	-6,411.4	6,522.5	6,507.6	14.84	439.391	
3,200.0	3,197.3	2,870.2	2,869.6	5.2	10.4	94.15	-1,132.5	-6,415.9	6,528.5	6,513.4	15.19	429.694	
3,300.0	3,296.7	2,969.8	2,969.0	5.2	10.7	94.20	-1,137.9	-6,420.4	6,534.7	6,519.1	15.55	420.310	
3,400.0	3,396.2	3,069.4	3,068.4	5.2	11.0	94.25	-1,143.2	-6,424.8	6,540.8	6,524.9	15.91	411.239	
3,500.0	3,495.6	3,169.1	3,167.8	5.2	11.4	94.31	-1,148.5	-6,429.3	6,546.9	6,530.6	16.27	402.470	
3,600.0	3,595.1	3,268.7	3,267.2	5.2	11.7	94.36	-1,153.8	-6,433.8	6,553.0	6,536.4	16.63	393.994	
3,700.0	3,694.5	3,368.3	3,366.6	5.2	12.0	94.41	-1,159.1	-6,438.2	6,559.1	6,542.1	17.00	385.802	
3,800.0	3,794.0	3,468.0	3,466.0	5.2	12.4	94.46	-1,164.5	-6,442.7	6,565.2	6,547.9	17.37	377.884	
3,900.0	3,893.4	3,567.6	3,565.3	5.2	12.7	94.51	-1,169.8	-6,447.2	6,571.4	6,553.6	17.75	370.231	
4,000.0	3,992.9	3,667.3	3,664.7	5.3	13.0	94.56	-1,175.1	-6,451.6	6,577.5	6,559.4	18.13	362.833	
4,100.0	4,092.3	3,766.9	3,764.1	5.3	13.4	94.61	-1,180.4	-6,456.1	6,583.7	6,565.1	18.51	355.680	
4,200.0	4,191.8	3,866.5	3,863.5	5.3	13.7	94.67	-1,185.8	-6,460.6	6,589.8	6,570.9	18.89	348.762	
4,300.0	4,291.2	3,966.2	3,962.9	5.3	14.0	94.72	-1,191.1	-6,465.0	6,596.0	6,576.7	19.28	342.071	
4,400.0	4,390.7	4,065.8	4,062.3	5.4	14.4	94.77	-1,196.4	-6,469.5	6,602.1	6,582.4	19.67	335.597	
4,500.0	4,490.1	4,165.5	4,161.7	5.4	14.7	94.82	-1,201.7	-6,474.0	6,608.3	6,588.2	20.07	329.332	
4,600.0	4,589.6	4,265.1	4,261.1	5.5	15.0	94.87	-1,207.1	-6,478.4	6,614.5	6,594.0	20.46	323.267	
4,700.0	4,689.0	4,364.7	4,360.5	5.5	15.4	94.92	-1,212.4	-6,482.9	6,620.6	6,599.8	20.86	317.394	
4,800.0	4,788.5	4,464.4	4,459.9	5.6	15.7	94.97	-1,217.7	-6,487.4	6,626.8	6,605.5	21.26	311.705	
4,900.0	4,887.9	4,564.0	4,559.3	5.6	16.1	95.02	-1,223.0	-6,491.8	6,633.0	6,611.3	21.66	306.194	
5,000.0	4,987.4	4,663.6	4,658.7	5.7	16.4	95.07	-1,228.4	-6,496.3	6,639.2	6,617.1	22.07	300.852	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #703H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	4,763.3	4,758.1	5.7	16.8	95.12	-1,233.7	-6,500.8	6,645.4	6,622.9	22.48	295.674	
5,200.0	5,186.3	4,862.9	4,857.5	5.8	17.1	95.17	-1,239.0	-6,505.2	6,651.6	6,628.7	22.89	290.652	
5,300.0	5,285.8	4,962.6	4,956.9	5.9	17.5	95.22	-1,244.3	-6,509.7	6,657.8	6,634.5	23.30	285.780	
5,400.0	5,385.2	5,062.2	5,056.3	5.9	17.8	95.27	-1,249.7	-6,514.2	6,664.0	6,640.3	23.71	281.053	
5,500.0	5,484.7	5,161.8	5,155.7	6.0	18.2	95.32	-1,255.0	-6,518.7	6,670.2	6,646.1	24.13	276.464	
5,600.0	5,584.1	5,261.5	5,255.1	6.1	18.5	95.37	-1,260.3	-6,523.1	6,676.4	6,651.9	24.54	272.009	
5,700.0	5,683.6	5,361.1	5,354.5	6.1	18.8	95.42	-1,265.6	-6,527.6	6,682.7	6,657.7	24.96	267.681	
5,800.0	5,783.0	5,460.8	5,453.9	6.2	19.2	95.47	-1,271.0	-6,532.1	6,688.9	6,663.5	25.39	263.477	
5,900.0	5,882.5	5,560.4	5,553.3	6.3	19.5	95.52	-1,276.3	-6,536.5	6,695.1	6,669.3	25.81	259.391	
6,000.0	5,981.9	5,660.0	5,652.7	6.4	19.9	95.57	-1,281.6	-6,541.0	6,701.4	6,675.1	26.24	255.419	
6,100.0	6,081.4	5,759.7	5,752.1	6.4	20.2	95.62	-1,286.9	-6,545.5	6,707.6	6,680.9	26.66	251.557	
6,200.0	6,180.8	5,859.3	5,851.4	6.5	20.6	95.67	-1,292.3	-6,549.9	6,713.9	6,686.8	27.09	247.800	
6,300.0	6,280.3	5,958.9	5,950.8	6.6	21.0	95.71	-1,297.6	-6,554.4	6,720.1	6,692.6	27.53	244.144	
6,400.0	6,379.7	6,058.6	6,050.2	6.7	21.3	95.76	-1,302.9	-6,558.9	6,726.4	6,698.4	27.96	240.587	
6,500.0	6,479.2	6,158.2	6,149.6	6.8	21.7	95.81	-1,308.2	-6,563.3	6,732.6	6,704.3	28.39	237.124	
6,600.0	6,578.6	6,257.9	6,249.0	6.8	22.0	95.86	-1,313.6	-6,567.8	6,738.9	6,710.1	28.83	233.751	
6,700.0	6,678.1	6,357.5	6,348.4	6.9	22.4	95.91	-1,318.9	-6,572.3	6,745.2	6,715.9	29.27	230.466	
6,800.0	6,777.5	6,457.1	6,447.8	7.0	22.7	95.96	-1,324.2	-6,576.7	6,751.5	6,721.8	29.71	227.266	
6,900.0	6,877.0	6,556.8	6,547.2	7.1	23.1	96.01	-1,329.5	-6,581.2	6,757.8	6,727.6	30.15	224.147	
7,000.0	6,976.4	6,656.4	6,646.6	7.2	23.4	96.06	-1,334.9	-6,585.7	6,764.0	6,733.5	30.59	221.107	
7,100.0	7,075.9	6,756.1	6,746.0	7.3	23.8	96.10	-1,340.2	-6,590.1	6,770.3	6,739.3	31.04	218.142	
7,200.0	7,175.3	6,855.7	6,845.4	7.4	24.1	96.15	-1,345.5	-6,594.6	6,776.6	6,745.2	31.48	215.251	
7,300.0	7,274.8	6,955.3	6,944.8	7.5	24.5	96.20	-1,350.8	-6,599.1	6,782.9	6,751.0	31.93	212.431	
7,400.0	7,374.3	7,055.0	7,044.2	7.6	24.8	96.25	-1,356.2	-6,603.5	6,789.3	6,756.9	32.38	209.679	
7,500.0	7,473.7	7,154.6	7,143.6	7.7	25.2	96.30	-1,361.5	-6,608.0	6,795.6	6,762.7	32.83	206.994	
7,580.8	7,554.1	7,235.2	7,223.9	7.7	25.5	96.33	-1,366.8	-6,611.6	6,800.7	6,767.5	33.16	205.070	
7,600.0	7,573.1	7,254.3	7,243.0	7.7	25.5	78.02	-1,366.8	-6,612.5	6,801.5	6,768.3	33.23	204.668	
7,625.0	7,597.9	7,279.2	7,267.9	7.7	25.6	62.31	-1,368.1	-6,613.6	6,801.6	6,768.3	33.32	204.105	
7,650.0	7,622.5	7,304.0	7,292.6	7.7	25.7	52.92	-1,369.5	-6,614.7	6,800.4	6,767.0	33.42	203.495	
7,675.0	7,646.9	7,328.7	7,317.3	7.7	25.8	47.06	-1,370.8	-6,615.8	6,798.1	6,764.6	33.51	202.840	
7,700.0	7,670.9	7,353.2	7,341.7	7.7	25.9	43.21	-1,372.1	-6,616.9	6,794.5	6,760.9	33.61	202.142	
7,725.0	7,694.7	7,377.4	7,365.8	7.8	26.0	40.59	-1,373.4	-6,618.0	6,789.8	6,756.1	33.71	201.402	
7,750.0	7,718.0	7,401.3	7,389.7	7.8	26.1	38.77	-1,374.7	-6,619.1	6,783.9	6,750.1	33.81	200.624	
7,775.0	7,740.8	7,424.7	7,413.1	7.8	26.2	37.53	-1,375.9	-6,620.1	6,776.8	6,742.9	33.92	199.808	
7,800.0	7,763.0	7,447.7	7,436.0	7.8	26.2	36.71	-1,377.1	-6,621.1	6,768.6	6,734.6	34.02	198.956	
7,825.0	7,784.7	7,470.2	7,458.4	7.8	26.3	36.22	-1,378.3	-6,622.2	6,759.3	6,725.2	34.13	198.073	
7,850.0	7,805.7	7,492.0	7,480.2	7.9	26.4	36.01	-1,379.5	-6,623.1	6,748.9	6,714.7	34.23	197.158	
7,875.0	7,825.9	7,513.2	7,501.4	7.9	26.5	36.04	-1,380.6	-6,624.1	6,737.5	6,703.1	34.34	196.217	
7,900.0	7,845.4	7,533.7	7,521.8	7.9	26.5	36.30	-1,381.7	-6,625.0	6,725.0	6,690.6	34.44	195.251	
7,925.0	7,864.0	7,553.4	7,541.5	8.0	26.6	36.76	-1,382.8	-6,625.9	6,711.6	6,677.0	34.55	194.263	
7,950.0	7,881.7	7,572.3	7,560.3	8.0	26.7	37.42	-1,383.8	-6,626.7	6,697.2	6,662.5	34.65	193.257	
7,975.0	7,898.5	7,590.3	7,578.3	8.1	26.7	38.30	-1,384.8	-6,627.5	6,681.9	6,647.1	34.76	192.237	
8,000.0	7,914.4	7,607.4	7,595.3	8.1	26.8	39.39	-1,385.7	-6,628.3	6,665.7	6,630.8	34.86	191.206	
8,025.0	7,929.2	7,623.5	7,611.4	8.1	26.9	40.72	-1,386.5	-6,629.0	6,648.7	6,613.8	34.96	190.168	
8,050.0	7,942.9	7,638.6	7,626.5	8.2	26.9	42.29	-1,387.3	-6,629.7	6,631.0	6,595.9	35.06	189.127	
8,075.0	7,955.5	7,652.7	7,640.5	8.2	27.0	44.15	-1,388.1	-6,630.3	6,612.5	6,577.3	35.16	188.087	
8,100.0	7,967.0	7,665.6	7,653.4	8.3	27.0	46.32	-1,388.8	-6,630.9	6,593.3	6,558.1	35.25	187.051	
8,125.0	7,977.3	7,677.4	7,665.1	8.3	27.1	48.83	-1,389.4	-6,631.4	6,573.6	6,538.2	35.34	186.024	
8,150.0	7,986.4	7,688.1	7,675.8	8.4	27.1	51.72	-1,390.0	-6,631.9	6,553.3	6,517.8	35.42	185.010	
8,175.0	7,994.3	7,697.5	7,685.2	8.5	27.1	55.05	-1,390.5	-6,632.3	6,532.4	6,496.9	35.50	184.011	
8,200.0	8,001.0	7,705.8	7,693.4	8.5	27.2	58.85	-1,390.9	-6,632.7	6,511.1	6,475.6	35.57	183.031	
8,225.0	8,006.3	7,712.7	7,700.4	8.6	27.2	63.15	-1,391.3	-6,633.0	6,489.5	6,453.8	35.64	182.073	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #703H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,250.0	8,010.4	7,718.5	7,706.1	8.7	27.2	67.98	-1,391.6	-6,633.3	6,467.5	6,431.8	35.70	181.141	
8,275.0	8,013.3	7,722.9	7,710.5	8.8	27.2	73.34	-1,391.8	-6,633.5	6,445.2	6,409.5	35.76	180.237	
8,300.0	8,014.8	7,726.1	7,713.7	8.9	27.2	79.17	-1,392.0	-6,633.6	6,422.8	6,387.0	35.81	179.362	
8,320.6	8,015.1	7,727.7	7,715.3	9.0	27.2	84.27	-1,392.1	-6,633.7	6,404.1	6,368.3	35.84	178.664	
8,400.0	8,014.4	7,732.2	7,719.8	9.5	27.3	84.03	-1,392.3	-6,633.9	6,331.9	6,295.9	35.97	176.014	
8,500.0	8,013.6	7,737.9	7,725.4	10.1	27.3	83.68	-1,392.6	-6,634.2	6,239.8	6,203.6	36.15	172.597	
8,600.0	8,012.7	7,743.4	7,731.0	10.8	27.3	83.26	-1,392.9	-6,634.4	6,146.6	6,110.3	36.34	169.127	
8,700.0	8,011.9	7,748.8	7,736.4	11.5	27.3	82.75	-1,393.2	-6,634.6	6,052.5	6,015.9	36.54	165.634	
8,800.0	8,011.1	7,754.1	7,741.7	12.4	27.3	82.12	-1,393.5	-6,634.9	5,957.4	5,920.6	36.74	162.141	
8,900.0	8,010.2	7,759.3	7,746.8	13.2	27.4	81.33	-1,393.8	-6,635.1	5,861.4	5,824.4	36.94	158.667	
9,000.0	8,009.4	7,764.4	7,751.9	14.1	27.4	80.31	-1,394.1	-6,635.3	5,764.6	5,727.4	37.14	155.232	
9,100.0	8,008.5	7,769.3	7,756.8	15.0	27.4	78.96	-1,394.3	-6,635.6	5,667.0	5,629.7	37.32	151.848	
9,200.0	8,007.7	7,774.1	7,761.6	15.9	27.4	77.09	-1,394.6	-6,635.8	5,568.9	5,531.4	37.49	148.529	
9,300.0	8,006.8	7,778.7	7,766.2	16.8	27.4	74.36	-1,394.8	-6,636.0	5,470.2	5,432.5	37.65	145.285	
9,400.0	8,006.0	7,783.2	7,770.7	17.7	27.4	70.03	-1,395.1	-6,636.2	5,371.0	5,333.2	37.79	142.124	
9,500.0	8,005.1	7,787.6	7,775.0	18.7	27.5	62.34	-1,395.3	-6,636.4	5,271.5	5,233.6	37.91	139.053	
9,600.0	8,004.3	7,791.7	7,779.2	19.6	27.5	46.16	-1,395.5	-6,636.6	5,171.8	5,133.8	38.01	136.077	
9,700.0	8,003.5	7,795.7	7,783.2	20.6	27.5	8.85	-1,395.7	-6,636.8	5,071.9	5,033.8	38.08	133.199	
9,800.0	8,002.7	7,799.6	7,787.0	21.6	27.5	-36.69	-1,395.9	-6,636.9	4,972.0	4,933.8	38.12	130.422	
9,815.2	8,002.5	7,800.1	7,787.6	21.7	27.5	-41.45	-1,396.0	-6,636.9	4,956.8	4,918.6	38.13	130.009	
9,900.0	8,001.8	7,803.3	7,790.7	22.5	27.5	-41.94	-1,396.1	-6,637.1	4,872.1	4,834.0	38.15	127.709	
10,000.0	8,001.0	7,807.0	7,794.4	23.5	27.5	-42.54	-1,396.3	-6,637.3	4,772.2	4,734.1	38.18	124.994	
10,100.0	8,000.2	7,810.7	7,798.1	24.5	27.5	-43.15	-1,396.5	-6,637.4	4,672.4	4,634.2	38.21	122.279	
10,200.0	7,999.4	7,814.5	7,801.8	25.5	27.5	-43.76	-1,396.7	-6,637.6	4,572.5	4,534.3	38.24	119.563	
10,300.0	7,998.6	7,818.2	7,805.5	26.5	27.6	-44.40	-1,396.9	-6,637.8	4,472.7	4,434.4	38.28	116.847	
10,400.0	7,997.8	7,821.9	7,809.3	27.6	27.6	-45.04	-1,397.1	-6,637.9	4,372.8	4,334.5	38.31	114.132	
10,500.0	7,996.9	7,825.6	7,813.0	28.6	27.6	-45.70	-1,397.3	-6,638.1	4,273.0	4,234.6	38.35	111.418	
10,600.0	7,996.1	7,829.3	7,816.7	29.6	27.6	-46.37	-1,397.5	-6,638.3	4,173.1	4,134.8	38.39	108.705	
10,700.0	7,995.3	7,833.0	7,820.4	30.7	27.6	-47.06	-1,397.7	-6,638.4	4,073.3	4,034.9	38.43	105.994	
10,800.0	7,994.5	7,836.8	7,824.1	31.7	27.6	-47.76	-1,397.9	-6,638.6	3,973.5	3,935.0	38.47	103.285	
10,900.0	7,993.7	7,840.5	7,827.8	32.8	27.6	-48.47	-1,398.1	-6,638.8	3,873.7	3,835.1	38.51	100.579	
11,000.0	7,992.8	7,844.2	7,831.5	33.8	27.7	-49.20	-1,398.3	-6,638.9	3,773.8	3,735.3	38.56	97.877	
11,100.0	7,992.0	7,847.9	7,835.2	34.9	27.7	-49.94	-1,398.5	-6,639.1	3,674.0	3,635.4	38.60	95.178	
11,200.0	7,991.2	7,851.6	7,838.9	35.9	27.7	-50.70	-1,398.7	-6,639.3	3,574.2	3,535.6	38.65	92.483	
11,300.0	7,990.4	7,855.4	7,842.6	37.0	27.7	-51.47	-1,398.9	-6,639.4	3,474.4	3,435.7	38.69	89.792	
11,400.0	7,989.6	7,859.1	7,846.3	38.1	27.7	-52.26	-1,399.1	-6,639.6	3,374.6	3,335.9	38.74	87.105	
11,500.0	7,988.8	7,862.8	7,850.1	39.1	27.7	-53.06	-1,399.3	-6,639.8	3,274.8	3,236.1	38.79	84.424	
11,600.0	7,987.9	7,866.5	7,853.8	40.2	27.7	-53.88	-1,399.5	-6,639.9	3,175.1	3,136.2	38.84	81.747	
11,700.0	7,987.1	7,870.2	7,857.5	41.3	27.7	-54.71	-1,399.7	-6,640.1	3,075.3	3,036.4	38.89	79.076	
11,800.0	7,986.3	7,873.9	7,861.2	42.4	27.8	-55.56	-1,399.9	-6,640.3	2,975.6	2,936.6	38.94	76.410	
11,900.0	7,985.5	7,877.7	7,864.9	43.4	27.8	-56.43	-1,400.1	-6,640.4	2,875.8	2,836.8	38.99	73.750	
12,000.0	7,984.7	7,881.4	7,868.6	44.5	27.8	-57.31	-1,400.3	-6,640.6	2,776.1	2,737.0	39.05	71.096	
12,100.0	7,983.9	7,885.1	7,872.3	45.6	27.8	-58.20	-1,400.5	-6,640.8	2,676.4	2,637.3	39.10	68.447	
12,200.0	7,983.0	7,888.8	7,876.0	46.7	27.8	-59.12	-1,400.7	-6,640.9	2,576.7	2,537.5	39.16	65.803	
12,300.0	7,982.2	7,892.5	7,879.7	47.8	27.8	-60.04	-1,400.9	-6,641.1	2,477.0	2,437.8	39.21	63.166	
12,400.0	7,981.4	7,896.3	7,883.4	48.9	27.8	-60.99	-1,401.1	-6,641.3	2,377.4	2,338.1	39.27	60.533	
12,500.0	7,980.6	7,900.0	7,887.1	50.0	27.9	-61.95	-1,401.3	-6,641.4	2,277.7	2,238.4	39.34	57.905	
12,600.0	7,979.8	7,903.7	7,890.9	51.0	27.9	-62.92	-1,401.5	-6,641.6	2,178.1	2,138.7	39.40	55.282	
12,700.0	7,979.0	7,907.4	7,894.6	52.1	27.9	-63.91	-1,401.7	-6,641.8	2,078.6	2,039.1	39.47	52.663	
12,800.0	7,978.1	7,911.1	7,898.3	53.2	27.9	-64.91	-1,401.9	-6,641.9	1,979.0	1,939.5	39.54	50.047	
12,900.0	7,977.3	7,914.8	7,902.0	54.3	27.9	-65.93	-1,402.1	-6,642.1	1,879.5	1,839.9	39.63	47.432	
13,000.0	7,976.5	7,918.6	7,905.7	55.4	27.9	-66.96	-1,402.3	-6,642.3	1,780.1	1,740.4	39.72	44.819	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #703H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.0	7,975.7	7,922.3	7,909.4	56.5	27.9	-68.01	-1,402.5	-6,642.4	1,680.7	1,640.9	39.82	42.204	
13,171.4	7,975.1	7,924.9	7,912.0	57.3	27.9	-68.76	-1,402.6	-6,642.5	1,609.8	1,569.9	39.91	40.336	
13,200.0	7,974.9	7,926.0	7,913.1	57.6	27.9	-70.65	-1,402.7	-6,642.6	1,581.4	1,541.5	39.95	39.587	
13,245.7	7,974.5	7,927.6	7,914.7	58.1	28.0	-73.10	-1,402.8	-6,642.7	1,536.1	1,496.1	40.01	38.391	
13,300.0	7,974.0	7,929.6	7,916.7	58.7	28.0	-73.57	-1,402.9	-6,642.8	1,482.5	1,442.4	40.10	36.967	
13,400.0	7,973.2	7,933.2	7,920.3	59.8	28.0	-74.45	-1,403.1	-6,642.9	1,383.8	1,343.4	40.31	34.325	
13,500.0	7,972.4	7,936.7	7,923.8	60.9	28.0	-75.33	-1,403.3	-6,643.1	1,285.2	1,244.6	40.60	31.659	
13,600.0	7,971.6	7,940.3	7,927.4	62.0	28.0	-76.23	-1,403.5	-6,643.2	1,186.9	1,145.9	40.98	28.962	
13,700.0	7,970.8	7,943.9	7,931.0	63.1	28.0	-77.12	-1,403.7	-6,643.4	1,088.9	1,047.4	41.51	26.230	
13,800.0	7,969.9	7,947.5	7,934.5	64.2	28.0	-78.02	-1,403.8	-6,643.6	991.2	949.0	42.25	23.463	
13,900.0	7,969.1	7,951.0	7,938.1	65.3	28.0	-78.93	-1,404.0	-6,643.7	894.1	850.8	43.27	20.662	
14,000.0	7,968.3	7,954.6	7,941.7	66.4	28.1	-79.84	-1,404.2	-6,643.9	797.7	752.9	44.71	17.840	
14,100.0	7,967.5	7,958.2	7,945.2	67.5	28.1	-80.75	-1,404.4	-6,644.0	702.2	655.4	46.75	15.020	
14,200.0	7,966.7	7,961.8	7,948.8	68.6	28.1	-81.66	-1,404.6	-6,644.2	608.2	558.5	49.67	12.245	
14,300.0	7,965.8	7,965.3	7,952.4	69.7	28.1	-82.58	-1,404.8	-6,644.4	516.4	462.5	53.89	9.582	
14,400.0	7,965.0	7,968.9	7,955.9	70.8	28.1	-83.50	-1,405.0	-6,644.5	428.2	368.2	60.08	7.128	
14,500.0	7,964.2	7,972.5	7,959.5	71.9	28.1	-84.43	-1,405.2	-6,644.7	346.6	277.4	69.20	5.008	
14,600.0	7,963.4	7,976.1	7,963.1	73.0	28.1	-85.35	-1,405.4	-6,644.8	277.1	195.1	82.07	3.377	
14,700.0	7,962.6	7,979.7	7,966.6	74.1	28.1	-86.27	-1,405.6	-6,645.0	231.2	134.7	96.49	2.396	
14,766.8	7,962.0	7,982.0	7,969.0	74.8	28.1	-86.89	-1,405.7	-6,645.1	221.4	118.9	102.46	2.161 CC, ES, SF	
14,800.0	7,961.7	7,983.2	7,970.2	75.2	28.2	-87.20	-1,405.8	-6,645.2	223.9	120.7	103.17	2.170	
14,900.0	7,960.9	7,986.8	7,973.8	76.3	28.2	-88.12	-1,405.9	-6,645.3	258.3	160.9	97.44	2.651	
15,000.0	7,960.1	7,990.4	7,977.3	77.4	28.2	-89.05	-1,406.1	-6,645.5	321.4	233.9	87.59	3.670	
15,100.0	7,959.3	7,994.0	7,980.9	78.5	28.2	-89.97	-1,406.3	-6,645.6	399.9	320.7	79.17	5.051	
15,200.0	7,958.5	7,997.5	7,984.5	79.6	28.2	-90.89	-1,406.5	-6,645.8	486.2	413.3	72.93	6.667	
15,300.0	7,957.6	8,001.1	7,988.0	80.7	28.2	-91.81	-1,406.7	-6,646.0	577.0	508.6	68.39	8.437	
15,400.0	7,956.8	8,004.7	7,991.6	81.8	28.2	-92.73	-1,406.9	-6,646.1	670.4	605.4	65.04	10.308	
15,500.0	7,956.0	8,008.3	7,995.2	82.9	28.2	-93.64	-1,407.1	-6,646.3	765.4	702.9	62.51	12.246	
15,600.0	7,955.2	8,011.8	7,998.7	84.0	28.3	-94.55	-1,407.3	-6,646.4	861.6	801.0	60.56	14.228	
15,700.0	7,954.4	8,015.4	8,002.3	85.1	28.3	-95.46	-1,407.5	-6,646.6	958.5	899.5	59.03	16.239	
15,800.0	7,953.5	8,019.0	8,005.9	86.2	28.3	-96.36	-1,407.7	-6,646.8	1,056.0	998.2	57.81	18.268	
15,900.0	7,952.7	8,022.6	8,009.4	87.3	28.3	-97.26	-1,407.9	-6,646.9	1,153.9	1,097.1	56.82	20.308	
16,000.0	7,951.9	8,026.1	8,013.0	88.4	28.3	-98.15	-1,408.0	-6,647.1	1,252.1	1,196.1	56.02	22.353	
16,100.0	7,951.1	8,029.7	8,016.6	89.5	28.3	-99.04	-1,408.2	-6,647.2	1,350.6	1,295.3	55.35	24.399	
16,200.0	7,950.3	8,033.3	8,020.1	90.6	28.3	-99.92	-1,408.4	-6,647.4	1,449.3	1,394.5	54.81	26.444	
16,300.0	7,949.4	8,036.9	8,023.7	91.8	28.3	-100.79	-1,408.6	-6,647.6	1,548.1	1,493.8	54.35	28.485	
16,400.0	7,948.6	8,040.4	8,027.3	92.9	28.4	-101.66	-1,408.8	-6,647.7	1,647.1	1,593.1	53.97	30.521	
16,500.0	7,947.8	8,044.0	8,030.8	94.0	28.4	-102.52	-1,409.0	-6,647.9	1,746.2	1,692.5	53.65	32.550	
16,600.0	7,947.0	8,047.6	8,034.4	95.1	28.4	-103.38	-1,409.2	-6,648.0	1,845.4	1,792.0	53.38	34.571	
16,700.0	7,946.2	8,051.2	8,038.0	96.2	28.4	-104.22	-1,409.4	-6,648.2	1,944.6	1,891.4	53.16	36.583	
16,800.0	7,945.3	8,054.8	8,041.5	97.3	28.4	-105.06	-1,409.6	-6,648.4	2,043.9	1,990.9	52.97	38.587	
16,900.0	7,944.5	8,058.3	8,045.1	98.4	28.4	-105.89	-1,409.8	-6,648.5	2,143.3	2,090.5	52.82	40.580	
17,000.0	7,943.7	8,061.9	8,048.7	99.5	28.4	-106.72	-1,410.0	-6,648.7	2,242.7	2,190.0	52.69	42.564	
17,100.0	7,942.9	8,065.5	8,052.2	100.6	28.4	-107.53	-1,410.1	-6,648.8	2,342.2	2,289.6	52.59	44.537	
17,200.0	7,942.1	8,069.1	8,055.8	101.7	28.5	-108.34	-1,410.3	-6,649.0	2,441.7	2,389.2	52.51	46.500	
17,300.0	7,941.2	8,072.6	8,059.4	102.8	28.5	-109.13	-1,410.5	-6,649.2	2,541.2	2,488.8	52.45	48.452	
17,400.0	7,940.4	8,076.2	8,063.0	103.9	28.5	-109.92	-1,410.7	-6,649.3	2,640.8	2,588.4	52.40	50.393	
17,500.0	7,939.6	8,079.8	8,066.5	105.1	28.5	-110.70	-1,410.9	-6,649.5	2,740.4	2,688.0	52.38	52.323	
17,600.0	7,938.8	8,083.4	8,070.1	106.2	28.5	-111.47	-1,411.1	-6,649.6	2,840.0	2,787.7	52.36	54.241	
17,700.0	7,938.0	8,086.9	8,073.7	107.3	28.5	-112.23	-1,411.3	-6,649.8	2,939.7	2,887.3	52.35	56.149	
17,800.0	7,937.1	8,090.5	8,077.2	108.4	28.5	-112.98	-1,411.5	-6,650.0	3,039.3	2,987.0	52.36	58.046	
17,900.0	7,936.3	8,094.1	8,080.8	109.5	28.5	-113.72	-1,411.7	-6,650.1	3,139.0	3,086.6	52.38	59.931	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #703H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,996.2	7,935.5	8,097.5	8,084.2	110.6	28.6	-114.43	-1,411.9	-6,650.3	3,234.9	3,182.5	52.40	61.735	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #704H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8738-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	35.0	35.0	4.2	3.0	-96.89	-1,094.5	-9,053.0	9,118.9				
100.0	100.0	135.0	135.0	4.2	3.0	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.24	1,258.978	
200.0	200.0	235.0	235.0	4.2	3.0	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.25	1,258.451	
300.0	300.0	335.0	335.0	4.3	3.0	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.25	1,257.427	
400.0	400.0	435.0	435.0	4.3	3.0	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.26	1,255.909	
500.0	500.0	535.0	535.0	4.3	3.1	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.27	1,253.902	
600.0	600.0	635.0	635.0	4.3	3.1	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.7	7.29	1,251.415	
700.0	700.0	735.0	735.0	4.3	3.1	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.6	7.30	1,248.457	
800.0	800.0	835.0	835.0	4.4	3.2	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.6	7.32	1,245.037	
900.0	900.0	935.0	935.0	4.4	3.2	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.6	7.35	1,241.168	
1,000.0	1,000.0	1,035.0	1,035.0	4.4	3.3	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.6	7.37	1,236.863	
1,100.0	1,100.0	1,135.0	1,135.0	4.5	3.3	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.5	7.40	1,232.137	
1,200.0	1,200.0	1,235.0	1,235.0	4.5	3.4	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.5	7.43	1,227.006	
1,300.0	1,300.0	1,335.0	1,335.0	4.5	3.4	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.5	7.47	1,221.485	
1,400.0	1,400.0	1,435.0	1,435.0	4.6	3.5	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.4	7.50	1,215.593	
1,500.0	1,500.0	1,535.0	1,535.0	4.6	3.6	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.4	7.54	1,209.347	
1,600.0	1,600.0	1,635.0	1,635.0	4.7	3.6	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.4	7.58	1,202.766	
1,700.0	1,700.0	1,735.0	1,735.0	4.8	3.7	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.3	7.63	1,195.869	
1,800.0	1,800.0	1,835.0	1,835.0	4.8	3.8	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.3	7.67	1,188.675	
1,900.0	1,900.0	1,935.0	1,935.0	4.9	3.9	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.2	7.72	1,181.204	
2,000.0	2,000.0	2,035.0	2,035.0	5.0	4.0	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.2	7.77	1,173.474	
2,100.0	2,100.0	2,135.0	2,135.0	5.0	4.1	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.1	7.82	1,165.505	
2,200.0	2,200.0	2,235.0	2,235.0	5.1	4.1	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.1	7.88	1,157.317	
2,300.0	2,300.0	2,335.0	2,335.0	5.2	4.2	-96.89	-1,094.5	-9,053.0	9,118.9	9,111.0	7.94	1,148.927	
2,400.0	2,400.0	2,829.1	2,828.6	5.2	4.4	-96.98	-1,106.2	-9,041.8	9,117.7	9,109.5	8.16	1,117.727	
2,500.0	2,500.0	2,928.8	2,928.0	5.3	4.4	-97.01	-1,111.4	-9,036.8	9,113.4	9,105.2	8.23	1,107.065	
2,600.0	2,600.0	3,028.6	3,027.6	5.3	4.4	97.04	-1,116.7	-9,031.8	9,109.3	9,101.0	8.31	1,096.235	
2,700.0	2,699.8	3,128.6	3,127.3	5.3	4.4	97.11	-1,121.9	-9,026.9	9,105.6	9,097.2	8.39	1,085.307	
2,800.0	2,799.5	3,228.5	3,226.9	5.3	4.4	97.20	-1,127.1	-9,021.9	9,102.4	9,093.9	8.47	1,074.298	
2,900.0	2,898.9	3,328.3	3,326.5	5.3	4.4	97.22	-1,132.3	-9,016.9	9,099.4	9,090.8	8.56	1,063.161	
3,000.0	2,998.4	3,428.2	3,426.1	5.3	4.4	97.25	-1,137.5	-9,011.9	9,096.3	9,087.7	8.65	1,051.868	
3,100.0	3,097.8	3,528.0	3,525.7	5.2	4.4	97.28	-1,142.7	-9,007.0	9,093.3	9,084.6	8.74	1,040.440	
3,200.0	3,197.3	3,627.9	3,625.3	5.2	4.4	97.31	-1,147.9	-9,002.0	9,090.3	9,081.5	8.84	1,028.897	
3,300.0	3,296.7	3,727.7	3,724.9	5.2	4.5	97.34	-1,153.1	-8,997.0	9,087.3	9,078.4	8.93	1,017.258	
3,400.0	3,396.2	3,827.5	3,824.5	5.2	4.5	97.37	-1,158.3	-8,992.1	9,084.3	9,075.3	9.03	1,005.541	
3,500.0	3,495.6	3,927.4	3,924.0	5.2	4.5	97.40	-1,163.5	-8,987.1	9,081.3	9,072.2	9.14	993.765	
3,600.0	3,595.1	4,027.2	4,023.6	5.2	4.6	97.43	-1,168.7	-8,982.1	9,078.3	9,069.1	9.25	981.946	
3,700.0	3,694.5	4,127.1	4,123.2	5.2	4.6	97.46	-1,173.9	-8,977.1	9,075.3	9,065.9	9.36	970.100	
3,800.0	3,794.0	4,226.9	4,222.8	5.2	4.6	97.49	-1,179.2	-8,972.2	9,072.3	9,062.8	9.47	958.243	
3,900.0	3,893.4	4,326.8	4,322.4	5.2	4.7	97.52	-1,184.4	-8,967.2	9,069.3	9,059.7	9.58	946.389	
4,000.0	3,992.9	4,426.6	4,422.0	5.3	4.7	97.54	-1,189.6	-8,962.2	9,066.3	9,056.6	9.70	934.551	
4,100.0	4,092.3	4,526.5	4,521.6	5.3	4.8	97.57	-1,194.8	-8,957.3	9,063.3	9,053.5	9.82	922.742	
4,200.0	4,191.8	4,626.3	4,621.2	5.3	4.8	97.60	-1,200.0	-8,952.3	9,060.3	9,050.4	9.95	910.973	
4,300.0	4,291.2	4,726.2	4,720.7	5.3	4.9	97.63	-1,205.2	-8,947.3	9,057.3	9,047.3	10.07	899.257	
4,400.0	4,390.7	4,826.0	4,820.3	5.4	5.0	97.66	-1,210.4	-8,942.3	9,054.4	9,044.2	10.20	887.602	
4,500.0	4,490.1	4,925.9	4,919.9	5.4	5.0	97.69	-1,215.6	-8,937.4	9,051.4	9,041.1	10.33	876.019	
4,600.0	4,589.6	5,025.7	5,019.5	5.5	5.1	97.72	-1,220.8	-8,932.4	9,048.4	9,037.9	10.47	864.516	
4,700.0	4,689.0	5,125.6	5,119.1	5.5	5.2	97.75	-1,226.0	-8,927.4	9,045.4	9,034.8	10.60	853.101	
4,800.0	4,788.5	5,225.4	5,218.7	5.6	5.2	97.78	-1,231.2	-8,922.5	9,042.5	9,031.7	10.74	841.782	
4,900.0	4,887.9	5,325.3	5,318.3	5.6	5.3	97.81	-1,236.4	-8,917.5	9,039.5	9,028.6	10.88	830.564	
5,000.0	4,987.4	5,425.1	5,417.9	5.7	5.4	97.84	-1,241.7	-8,912.5	9,036.5	9,025.5	11.03	819.454	
5,100.0	5,086.9	5,525.0	5,517.5	5.7	5.5	97.87	-1,246.9	-8,907.5	9,033.5	9,022.4	11.17	808.458	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #704H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8738-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,186.3	5,624.8	5,617.0	5.8	5.5	97.90	-1,252.1	-8,902.6	9,030.6	9,019.3	11.32	797.579	
5,300.0	5,285.8	5,724.7	5,716.6	5.9	5.6	97.93	-1,257.3	-8,897.6	9,027.6	9,016.2	11.47	786.823	
5,400.0	5,385.2	5,824.5	5,816.2	5.9	5.7	97.96	-1,262.5	-8,892.6	9,024.7	9,013.0	11.63	776.193	
5,500.0	5,484.7	5,924.4	5,915.8	6.0	5.8	97.99	-1,267.7	-8,887.6	9,021.7	9,009.9	11.78	765.692	
5,600.0	5,584.1	6,024.2	6,015.4	6.1	5.9	98.01	-1,272.9	-8,882.7	9,018.8	9,006.8	11.94	755.324	
5,700.0	5,683.6	6,124.1	6,115.0	6.1	6.0	98.04	-1,278.1	-8,877.7	9,015.8	9,003.7	12.10	745.090	
5,800.0	5,783.0	6,223.9	6,214.6	6.2	6.1	98.07	-1,283.3	-8,872.7	9,012.9	9,000.6	12.26	734.993	
5,900.0	5,882.5	6,323.8	6,314.2	6.3	6.1	98.10	-1,288.5	-8,867.8	9,009.9	8,997.5	12.43	725.034	
6,000.0	5,981.9	6,423.6	6,413.7	6.4	6.2	98.13	-1,293.7	-8,862.8	9,007.0	8,994.4	12.59	715.215	
6,100.0	6,081.4	6,523.5	6,513.3	6.4	6.3	98.16	-1,298.9	-8,857.8	9,004.0	8,991.3	12.76	705.536	
6,200.0	6,180.8	6,623.3	6,612.9	6.5	6.4	98.19	-1,304.1	-8,852.8	9,001.1	8,988.1	12.93	695.999	
6,300.0	6,280.3	6,723.1	6,712.5	6.6	6.5	98.22	-1,309.4	-8,847.9	8,998.1	8,985.0	13.11	686.605	
6,400.0	6,379.7	6,823.0	6,812.1	6.7	6.6	98.25	-1,314.6	-8,842.9	8,995.2	8,981.9	13.28	677.372	
6,500.0	6,479.2	6,922.8	6,911.7	6.8	6.7	98.28	-1,319.8	-8,837.9	8,992.3	8,978.8	13.46	668.225	
6,600.0	6,578.6	7,022.7	7,011.3	6.8	6.8	98.31	-1,325.0	-8,833.0	8,989.3	8,975.7	13.64	659.258	
6,700.0	6,678.1	7,122.5	7,110.9	6.9	6.9	98.34	-1,330.2	-8,828.0	8,986.4	8,972.6	13.82	650.429	
6,800.0	6,777.5	7,222.3	7,210.3	7.0	7.0	98.37	-1,335.4	-8,823.0	8,983.5	8,969.5	14.00	641.600	
6,900.0	6,877.0	7,322.1	7,309.9	7.1	7.1	98.40	-1,340.6	-8,818.0	8,980.6	8,966.5	14.18	632.771	
7,000.0	6,976.4	7,421.9	7,409.7	7.2	7.2	98.43	-1,345.8	-8,813.0	8,977.7	8,963.5	14.36	623.942	
7,100.0	7,075.9	7,521.7	7,509.5	7.3	7.3	98.46	-1,351.0	-8,808.0	8,974.8	8,960.5	14.54	615.113	
7,200.0	7,175.3	7,621.5	7,609.3	7.4	7.4	98.49	-1,356.2	-8,803.0	8,971.9	8,957.5	14.72	606.284	
7,300.0	7,274.8	7,721.3	7,712.5	7.5	7.5	98.52	-1,361.4	-8,798.0	8,969.0	8,955.0	14.90	597.455	
7,400.0	7,374.3	7,821.1	7,812.1	7.6	7.6	98.55	-1,366.6	-8,793.0	8,966.1	8,952.0	15.08	588.626	
7,500.0	7,473.7	7,920.9	7,911.7	7.7	7.7	98.58	-1,371.8	-8,788.0	8,963.2	8,949.0	15.26	579.797	
7,580.8	7,554.1	8,020.7	8,011.3	7.7	7.7	98.61	-1,377.0	-8,783.0	8,960.3	8,946.0	15.44	570.968	
7,600.0	7,573.1	8,040.0	8,030.0	7.7	7.7	98.64	-1,382.2	-8,778.0	8,957.4	8,943.0	15.62	562.139	
7,625.0	7,597.9	8,060.0	8,050.0	7.7	7.7	98.67	-1,387.4	-8,773.0	8,954.5	8,940.0	15.80	553.310	
7,650.0	7,622.5	8,080.0	8,070.0	7.7	7.7	98.70	-1,392.6	-8,768.0	8,951.6	8,937.0	15.98	544.481	
7,675.0	7,646.9	8,100.0	8,090.0	7.7	7.7	98.73	-1,397.8	-8,763.0	8,948.7	8,934.0	16.16	535.652	
7,700.0	7,670.9	8,120.0	8,110.0	7.7	7.7	98.76	-1,403.0	-8,758.0	8,945.8	8,931.0	16.34	526.823	
7,725.0	7,694.7	8,140.0	8,130.0	7.8	7.8	98.79	-1,408.2	-8,753.0	8,942.9	8,928.0	16.52	517.994	
7,750.0	7,718.0	8,160.0	8,150.0	7.8	7.8	98.82	-1,413.4	-8,748.0	8,940.0	8,925.0	16.70	509.165	
7,775.0	7,740.8	8,180.0	8,170.0	7.8	7.8	98.85	-1,418.6	-8,743.0	8,937.1	8,922.0	16.88	500.336	
7,800.0	7,763.0	8,200.0	8,190.0	7.8	7.8	98.88	-1,423.8	-8,738.0	8,934.2	8,919.0	17.06	491.507	
7,825.0	7,784.7	8,220.0	8,210.0	7.8	7.8	98.91	-1,429.0	-8,733.0	8,931.3	8,916.0	17.24	482.678	
7,850.0	7,805.7	8,240.0	8,230.0	7.9	7.9	98.94	-1,434.2	-8,728.0	8,928.4	8,913.0	17.42	473.849	
7,875.0	7,825.9	8,260.0	8,250.0	7.9	7.9	98.97	-1,439.4	-8,723.0	8,925.5	8,910.0	17.60	465.020	
7,900.0	7,845.4	8,280.0	8,270.0	7.9	7.9	99.00	-1,444.6	-8,718.0	8,922.6	8,907.0	17.78	456.191	
7,925.0	7,864.0	8,300.0	8,290.0	8.0	8.0	99.03	-1,449.8	-8,713.0	8,919.7	8,904.0	17.96	447.362	
7,950.0	7,881.7	8,320.0	8,310.0	8.0	8.0	99.06	-1,455.0	-8,708.0	8,916.8	8,901.0	18.14	438.533	
7,975.0	7,898.5	8,340.0	8,330.0	8.1	8.1	99.09	-1,460.2	-8,703.0	8,913.9	8,898.0	18.32	429.704	
8,000.0	7,914.4	8,360.0	8,350.0	8.1	8.1	99.12	-1,465.4	-8,698.0	8,911.0	8,895.0	18.50	420.875	
8,025.0	7,929.2	8,380.0	8,370.0	8.1	8.1	99.15	-1,470.6	-8,693.0	8,908.1	8,892.0	18.68	412.046	
8,050.0	7,942.9	8,400.0	8,390.0	8.2	8.2	99.18	-1,475.8	-8,688.0	8,905.2	8,889.0	18.86	403.217	
8,075.0	7,955.5	8,420.0	8,410.0	8.2	8.2	99.21	-1,481.0	-8,683.0	8,902.3	8,886.0	19.04	394.388	
8,100.0	7,967.0	8,440.0	8,430.0	8.3	8.3	99.24	-1,486.2	-8,678.0	8,899.4	8,883.0	19.22	385.559	
8,125.0	7,977.3	8,460.0	8,450.0	8.3	8.3	99.27	-1,491.4	-8,673.0	8,896.5	8,880.0	19.40	376.730	
8,150.0	7,986.4	8,480.0	8,470.0	8.4	8.4	99.30	-1,496.6	-8,668.0	8,893.6	8,877.0	19.58	367.901	
8,175.0	7,994.3	8,500.0	8,490.0	8.5	8.5	99.33	-1,501.8	-8,663.0	8,890.7	8,874.0	19.76	359.072	
8,200.0	8,001.0	8,520.0	8,510.0	8.5	8.5	99.36	-1,507.0	-8,658.0	8,887.8	8,871.0	19.94	350.243	
8,225.0	8,006.3	8,540.0	8,530.0	8.6	8.6	99.39	-1,512.2	-8,653.0	8,884.9	8,868.0	20.12	341.414	
8,250.0	8,010.4	8,560.0	8,550.0	8.7	8.7	99.42	-1,517.4	-8,648.0	8,882.0	8,865.0	20.30	332.585	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #704H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8738-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,275.0	8,013.3	10,300.0	9,256.0	8.8	14.5	101.53	-2,584.7	-8,259.9	8,325.1	8,301.8	23.29	357.420	
8,300.0	8,014.8	10,300.0	9,256.0	8.9	14.5	110.26	-2,584.7	-8,259.9	8,301.4	8,278.1	23.32	356.032	
8,320.6	8,015.1	10,300.0	9,256.0	9.0	14.5	116.96	-2,584.7	-8,259.9	8,282.0	8,258.6	23.33	354.921	
8,400.0	8,014.4	10,300.0	9,256.0	9.5	14.5	119.14	-2,584.7	-8,259.9	8,207.0	8,183.6	23.42	350.473	
8,500.0	8,013.6	10,300.0	9,256.0	10.1	14.5	122.35	-2,584.7	-8,259.9	8,111.8	8,088.2	23.53	344.713	
8,600.0	8,012.7	10,300.0	9,256.0	10.8	14.5	126.22	-2,584.7	-8,259.9	8,015.8	7,992.1	23.65	338.899	
8,700.0	8,011.9	10,300.0	9,256.0	11.5	14.5	130.93	-2,584.7	-8,259.9	7,919.1	7,895.4	23.77	333.090	
8,800.0	8,011.1	10,300.0	9,256.0	12.4	14.5	136.69	-2,584.7	-8,259.9	7,821.9	7,798.0	23.90	327.328	
8,900.0	8,010.2	10,300.0	9,256.0	13.2	14.5	143.71	-2,584.7	-8,259.9	7,724.3	7,700.2	24.01	321.647	
9,000.0	8,009.4	10,300.0	9,256.0	14.1	14.5	152.18	-2,584.7	-8,259.9	7,626.2	7,602.1	24.13	316.074	
9,100.0	8,008.5	10,300.0	9,256.0	15.0	14.5	162.08	-2,584.7	-8,259.9	7,527.9	7,503.7	24.23	310.628	
9,200.0	8,007.7	10,300.0	9,256.0	15.9	14.5	173.07	-2,584.7	-8,259.9	7,429.4	7,405.1	24.33	305.324	
9,300.0	8,006.8	10,300.0	9,256.0	16.8	14.5	-175.56	-2,584.7	-8,259.9	7,331.0	7,306.5	24.42	300.166	
9,400.0	8,006.0	10,300.0	9,256.0	17.7	14.5	-164.67	-2,584.7	-8,259.9	7,232.5	7,208.0	24.50	295.153	
9,500.0	8,005.1	10,300.0	9,256.0	18.7	14.5	-154.93	-2,584.7	-8,259.9	7,134.4	7,109.8	24.58	290.278	
9,600.0	8,004.3	10,300.0	9,256.0	19.6	14.5	-146.65	-2,584.7	-8,259.9	7,036.5	7,011.9	24.64	285.526	
9,700.0	8,003.5	10,300.0	9,256.0	20.6	14.5	-139.79	-2,584.7	-8,259.9	6,939.2	6,914.5	24.71	280.875	
9,800.0	8,002.7	10,300.0	9,256.0	21.6	14.5	-134.18	-2,584.7	-8,259.9	6,842.4	6,817.7	24.76	276.296	
9,815.2	8,002.5	10,300.0	9,256.0	21.7	14.5	-133.42	-2,584.7	-8,259.9	6,827.8	6,803.0	24.77	275.619	
9,900.0	8,001.8	10,300.0	9,256.0	22.5	14.5	-133.42	-2,584.7	-8,259.9	6,746.2	6,721.4	24.83	271.692	
10,000.0	8,001.0	10,300.0	9,256.0	23.5	14.5	-133.42	-2,584.7	-8,259.9	6,650.1	6,625.2	24.91	266.943	
10,100.0	8,000.2	10,300.0	9,256.0	24.5	14.5	-133.42	-2,584.7	-8,259.9	6,554.1	6,529.1	25.01	262.073	
10,200.0	7,999.4	10,300.0	9,256.0	25.5	14.5	-133.42	-2,584.7	-8,259.9	6,458.2	6,433.1	25.12	257.087	
10,300.0	7,998.6	10,264.3	9,256.0	26.5	14.3	-134.17	-2,549.9	-8,267.5	6,362.2	6,337.2	25.01	254.429	
10,400.0	7,997.8	10,257.7	9,256.0	27.6	14.2	-134.32	-2,543.3	-8,268.9	6,266.4	6,241.3	25.10	249.643	
10,500.0	7,996.9	10,250.8	9,256.0	28.6	14.2	-134.46	-2,536.7	-8,270.4	6,170.8	6,145.6	25.21	244.754	
10,600.0	7,996.1	10,243.9	9,256.0	29.6	14.1	-134.62	-2,529.9	-8,272.0	6,075.3	6,050.0	25.34	239.769	
10,700.0	7,995.3	10,236.8	9,256.0	30.7	14.1	-134.77	-2,523.0	-8,273.6	5,979.9	5,954.4	25.48	234.695	
10,800.0	7,994.5	10,200.0	9,256.0	31.7	13.8	-135.58	-2,487.2	-8,282.2	5,884.9	5,859.5	25.42	231.502	
10,900.0	7,993.7	10,200.0	9,256.0	32.8	13.8	-135.58	-2,487.2	-8,282.2	5,789.6	5,764.0	25.64	225.761	
11,000.0	7,992.8	10,200.0	9,256.0	33.8	13.8	-135.58	-2,487.2	-8,282.2	5,694.6	5,668.7	25.89	219.957	
11,100.0	7,992.0	10,200.0	9,256.0	34.9	13.8	-135.58	-2,487.2	-8,282.2	5,599.7	5,573.5	26.15	214.100	
11,200.0	7,991.2	10,200.0	9,256.0	35.9	13.8	-135.58	-2,487.2	-8,282.2	5,505.0	5,478.5	26.44	208.198	
11,300.0	7,990.4	10,200.0	9,256.0	37.0	13.8	-135.58	-2,487.2	-8,282.2	5,410.4	5,383.7	26.75	202.261	
11,400.0	7,989.6	10,200.0	9,256.0	38.1	13.8	-135.58	-2,487.2	-8,282.2	5,316.1	5,289.0	27.08	196.301	
11,500.0	7,988.8	10,200.0	9,256.0	39.1	13.8	-135.58	-2,487.2	-8,282.2	5,222.0	5,194.6	27.44	190.327	
11,600.0	7,987.9	10,164.7	9,256.0	40.2	13.6	-136.38	-2,453.0	-8,291.0	5,127.8	5,100.3	27.51	186.417	
11,700.0	7,987.1	10,155.7	9,256.0	41.3	13.5	-136.59	-2,444.3	-8,293.2	5,033.9	5,006.1	27.82	180.931	
11,800.0	7,986.3	10,146.5	9,256.0	42.4	13.5	-136.80	-2,435.4	-8,295.6	4,940.3	4,912.1	28.16	175.455	
11,900.0	7,985.5	10,137.0	9,256.0	43.4	13.4	-137.03	-2,426.3	-8,298.1	4,846.8	4,818.3	28.51	169.998	
12,000.0	7,984.7	10,100.0	9,256.0	44.5	13.1	-137.90	-2,390.6	-8,308.0	4,753.8	4,725.2	28.62	166.090	
12,100.0	7,983.9	10,100.0	9,256.0	45.6	13.1	-137.90	-2,390.6	-8,308.0	4,660.7	4,631.6	29.11	160.116	
12,200.0	7,983.0	10,100.0	9,256.0	46.7	13.1	-137.90	-2,390.6	-8,308.0	4,567.9	4,538.2	29.62	154.194	
12,300.0	7,982.2	10,100.0	9,256.0	47.8	13.1	-137.90	-2,390.6	-8,308.0	4,475.3	4,445.2	30.17	148.331	
12,400.0	7,981.4	10,100.0	9,256.0	48.9	13.1	-137.90	-2,390.6	-8,308.0	4,383.1	4,352.4	30.75	142.538	
12,500.0	7,980.6	10,100.0	9,256.0	50.0	13.1	-137.90	-2,390.6	-8,308.0	4,291.3	4,259.9	31.36	136.821	
12,600.0	7,979.8	10,063.2	9,256.0	51.0	12.9	-138.79	-2,355.3	-8,318.3	4,199.4	4,167.8	31.59	132.926	
12,700.0	7,979.0	10,051.5	9,256.0	52.1	12.8	-139.08	-2,344.1	-8,321.7	4,108.1	4,075.9	32.13	127.871	
12,800.0	7,978.1	10,039.4	9,256.0	53.2	12.7	-139.38	-2,332.5	-8,325.3	4,017.0	3,984.3	32.69	122.895	
12,900.0	7,977.3	10,000.0	9,256.0	54.3	12.5	-140.37	-2,295.0	-8,337.1	3,926.5	3,893.6	32.94	119.197	
13,000.0	7,976.5	10,000.0	9,256.0	55.4	12.5	-140.37	-2,295.0	-8,337.1	3,836.1	3,802.3	33.71	113.803	
13,100.0	7,975.7	10,000.0	9,256.0	56.5	12.5	-140.37	-2,295.0	-8,337.1	3,746.1	3,711.5	34.52	108.524	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #704H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8738-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,171.4	7,975.1	10,000.0	9,256.0	57.3	12.5	-140.37	-2,295.0	-8,337.1	3,682.1	3,647.0	35.12	104.829	
13,200.0	7,974.9	10,000.0	9,256.0	57.6	12.5	-139.51	-2,295.0	-8,337.1	3,656.6	3,621.2	35.38	103.364	
13,245.7	7,974.5	10,000.0	9,256.0	58.1	12.5	-138.19	-2,295.0	-8,337.1	3,616.1	3,580.3	35.79	101.030	
13,300.0	7,974.0	9,972.4	9,256.0	58.7	12.3	-138.85	-2,268.8	-8,345.7	3,568.2	3,532.2	35.93	99.319	
13,400.0	7,973.2	9,956.8	9,256.0	59.8	12.2	-139.23	-2,254.0	-8,350.7	3,480.3	3,443.7	36.68	94.880	
13,500.0	7,972.4	9,940.8	9,256.0	60.9	12.1	-139.62	-2,238.8	-8,356.0	3,393.0	3,355.6	37.47	90.548	
13,600.0	7,971.6	9,900.0	9,256.0	62.0	11.8	-140.64	-2,200.4	-8,369.6	3,306.5	3,268.5	37.94	87.150	
13,700.0	7,970.8	8,170.4	8,156.0	63.1	8.0	-126.84	-1,384.8	-8,775.8	3,209.6	3,188.2	21.41	149.944	
13,800.0	7,969.9	8,164.5	8,150.2	64.2	8.0	-125.95	-1,384.5	-8,776.1	3,110.0	3,088.6	21.47	144.847	
13,900.0	7,969.1	8,158.7	8,144.3	65.3	8.0	-125.04	-1,384.2	-8,776.4	3,010.5	2,988.9	21.54	139.766	
14,000.0	7,968.3	8,152.8	8,138.4	66.4	8.0	-124.10	-1,383.9	-8,776.7	2,910.9	2,889.3	21.61	134.702	
14,100.0	7,967.5	8,146.9	8,132.6	67.5	8.0	-123.14	-1,383.6	-8,777.0	2,811.4	2,789.7	21.68	129.651	
14,200.0	7,966.7	8,141.0	8,126.7	68.6	8.0	-122.16	-1,383.3	-8,777.3	2,711.9	2,690.2	21.76	124.613	
14,300.0	7,965.8	8,135.1	8,120.8	69.7	8.0	-121.15	-1,383.0	-8,777.6	2,612.5	2,590.6	21.85	119.586	
14,400.0	7,965.0	8,129.2	8,115.0	70.8	8.0	-120.12	-1,382.7	-8,777.9	2,513.0	2,491.1	21.94	114.567	
14,500.0	7,964.2	8,123.4	8,109.1	71.9	7.9	-119.06	-1,382.4	-8,778.1	2,413.6	2,391.6	22.03	109.553	
14,600.0	7,963.4	8,117.5	8,103.2	73.0	7.9	-117.98	-1,382.1	-8,778.4	2,314.3	2,292.1	22.14	104.542	
14,700.0	7,962.6	8,111.6	8,097.3	74.1	7.9	-116.87	-1,381.8	-8,778.7	2,214.9	2,192.7	22.25	99.528	
14,800.0	7,961.7	8,105.7	8,091.5	75.2	7.9	-115.74	-1,381.5	-8,779.0	2,115.7	2,093.3	22.39	94.508	
14,900.0	7,960.9	8,099.8	8,085.6	76.3	7.9	-114.58	-1,381.2	-8,779.3	2,016.4	1,993.9	22.54	89.478	
15,000.0	7,960.1	8,093.9	8,079.7	77.4	7.9	-113.40	-1,380.9	-8,779.6	1,917.3	1,894.6	22.71	84.431	
15,100.0	7,959.3	8,088.1	8,073.9	78.5	7.9	-112.19	-1,380.5	-8,779.9	1,818.2	1,795.3	22.91	79.361	
15,200.0	7,958.5	8,082.2	8,068.0	79.6	7.9	-110.96	-1,380.2	-8,780.2	1,719.2	1,696.0	23.15	74.264	
15,300.0	7,957.6	8,076.3	8,062.1	80.7	7.9	-109.71	-1,379.9	-8,780.5	1,620.3	1,596.8	23.44	69.132	
15,400.0	7,956.8	8,070.4	8,056.3	81.8	7.9	-108.43	-1,379.6	-8,780.8	1,521.5	1,497.7	23.79	63.960	
15,500.0	7,956.0	8,064.5	8,050.4	82.9	7.9	-107.13	-1,379.3	-8,781.1	1,422.8	1,398.6	24.22	58.746	
15,600.0	7,955.2	8,058.6	8,044.5	84.0	7.9	-105.80	-1,379.0	-8,781.4	1,324.4	1,299.6	24.76	53.487	
15,700.0	7,954.4	8,052.8	8,038.7	85.1	7.9	-104.46	-1,378.7	-8,781.7	1,226.1	1,200.7	25.44	48.190	
15,800.0	7,953.5	8,046.9	8,032.8	86.2	7.9	-103.09	-1,378.4	-8,782.0	1,128.2	1,101.8	26.32	42.868	
15,900.0	7,952.7	8,041.0	8,026.9	87.3	7.9	-101.71	-1,378.1	-8,782.2	1,030.6	1,003.1	27.45	37.547	
16,000.0	7,951.9	8,035.1	8,021.1	88.4	7.8	-100.31	-1,377.8	-8,782.5	933.4	904.5	28.93	32.267	
16,100.0	7,951.1	8,029.2	8,015.2	89.5	7.8	-98.89	-1,377.5	-8,782.8	836.9	806.0	30.89	27.093	
16,200.0	7,950.3	8,023.3	8,009.3	90.6	7.8	-97.46	-1,377.2	-8,783.1	741.3	707.8	33.53	22.108	
16,300.0	7,949.4	8,017.5	8,003.5	91.8	7.8	-96.01	-1,376.9	-8,783.4	646.9	609.8	37.14	17.421	
16,400.0	7,948.6	8,011.6	7,997.6	92.9	7.8	-94.56	-1,376.6	-8,783.7	554.5	512.4	42.15	13.155	
16,500.0	7,947.8	8,005.7	7,991.7	94.0	7.8	-93.09	-1,376.3	-8,784.0	465.2	415.9	49.26	9.443	
16,600.0	7,947.0	7,999.8	7,985.9	95.1	7.8	-91.61	-1,375.9	-8,784.3	381.0	321.6	59.47	6.407	
16,700.0	7,946.2	7,993.9	7,980.0	96.2	7.8	-90.13	-1,375.6	-8,784.6	306.5	232.6	73.89	4.148	
16,800.0	7,945.3	7,988.0	7,974.1	97.3	7.8	-88.65	-1,375.3	-8,784.9	250.2	158.5	91.66	2.730	
16,900.0	7,944.5	7,982.2	7,968.2	98.4	7.8	-87.16	-1,375.0	-8,785.2	226.3	121.8	104.51	2.165	
16,907.2	7,944.5	7,981.7	7,967.8	98.5	7.8	-87.05	-1,375.0	-8,785.2	226.2	121.3	104.87	2.157 CC, ES, SF	
17,000.0	7,943.7	7,976.3	7,962.4	99.5	7.8	-85.67	-1,374.7	-8,785.5	244.4	142.6	101.77	2.402	
17,100.0	7,942.9	7,970.4	7,956.5	100.6	7.8	-84.19	-1,374.4	-8,785.8	297.0	207.7	89.24	3.328	
17,200.0	7,942.1	7,964.5	7,950.6	101.7	7.8	-82.70	-1,374.1	-8,786.1	369.6	292.8	76.81	4.812	
17,300.0	7,941.2	7,958.6	7,944.8	102.8	7.8	-81.23	-1,373.8	-8,786.3	452.7	385.4	67.26	6.730	
17,400.0	7,940.4	7,952.7	7,938.9	103.9	7.8	-79.76	-1,373.5	-8,786.6	541.5	481.2	60.28	8.982	
17,500.0	7,939.6	7,946.9	7,933.0	105.1	7.8	-78.30	-1,373.2	-8,786.9	633.5	578.4	55.14	11.489	
17,600.0	7,938.8	7,941.0	7,927.2	106.2	7.7	-76.85	-1,372.9	-8,787.2	727.7	676.4	51.29	14.187	
17,700.0	7,938.0	7,935.1	7,921.3	107.3	7.7	-75.42	-1,372.6	-8,787.5	823.1	774.8	48.34	17.028	
17,800.0	7,937.1	7,929.2	7,915.4	108.4	7.7	-74.00	-1,372.3	-8,787.8	919.5	873.5	46.03	19.975	
17,900.0	7,936.3	7,923.3	7,909.6	109.5	7.7	-72.60	-1,372.0	-8,788.1	1,016.6	972.4	44.20	23.000	
17,996.2	7,935.5	7,917.7	7,903.9	110.6	7.7	-71.26	-1,371.7	-8,788.4	1,110.4	1,067.7	42.77	25.963	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #705H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8704-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	35.0	35.0	4.2	3.0	-96.87	-1,094.1	-9,083.0	9,148.6				
100.0	100.0	135.0	135.0	4.2	3.0	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.24	1,263.080	
200.0	200.0	235.0	235.0	4.2	3.0	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.25	1,262.551	
300.0	300.0	335.0	335.0	4.3	3.0	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.25	1,261.524	
400.0	400.0	435.0	435.0	4.3	3.0	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.26	1,260.001	
500.0	500.0	535.0	535.0	4.3	3.1	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.27	1,257.989	
600.0	600.0	635.0	635.0	4.3	3.1	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.4	7.29	1,255.494	
700.0	700.0	735.0	735.0	4.3	3.1	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.3	7.30	1,252.527	
800.0	800.0	835.0	835.0	4.4	3.2	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.3	7.32	1,249.097	
900.0	900.0	935.0	935.0	4.4	3.2	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.3	7.35	1,245.216	
1,000.0	1,000.0	1,035.0	1,035.0	4.4	3.3	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.3	7.37	1,240.898	
1,100.0	1,100.0	1,135.0	1,135.0	4.5	3.3	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.2	7.40	1,236.158	
1,200.0	1,200.0	1,235.0	1,235.0	4.5	3.4	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.2	7.43	1,231.011	
1,300.0	1,300.0	1,335.0	1,335.0	4.5	3.4	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.2	7.47	1,225.474	
1,400.0	1,400.0	1,435.0	1,435.0	4.6	3.5	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.1	7.50	1,219.564	
1,500.0	1,500.0	1,535.0	1,535.0	4.6	3.6	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.1	7.54	1,213.299	
1,600.0	1,600.0	1,635.0	1,635.0	4.7	3.6	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.1	7.58	1,206.698	
1,700.0	1,700.0	1,735.0	1,735.0	4.8	3.7	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.0	7.63	1,199.780	
1,800.0	1,800.0	1,835.0	1,835.0	4.8	3.8	-96.87	-1,094.1	-9,083.0	9,148.6	9,141.0	7.67	1,192.564	
1,900.0	1,900.0	1,935.0	1,935.0	4.9	3.9	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.9	7.72	1,185.070	
2,000.0	2,000.0	2,035.0	2,035.0	5.0	4.0	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.9	7.77	1,177.317	
2,100.0	2,100.0	2,135.0	2,135.0	5.0	4.1	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.8	7.82	1,169.324	
2,200.0	2,200.0	2,235.0	2,235.0	5.1	4.1	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.8	7.88	1,161.110	
2,300.0	2,300.0	2,335.0	2,335.0	5.2	4.2	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.7	7.94	1,152.694	
2,400.0	2,400.0	2,435.0	2,435.0	5.2	4.3	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.7	8.00	1,144.095	
2,408.7	2,408.7	2,443.7	2,443.7	5.2	4.3	-96.87	-1,094.1	-9,083.0	9,148.6	9,140.6	8.00	1,143.337	
2,500.0	2,500.0	2,525.3	2,525.3	5.3	4.4	-96.87	-1,094.2	-9,083.0	9,148.7	9,140.6	8.05	1,135.864	
2,600.0	2,600.0	2,600.0	2,600.0	5.3	4.4	97.12	-1,095.8	-9,083.0	9,149.1	9,141.0	8.11	1,128.439	
2,700.0	2,699.8	2,679.6	2,679.5	5.3	4.4	97.10	-1,099.5	-9,083.0	9,150.3	9,142.2	8.16	1,120.878	
2,800.0	2,799.5	2,779.5	2,779.3	5.3	4.4	97.09	-1,104.6	-9,083.0	9,152.0	9,143.8	8.23	1,112.243	
2,900.0	2,898.9	2,879.4	2,879.0	5.3	4.3	97.12	-1,109.6	-9,083.0	9,153.9	9,145.6	8.30	1,103.461	
3,000.0	2,998.4	2,979.2	2,978.7	5.3	4.3	97.16	-1,114.7	-9,083.0	9,155.8	9,147.5	8.37	1,094.503	
3,100.0	3,097.8	3,079.1	3,078.4	5.2	4.3	97.19	-1,119.7	-9,083.0	9,157.7	9,149.3	8.44	1,085.382	
3,200.0	3,197.3	3,178.9	3,178.2	5.2	4.3	97.22	-1,124.7	-9,083.0	9,159.7	9,151.1	8.51	1,076.113	
3,300.0	3,296.7	3,278.7	3,277.9	5.2	4.2	97.26	-1,129.8	-9,083.0	9,161.6	9,153.0	8.59	1,066.709	
3,400.0	3,396.2	3,378.6	3,377.6	5.2	4.2	97.29	-1,134.8	-9,083.0	9,163.5	9,154.8	8.67	1,057.183	
3,500.0	3,495.6	3,478.4	3,477.3	5.2	4.2	97.32	-1,139.9	-9,083.0	9,165.4	9,156.7	8.75	1,047.548	
3,600.0	3,595.1	3,578.3	3,577.0	5.2	4.2	97.36	-1,144.9	-9,083.0	9,167.3	9,158.5	8.83	1,037.817	
3,700.0	3,694.5	3,678.1	3,676.7	5.2	4.2	97.39	-1,150.0	-9,083.0	9,169.3	9,160.3	8.92	1,028.002	
3,800.0	3,794.0	3,777.9	3,776.4	5.2	4.2	97.42	-1,155.0	-9,083.0	9,171.2	9,162.2	9.01	1,018.116	
3,900.0	3,893.4	3,877.8	3,876.1	5.2	4.2	97.46	-1,160.1	-9,083.0	9,173.1	9,164.0	9.10	1,008.171	
4,000.0	3,992.9	3,977.6	3,975.8	5.3	4.2	97.49	-1,165.1	-9,083.0	9,175.1	9,165.9	9.19	998.178	
4,100.0	4,092.3	4,077.4	4,075.5	5.3	4.3	97.52	-1,170.2	-9,083.0	9,177.0	9,167.7	9.29	988.147	
4,200.0	4,191.8	4,177.3	4,175.3	5.3	4.3	97.56	-1,175.2	-9,083.0	9,179.0	9,169.6	9.38	978.090	
4,300.0	4,291.2	4,277.1	4,275.0	5.3	4.3	97.59	-1,180.3	-9,083.0	9,180.9	9,171.4	9.48	968.016	
4,400.0	4,390.7	4,377.0	4,374.7	5.4	4.3	97.62	-1,185.3	-9,083.0	9,182.9	9,173.3	9.59	957.935	
4,500.0	4,490.1	4,476.8	4,474.4	5.4	4.4	97.66	-1,190.4	-9,083.0	9,184.8	9,175.1	9.69	947.857	
4,600.0	4,589.6	4,576.6	4,574.1	5.5	4.4	97.69	-1,195.4	-9,083.0	9,186.8	9,177.0	9.80	937.790	
4,700.0	4,689.0	4,676.5	4,673.8	5.5	4.4	97.72	-1,200.5	-9,083.0	9,188.7	9,178.8	9.90	927.743	
4,800.0	4,788.5	4,776.3	4,773.5	5.6	4.5	97.76	-1,205.5	-9,083.0	9,190.7	9,180.7	10.01	917.722	
4,900.0	4,887.9	4,876.1	4,873.2	5.6	4.5	97.79	-1,210.5	-9,083.0	9,192.7	9,182.5	10.13	907.737	
5,000.0	4,987.4	4,976.0	4,972.9	5.7	4.6	97.82	-1,215.6	-9,083.0	9,194.6	9,184.4	10.24	897.794	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #705H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8704-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,086.9	5,075.8	5,072.6	5.7	4.6	97.86	-1,220.6	-9,083.0	9,196.6	9,186.2	10.36	887.898	
5,200.0	5,186.3	5,175.7	5,172.4	5.8	4.7	97.89	-1,225.7	-9,083.0	9,198.6	9,188.1	10.48	878.058	
5,300.0	5,285.8	5,275.5	5,272.1	5.9	4.7	97.92	-1,230.7	-9,083.0	9,200.6	9,190.0	10.60	868.277	
5,400.0	5,385.2	5,375.3	5,371.8	5.9	4.8	97.96	-1,235.8	-9,083.0	9,202.5	9,191.8	10.72	858.562	
5,500.0	5,484.7	5,475.2	5,471.5	6.0	4.9	97.99	-1,240.8	-9,083.0	9,204.5	9,193.7	10.84	848.917	
5,600.0	5,584.1	5,575.0	5,571.2	6.1	4.9	98.02	-1,245.9	-9,083.0	9,206.5	9,195.5	10.97	839.347	
5,700.0	5,683.6	5,674.8	5,670.9	6.1	5.0	98.06	-1,250.9	-9,083.0	9,208.5	9,197.4	11.10	829.855	
5,800.0	5,783.0	5,774.7	5,770.6	6.2	5.1	98.09	-1,256.0	-9,083.0	9,210.5	9,199.3	11.23	820.447	
5,900.0	5,882.5	5,874.5	5,870.3	6.3	5.1	98.12	-1,261.0	-9,083.0	9,212.5	9,201.1	11.36	811.125	
6,000.0	5,981.9	5,974.4	5,970.0	6.4	5.2	98.16	-1,266.1	-9,083.0	9,214.5	9,203.0	11.49	801.892	
6,100.0	6,081.4	6,074.2	6,069.7	6.4	5.3	98.19	-1,271.1	-9,083.0	9,216.5	9,204.9	11.63	792.751	
6,200.0	6,180.8	6,174.0	6,169.5	6.5	5.4	98.22	-1,276.2	-9,083.0	9,218.5	9,206.8	11.76	783.704	
6,300.0	6,280.3	6,273.9	6,269.2	6.6	5.4	98.26	-1,281.2	-9,083.0	9,220.5	9,208.6	11.90	774.755	
6,400.0	6,379.7	6,373.7	6,368.9	6.7	5.5	98.29	-1,286.2	-9,083.0	9,222.5	9,210.5	12.04	765.904	
6,500.0	6,479.2	6,473.5	6,468.6	6.8	5.6	98.32	-1,291.3	-9,083.0	9,224.6	9,212.4	12.18	757.154	
6,600.0	6,578.6	6,573.4	6,568.3	6.8	5.7	98.35	-1,296.3	-9,083.0	9,226.6	9,214.2	12.33	748.505	
6,700.0	6,678.1	6,673.2	6,668.0	6.9	5.8	98.39	-1,301.4	-9,083.0	9,228.6	9,216.1	12.47	739.960	
6,800.0	6,777.5	6,773.1	6,767.7	7.0	5.9	98.42	-1,306.4	-9,083.0	9,230.6	9,218.0	12.62	731.518	
6,900.0	6,877.0	6,872.9	6,867.4	7.1	6.0	98.45	-1,311.5	-9,083.0	9,232.6	9,219.9	12.77	723.182	
7,000.0	6,976.4	6,972.7	6,967.1	7.2	6.1	98.49	-1,316.5	-9,083.0	9,234.7	9,221.8	12.92	714.951	
7,100.0	7,075.9	7,072.6	7,066.8	7.3	6.1	98.52	-1,321.6	-9,083.0	9,236.7	9,223.6	13.07	706.826	
7,200.0	7,175.3	7,172.4	7,166.6	7.4	6.2	98.55	-1,326.6	-9,083.0	9,238.8	9,225.5	13.22	698.807	
7,300.0	7,274.8	7,272.2	7,266.3	7.5	6.3	98.59	-1,331.7	-9,083.0	9,240.8	9,227.4	13.38	690.895	
7,400.0	7,374.3	7,372.1	7,366.0	7.6	6.4	98.62	-1,336.7	-9,083.0	9,242.8	9,229.3	13.53	683.089	
7,500.0	7,473.7	7,471.9	7,465.7	7.7	6.5	98.65	-1,341.8	-9,083.0	9,244.9	9,231.2	13.69	675.389	
7,580.8	7,554.1	7,552.6	7,546.3	7.7	6.6	98.68	-1,346.8	-9,083.0	9,246.5	9,232.8	13.78	670.990	
7,600.0	7,573.1	7,571.8	7,565.4	7.7	6.6	80.40	-1,346.8	-9,083.0	9,246.6	9,232.8	13.79	670.332	
7,625.0	7,597.9	7,596.6	7,590.3	7.7	6.7	64.73	-1,348.1	-9,083.0	9,245.6	9,231.8	13.81	669.299	
7,650.0	7,622.5	7,621.4	7,615.0	7.7	6.7	55.40	-1,349.3	-9,083.0	9,243.4	9,229.6	13.84	668.054	
7,675.0	7,646.9	7,646.0	7,639.5	7.7	6.7	49.59	-1,350.6	-9,083.0	9,240.1	9,226.2	13.86	666.606	
7,700.0	7,670.9	7,670.3	7,663.8	7.7	6.7	45.80	-1,351.8	-9,083.0	9,235.6	9,221.7	13.89	664.958	
7,725.0	7,694.7	7,694.3	7,687.8	7.8	6.8	43.25	-1,353.0	-9,083.0	9,229.9	9,216.0	13.92	663.112	
7,750.0	7,718.0	7,717.9	7,711.3	7.8	6.8	41.51	-1,354.2	-9,083.0	9,223.1	9,209.2	13.95	661.072	
7,775.0	7,740.8	7,741.0	7,734.4	7.8	6.8	40.35	-1,355.4	-9,083.0	9,215.2	9,201.2	13.99	658.843	
7,800.0	7,763.0	7,763.6	7,757.0	7.8	6.8	39.62	-1,356.5	-9,083.0	9,206.2	9,192.2	14.02	656.430	
7,825.0	7,784.7	7,785.7	7,779.0	7.8	6.9	39.23	-1,357.6	-9,083.0	9,196.1	9,182.0	14.06	653.839	
7,850.0	7,805.7	7,807.1	7,800.4	7.9	6.9	39.14	-1,358.7	-9,083.0	9,185.0	9,170.9	14.11	651.080	
7,875.0	7,825.9	7,827.7	7,821.0	7.9	6.9	39.29	-1,359.8	-9,083.0	9,172.8	9,158.7	14.15	648.162	
7,900.0	7,845.4	7,847.7	7,840.9	7.9	6.9	39.68	-1,360.8	-9,083.0	9,159.7	9,145.5	14.20	645.097	
7,925.0	7,864.0	7,866.8	7,860.0	8.0	6.9	40.29	-1,361.7	-9,083.0	9,145.7	9,131.5	14.25	641.899	
7,950.0	7,881.7	7,885.0	7,878.3	8.0	7.0	41.12	-1,362.6	-9,083.0	9,130.8	9,116.5	14.30	638.582	
7,975.0	7,898.5	7,902.3	7,895.6	8.1	7.0	42.17	-1,363.5	-9,083.0	9,115.0	9,100.6	14.35	635.163	
8,000.0	7,914.4	7,918.7	7,911.9	8.1	7.0	43.46	-1,364.4	-9,083.0	9,098.4	9,084.0	14.40	631.661	
8,025.0	7,929.2	7,934.1	7,927.2	8.1	7.0	45.01	-1,365.1	-9,083.0	9,081.0	9,066.5	14.46	628.094	
8,050.0	7,942.9	7,948.4	7,941.5	8.2	7.0	46.83	-1,365.9	-9,083.0	9,062.9	9,048.4	14.51	624.481	
8,075.0	7,955.5	7,961.6	7,954.7	8.2	7.0	48.94	-1,366.5	-9,083.0	9,044.1	9,029.6	14.57	620.843	
8,100.0	7,967.0	7,973.7	7,966.8	8.3	7.0	51.38	-1,367.1	-9,083.0	9,024.8	9,010.1	14.62	617.200	
8,125.0	7,977.3	7,984.6	7,977.7	8.3	7.1	54.19	-1,367.7	-9,083.0	9,004.8	8,990.2	14.68	613.570	
8,150.0	7,986.4	7,994.3	7,987.4	8.4	7.1	57.38	-1,368.2	-9,083.0	8,984.4	8,969.7	14.73	609.973	
8,175.0	7,994.3	8,002.9	7,996.0	8.5	7.1	61.00	-1,368.6	-9,083.0	8,963.5	8,948.7	14.78	606.426	
8,200.0	8,001.0	8,010.2	8,003.2	8.5	7.1	65.07	-1,369.0	-9,083.0	8,942.2	8,927.4	14.83	602.945	
8,225.0	8,006.3	8,016.2	8,009.3	8.6	7.1	69.59	-1,369.3	-9,083.0	8,920.6	8,905.8	14.88	599.544	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #705H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8704-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,250.0	8,010.4	8,020.9	8,014.0	8.7	7.1	74.56	-1,369.5	-9,083.0	8,898.8	8,883.8	14.92	596.235	
8,275.0	8,013.3	8,024.4	8,017.5	8.8	7.1	79.93	-1,369.7	-9,083.0	8,876.7	8,861.7	14.97	593.031	
8,300.0	8,014.8	8,026.6	8,019.6	8.9	7.1	85.64	-1,369.8	-9,083.0	8,854.4	8,839.4	15.01	589.938	
8,320.6	8,015.1	8,027.4	8,020.4	9.0	7.1	90.51	-1,369.8	-9,083.0	8,836.0	8,821.0	15.04	587.469	
8,400.0	8,014.4	8,028.7	8,021.7	9.5	7.1	90.58	-1,369.9	-9,083.0	8,764.6	8,749.5	15.16	577.962	
8,500.0	8,013.6	8,030.2	8,023.3	10.1	7.1	90.68	-1,370.0	-9,083.0	8,673.6	8,658.2	15.34	565.468	
8,600.0	8,012.7	8,031.6	8,024.6	10.8	7.1	90.78	-1,370.1	-9,083.0	8,581.3	8,565.8	15.53	552.728	
8,700.0	8,011.9	8,032.8	8,025.8	11.5	7.1	90.91	-1,370.1	-9,083.0	8,487.9	8,472.2	15.72	539.977	
8,800.0	8,011.1	8,033.8	8,026.9	12.4	7.1	91.05	-1,370.2	-9,083.0	8,393.4	8,377.5	15.92	527.385	
8,900.0	8,010.2	8,034.7	8,027.8	13.2	7.1	91.22	-1,370.2	-9,083.0	8,298.0	8,281.9	16.11	515.090	
9,000.0	8,009.4	8,035.4	8,028.5	14.1	7.1	91.42	-1,370.3	-9,083.0	8,201.7	8,185.4	16.30	503.202	
9,100.0	8,008.5	8,035.9	8,029.0	15.0	7.1	91.67	-1,370.3	-9,083.0	8,104.5	8,088.1	16.48	491.805	
9,200.0	8,007.7	8,036.3	8,029.4	15.9	7.1	92.00	-1,370.3	-9,083.0	8,006.7	7,990.0	16.65	480.963	
9,300.0	8,006.8	8,036.5	8,029.5	16.8	7.1	92.46	-1,370.3	-9,083.0	7,908.2	7,891.4	16.80	470.722	
9,400.0	8,006.0	8,036.5	8,029.6	17.7	7.1	93.15	-1,370.3	-9,083.0	7,809.2	7,792.3	16.94	461.114	
9,500.0	8,005.1	8,036.4	8,029.4	18.7	7.1	94.33	-1,370.3	-9,083.0	7,709.8	7,692.8	17.05	452.159	
9,600.0	8,004.3	8,036.1	8,029.1	19.6	7.1	96.85	-1,370.3	-9,083.0	7,610.1	7,593.0	17.15	443.868	
9,700.0	8,003.5	8,035.6	8,028.6	20.6	7.1	106.37	-1,370.3	-9,083.0	7,510.2	7,493.0	17.22	436.243	
9,800.0	8,002.7	8,034.9	8,028.0	21.6	7.1	-121.57	-1,370.2	-9,083.0	7,410.2	7,393.0	17.26	429.281	
9,815.2	8,002.5	8,034.8	8,027.8	21.7	7.1	-112.54	-1,370.2	-9,083.0	7,395.0	7,377.7	17.27	428.278	
9,900.0	8,001.8	8,034.1	8,027.2	22.5	7.1	-112.29	-1,370.2	-9,083.0	7,310.2	7,292.9	17.29	422.728	
10,000.0	8,001.0	8,033.4	8,026.4	23.5	7.1	-111.99	-1,370.1	-9,083.0	7,210.2	7,192.9	17.33	416.156	
10,100.0	8,000.2	8,032.6	8,025.7	24.5	7.1	-111.68	-1,370.1	-9,083.0	7,110.3	7,092.9	17.36	409.559	
10,200.0	7,999.4	8,031.8	8,024.9	25.5	7.1	-111.38	-1,370.1	-9,083.0	7,010.3	6,992.9	17.40	402.942	
10,300.0	7,998.6	8,031.1	8,024.1	26.5	7.1	-111.07	-1,370.0	-9,083.0	6,910.3	6,892.9	17.44	396.308	
10,400.0	7,997.8	8,030.3	8,023.3	27.6	7.1	-110.76	-1,370.0	-9,083.0	6,810.3	6,792.8	17.48	389.658	
10,500.0	7,996.9	8,029.5	8,022.6	28.6	7.1	-110.45	-1,370.0	-9,083.0	6,710.3	6,692.8	17.52	382.998	
10,600.0	7,996.1	8,028.8	8,021.8	29.6	7.1	-110.14	-1,369.9	-9,083.0	6,610.4	6,592.8	17.57	376.329	
10,700.0	7,995.3	8,028.0	8,021.0	30.7	7.1	-109.83	-1,369.9	-9,083.0	6,510.4	6,492.8	17.61	369.655	
10,800.0	7,994.5	8,027.2	8,020.3	31.7	7.1	-109.51	-1,369.8	-9,083.0	6,410.4	6,392.7	17.66	362.978	
10,900.0	7,993.7	8,026.5	8,019.5	32.8	7.1	-109.20	-1,369.8	-9,083.0	6,310.4	6,292.7	17.71	356.302	
11,000.0	7,992.8	8,025.7	8,018.7	33.8	7.1	-108.88	-1,369.8	-9,083.0	6,210.4	6,192.7	17.76	349.629	
11,100.0	7,992.0	8,024.9	8,018.0	34.9	7.1	-108.56	-1,369.7	-9,083.0	6,110.5	6,092.6	17.82	342.962	
11,200.0	7,991.2	8,024.1	8,017.2	35.9	7.1	-108.24	-1,369.7	-9,083.0	6,010.5	5,992.6	17.87	336.304	
11,300.0	7,990.4	8,023.4	8,016.4	37.0	7.1	-107.92	-1,369.6	-9,083.0	5,910.5	5,892.6	17.93	329.656	
11,400.0	7,989.6	8,022.6	8,015.7	38.1	7.1	-107.60	-1,369.6	-9,083.0	5,810.5	5,792.5	17.99	323.023	
11,500.0	7,988.8	8,021.8	8,014.9	39.1	7.1	-107.27	-1,369.6	-9,083.0	5,710.6	5,692.5	18.05	316.405	
11,600.0	7,987.9	8,021.1	8,014.1	40.2	7.1	-106.95	-1,369.5	-9,083.0	5,610.6	5,592.5	18.11	309.806	
11,700.0	7,987.1	8,020.3	8,013.4	41.3	7.1	-106.62	-1,369.5	-9,083.0	5,510.6	5,492.4	18.17	303.227	
11,800.0	7,986.3	8,019.5	8,012.6	42.4	7.1	-106.29	-1,369.4	-9,083.0	5,410.6	5,392.4	18.24	296.671	
11,900.0	7,985.5	8,018.8	8,011.8	43.4	7.1	-105.96	-1,369.4	-9,083.0	5,310.7	5,292.4	18.30	290.139	
12,000.0	7,984.7	8,018.0	8,011.1	44.5	7.1	-105.63	-1,369.4	-9,083.0	5,210.7	5,192.3	18.37	283.634	
12,100.0	7,983.9	8,017.2	8,010.3	45.6	7.1	-105.30	-1,369.3	-9,083.0	5,110.7	5,092.3	18.44	277.157	
12,200.0	7,983.0	8,016.5	8,009.5	46.7	7.1	-104.97	-1,369.3	-9,083.0	5,010.7	4,992.2	18.51	270.710	
12,300.0	7,982.2	8,015.7	8,008.8	47.8	7.1	-104.63	-1,369.3	-9,083.0	4,910.8	4,892.2	18.58	264.294	
12,400.0	7,981.4	8,014.9	8,008.0	48.9	7.1	-104.30	-1,369.2	-9,083.0	4,810.8	4,792.2	18.65	257.912	
12,500.0	7,980.6	8,014.1	8,007.2	50.0	7.1	-103.96	-1,369.2	-9,083.0	4,710.8	4,692.1	18.73	251.564	
12,600.0	7,979.8	8,013.4	8,006.5	51.0	7.1	-103.62	-1,369.1	-9,083.0	4,610.9	4,592.1	18.80	245.252	
12,700.0	7,979.0	8,012.6	8,005.7	52.1	7.1	-103.28	-1,369.1	-9,083.0	4,510.9	4,492.0	18.88	238.978	
12,800.0	7,978.1	8,011.8	8,004.9	53.2	7.1	-102.94	-1,369.1	-9,083.0	4,411.0	4,392.0	18.95	232.741	
12,900.0	7,977.3	8,011.1	8,004.1	54.3	7.1	-102.60	-1,369.0	-9,083.0	4,311.0	4,292.0	19.03	226.544	
13,000.0	7,976.5	8,010.3	8,003.4	55.4	7.1	-102.26	-1,369.0	-9,083.0	4,211.0	4,191.9	19.11	220.387	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #705H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8704-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.0	7,975.7	8,009.5	8,002.6	56.5	7.1	-101.91	-1,368.9	-9,083.0	4,111.1	4,091.9	19.19	214.271	
13,171.4	7,975.1	8,009.0	8,002.1	57.3	7.1	-101.67	-1,368.9	-9,083.0	4,039.7	4,020.5	19.24	209.931	
13,200.0	7,974.9	8,008.8	8,001.8	57.6	7.1	-98.74	-1,368.9	-9,083.0	4,011.1	3,991.9	19.26	208.212	
13,245.7	7,974.5	8,008.4	8,001.4	58.1	7.1	-96.21	-1,368.9	-9,083.0	3,965.5	3,946.2	19.29	205.531	
13,300.0	7,974.0	8,007.9	8,001.0	58.7	7.1	-96.08	-1,368.9	-9,083.0	3,911.3	3,892.0	19.32	202.398	
13,400.0	7,973.2	8,007.0	8,000.1	59.8	7.1	-95.86	-1,368.8	-9,083.0	3,811.5	3,792.1	19.38	196.640	
13,500.0	7,972.4	8,006.1	7,999.1	60.9	7.1	-95.63	-1,368.8	-9,083.0	3,711.6	3,692.2	19.44	190.907	
13,600.0	7,971.6	8,005.2	7,998.2	62.0	7.1	-95.40	-1,368.7	-9,083.0	3,611.8	3,592.3	19.50	185.199	
13,700.0	7,970.8	8,004.3	7,997.3	63.1	7.1	-95.18	-1,368.7	-9,083.0	3,512.0	3,492.5	19.56	179.516	
13,800.0	7,969.9	8,003.4	7,996.4	64.2	7.1	-94.95	-1,368.6	-9,083.0	3,412.2	3,392.6	19.63	173.856	
13,900.0	7,969.1	8,002.5	7,995.5	65.3	7.1	-94.72	-1,368.6	-9,083.0	3,312.5	3,292.8	19.69	168.220	
14,000.0	7,968.3	8,001.6	7,994.6	66.4	7.1	-94.49	-1,368.5	-9,083.0	3,212.7	3,192.9	19.76	162.607	
14,100.0	7,967.5	8,000.6	7,993.7	67.5	7.1	-94.26	-1,368.5	-9,083.0	3,113.0	3,093.1	19.83	157.016	
14,200.0	7,966.7	7,999.7	7,992.8	68.6	7.1	-94.04	-1,368.4	-9,083.0	3,013.2	2,993.3	19.90	151.445	
14,300.0	7,965.8	7,998.8	7,991.9	69.7	7.1	-93.81	-1,368.4	-9,083.0	2,913.5	2,893.5	19.97	145.893	
14,400.0	7,965.0	7,997.9	7,991.0	70.8	7.1	-93.58	-1,368.4	-9,083.0	2,813.8	2,793.8	20.05	140.358	
14,500.0	7,964.2	7,997.0	7,990.1	71.9	7.1	-93.35	-1,368.3	-9,083.0	2,714.2	2,694.0	20.13	134.838	
14,600.0	7,963.4	7,996.1	7,989.2	73.0	7.1	-93.12	-1,368.3	-9,083.0	2,614.5	2,594.3	20.22	129.330	
14,700.0	7,962.6	7,995.2	7,988.3	74.1	7.1	-92.89	-1,368.2	-9,083.0	2,514.9	2,494.6	20.31	123.830	
14,800.0	7,961.7	7,994.3	7,987.4	75.2	7.1	-92.66	-1,368.2	-9,083.0	2,415.3	2,394.9	20.41	118.336	
14,900.0	7,960.9	7,993.4	7,986.5	76.3	7.1	-92.43	-1,368.1	-9,083.0	2,315.8	2,295.2	20.52	112.844	
15,000.0	7,960.1	7,992.5	7,985.6	77.4	7.1	-92.20	-1,368.1	-9,083.0	2,216.2	2,195.6	20.65	107.348	
15,100.0	7,959.3	7,991.6	7,984.7	78.5	7.1	-91.97	-1,368.0	-9,083.0	2,116.8	2,096.0	20.78	101.843	
15,200.0	7,958.5	7,990.7	7,983.8	79.6	7.1	-91.74	-1,368.0	-9,083.0	2,017.4	1,996.4	20.94	96.324	
15,300.0	7,957.6	7,989.8	7,982.9	80.7	7.1	-91.51	-1,367.9	-9,083.0	1,918.0	1,896.9	21.13	90.784	
15,400.0	7,956.8	7,988.9	7,982.0	81.8	7.1	-91.28	-1,367.9	-9,083.0	1,818.7	1,797.4	21.34	85.216	
15,500.0	7,956.0	7,988.0	7,981.1	82.9	7.1	-91.05	-1,367.9	-9,083.0	1,719.5	1,697.9	21.60	79.614	
15,600.0	7,955.2	7,987.1	7,980.2	84.0	7.1	-90.82	-1,367.8	-9,083.0	1,620.4	1,598.5	21.91	73.972	
15,700.0	7,954.4	7,986.2	7,979.3	85.1	7.1	-90.59	-1,367.8	-9,083.0	1,521.5	1,499.2	22.28	68.284	
15,800.0	7,953.5	7,985.3	7,978.4	86.2	7.1	-90.36	-1,367.7	-9,083.0	1,422.6	1,399.9	22.74	62.549	
15,900.0	7,952.7	7,984.4	7,977.5	87.3	7.1	-90.13	-1,367.7	-9,083.0	1,324.0	1,300.6	23.32	56.769	
16,000.0	7,951.9	7,983.5	7,976.6	88.4	7.1	-89.89	-1,367.6	-9,083.0	1,225.5	1,201.5	24.05	50.953	
16,100.0	7,951.1	7,982.6	7,975.7	89.5	7.1	-89.66	-1,367.6	-9,083.0	1,127.3	1,102.4	24.98	45.122	
16,200.0	7,950.3	7,981.7	7,974.8	90.6	7.1	-89.43	-1,367.5	-9,083.0	1,029.5	1,003.3	26.19	39.311	
16,300.0	7,949.4	7,980.8	7,973.9	91.8	7.1	-89.20	-1,367.5	-9,083.0	932.1	904.4	27.76	33.575	
16,400.0	7,948.6	7,979.9	7,973.0	92.9	7.1	-88.97	-1,367.4	-9,083.0	835.4	805.5	29.85	27.989	
16,500.0	7,947.8	7,979.0	7,972.1	94.0	7.1	-88.74	-1,367.4	-9,083.0	739.5	706.9	32.65	22.653	
16,600.0	7,947.0	7,978.1	7,971.2	95.1	7.1	-88.51	-1,367.4	-9,083.0	644.9	608.4	36.46	17.686	
16,700.0	7,946.2	7,977.2	7,970.3	96.2	7.1	-88.27	-1,367.3	-9,083.0	552.2	510.4	41.77	13.217	
16,800.0	7,945.3	7,976.3	7,969.4	97.3	7.0	-88.04	-1,367.3	-9,083.0	462.5	413.1	49.31	9.378	
16,900.0	7,944.5	7,975.4	7,968.5	98.4	7.0	-87.81	-1,367.2	-9,083.0	378.0	317.8	60.19	6.280	
17,000.0	7,943.7	7,974.5	7,967.6	99.5	7.0	-87.58	-1,367.2	-9,083.0	303.1	227.4	75.63	4.007	
17,100.0	7,942.9	7,973.6	7,966.7	100.6	7.0	-87.35	-1,367.1	-9,083.0	246.7	151.9	94.73	2.604	
17,200.0	7,942.1	7,972.7	7,965.8	101.7	7.0	-87.11	-1,367.1	-9,083.0	223.2	115.0	108.20	2.063	
17,205.1	7,942.0	7,972.6	7,965.7	101.8	7.0	-87.10	-1,367.1	-9,083.0	223.2	114.7	108.46	2.058 CC, ES, SF	
17,300.0	7,941.2	7,971.7	7,964.9	102.8	7.0	-86.88	-1,367.0	-9,083.0	242.5	138.1	104.41	2.323	
17,400.0	7,940.4	7,970.8	7,964.0	103.9	7.0	-86.65	-1,367.0	-9,083.0	296.3	205.8	90.49	3.274	
17,500.0	7,939.6	7,969.9	7,963.1	105.1	7.0	-86.42	-1,366.9	-9,083.0	369.8	292.6	77.18	4.792	
17,600.0	7,938.8	7,969.0	7,962.2	106.2	7.0	-86.19	-1,366.9	-9,083.0	453.6	386.5	67.12	6.758	
17,700.0	7,938.0	7,968.1	7,961.3	107.3	7.0	-85.96	-1,366.9	-9,083.0	542.9	483.1	59.83	9.074	
17,800.0	7,937.1	7,967.2	7,960.4	108.4	7.0	-85.72	-1,366.8	-9,083.0	635.4	580.9	54.49	11.660	
17,900.0	7,936.3	7,966.3	7,959.5	109.5	7.0	-85.49	-1,366.8	-9,083.0	729.9	679.4	50.50	14.453	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #705H - OWB - PWP3												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8704-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,996.2	7,935.5	7,965.5	7,958.6	110.6	7.0	-85.27	-1,366.7	-9,083.0	822.0	774.5	47.54	17.289	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #706H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	35.0	35.0	4.2	3.0	-96.84	-1,093.6	-9,112.9	9,178.3				
100.0	100.0	135.0	135.0	4.2	3.0	-96.84	-1,093.6	-9,112.9	9,178.3	9,171.0	7.25	1,265.411	
200.0	200.0	235.0	235.0	4.2	3.1	-96.84	-1,093.6	-9,112.9	9,178.3	9,171.0	7.30	1,256.437	
300.0	300.0	335.0	335.0	4.3	3.2	-96.84	-1,093.6	-9,112.9	9,178.3	9,170.9	7.40	1,240.610	
400.0	400.0	435.0	435.0	4.3	3.3	-96.84	-1,093.6	-9,112.9	9,178.3	9,170.7	7.53	1,218.985	
500.0	500.0	535.0	535.0	4.3	3.4	-96.84	-1,093.6	-9,112.9	9,178.3	9,170.6	7.69	1,192.817	
600.0	600.0	635.0	635.0	4.3	3.6	-96.84	-1,093.6	-9,112.9	9,178.3	9,170.4	7.89	1,163.369	
700.0	700.0	735.0	735.0	4.3	3.8	-96.84	-1,093.6	-9,112.9	9,178.3	9,170.2	8.11	1,131.785	
800.0	800.0	835.0	835.0	4.4	4.1	-96.84	-1,093.6	-9,112.9	9,178.3	9,169.9	8.35	1,099.022	
900.0	900.0	935.0	935.0	4.4	4.3	-96.84	-1,093.6	-9,112.9	9,178.3	9,169.7	8.61	1,065.836	
1,000.0	1,000.0	1,035.0	1,035.0	4.4	4.6	-96.84	-1,093.6	-9,112.9	9,178.3	9,169.4	8.89	1,032.794	
1,100.0	1,100.0	1,135.0	1,135.0	4.5	4.9	-96.84	-1,093.6	-9,112.9	9,178.3	9,169.1	9.18	1,000.307	
1,200.0	1,200.0	1,235.0	1,235.0	4.5	5.2	-96.84	-1,093.6	-9,112.9	9,178.3	9,168.8	9.48	968.656	
1,300.0	1,300.0	1,335.0	1,335.0	4.5	5.5	-96.84	-1,093.6	-9,112.9	9,178.3	9,168.5	9.78	938.027	
1,400.0	1,400.0	1,435.0	1,435.0	4.6	5.8	-96.84	-1,093.6	-9,112.9	9,178.3	9,168.2	10.10	908.531	
1,500.0	1,500.0	1,535.0	1,535.0	4.6	6.1	-96.84	-1,093.6	-9,112.9	9,178.3	9,167.8	10.43	880.227	
1,600.0	1,600.0	1,635.0	1,635.0	4.7	6.4	-96.84	-1,093.6	-9,112.9	9,178.3	9,167.5	10.76	853.133	
1,700.0	1,700.0	1,735.0	1,735.0	4.8	6.7	-96.84	-1,093.6	-9,112.9	9,178.3	9,167.2	11.10	827.243	
1,800.0	1,800.0	1,835.0	1,835.0	4.8	7.0	-96.84	-1,093.6	-9,112.9	9,178.3	9,166.8	11.44	802.532	
1,900.0	1,900.0	1,935.0	1,935.0	4.9	7.3	-96.84	-1,093.6	-9,112.9	9,178.3	9,166.5	11.78	778.963	
2,000.0	2,000.0	2,035.0	2,035.0	5.0	7.7	-96.84	-1,093.6	-9,112.9	9,178.3	9,166.1	12.13	756.492	
2,100.0	2,100.0	2,135.0	2,135.0	5.0	8.0	-96.84	-1,093.6	-9,112.9	9,178.3	9,165.8	12.49	735.070	
2,200.0	2,200.0	2,235.0	2,235.0	5.1	8.3	-96.84	-1,093.6	-9,112.9	9,178.3	9,165.4	12.84	714.645	
2,300.0	2,300.0	2,335.0	2,335.0	5.2	8.7	-96.84	-1,093.6	-9,112.9	9,178.3	9,165.1	13.20	695.167	
2,400.0	2,400.0	2,435.0	2,435.0	5.2	9.0	-96.84	-1,093.6	-9,112.9	9,178.3	9,164.7	13.57	676.586	
2,408.7	2,408.7	2,443.7	2,443.7	5.2	9.0	-96.84	-1,093.6	-9,112.9	9,178.3	9,164.7	13.60	675.007	
2,500.0	2,500.0	2,500.0	2,500.0	5.3	9.2	-96.84	-1,093.6	-9,112.9	9,178.3	9,164.5	13.81	664.524	
2,600.0	2,600.0	2,537.7	2,537.7	5.3	9.4	97.14	-1,093.7	-9,113.1	9,179.2	9,165.2	13.96	657.481	
2,700.0	2,699.8	2,600.0	2,600.0	5.3	9.6	97.12	-1,094.8	-9,114.2	9,181.5	9,167.3	14.19	646.991	
2,800.0	2,799.5	2,600.0	2,600.0	5.3	9.6	97.06	-1,094.8	-9,114.2	9,184.6	9,170.4	14.22	645.986	
2,900.0	2,898.9	2,600.0	2,600.0	5.3	9.6	97.06	-1,094.8	-9,114.2	9,189.0	9,174.8	14.25	645.070	
3,000.0	2,998.4	2,649.3	2,649.2	5.3	9.7	97.08	-1,096.2	-9,115.7	9,194.0	9,179.6	14.43	637.215	
3,100.0	3,097.8	2,700.0	2,699.8	5.2	9.9	97.10	-1,098.3	-9,118.0	9,200.0	9,185.4	14.62	629.368	
3,200.0	3,197.3	2,700.0	2,699.8	5.2	9.9	97.10	-1,098.3	-9,118.0	9,206.6	9,192.0	14.65	628.569	
3,300.0	3,296.7	2,732.8	2,732.6	5.2	10.0	97.11	-1,100.0	-9,119.8	9,214.0	9,199.3	14.78	623.335	
3,400.0	3,396.2	2,769.0	2,768.6	5.2	10.1	97.13	-1,102.2	-9,122.1	9,222.3	9,207.3	14.93	617.747	
3,500.0	3,495.6	2,868.5	2,867.7	5.2	10.4	97.16	-1,108.3	-9,128.5	9,230.8	9,215.5	15.28	603.978	
3,600.0	3,595.1	2,968.0	2,966.8	5.2	10.7	97.19	-1,114.5	-9,135.0	9,239.3	9,223.7	15.64	590.638	
3,700.0	3,694.5	3,067.5	3,065.9	5.2	11.0	97.22	-1,120.6	-9,141.5	9,247.8	9,231.8	16.01	577.756	
3,800.0	3,794.0	3,167.0	3,165.0	5.2	11.4	97.25	-1,126.7	-9,148.0	9,256.4	9,240.0	16.37	565.306	
3,900.0	3,893.4	3,266.6	3,264.2	5.2	11.7	97.28	-1,132.8	-9,154.5	9,264.9	9,248.2	16.75	553.276	
4,000.0	3,992.9	3,366.1	3,363.3	5.3	12.0	97.31	-1,139.0	-9,161.0	9,273.5	9,256.3	17.12	541.651	
4,100.0	4,092.3	3,465.6	3,462.4	5.3	12.4	97.34	-1,145.1	-9,167.5	9,282.0	9,264.5	17.50	530.419	
4,200.0	4,191.8	3,565.1	3,561.5	5.3	12.7	97.37	-1,151.2	-9,174.0	9,290.5	9,272.7	17.88	519.565	
4,300.0	4,291.2	3,664.6	3,660.6	5.3	13.0	97.40	-1,157.3	-9,180.5	9,299.1	9,280.8	18.27	509.075	
4,400.0	4,390.7	3,764.1	3,759.7	5.4	13.4	97.43	-1,163.5	-9,187.0	9,307.6	9,289.0	18.65	498.936	
4,500.0	4,490.1	3,863.6	3,858.8	5.4	13.7	97.47	-1,169.6	-9,193.5	9,316.2	9,297.1	19.05	489.134	
4,600.0	4,589.6	3,963.1	3,957.9	5.5	14.0	97.50	-1,175.7	-9,200.0	9,324.7	9,305.3	19.44	479.656	
4,700.0	4,689.0	4,062.6	4,057.0	5.5	14.4	97.53	-1,181.8	-9,206.5	9,333.3	9,313.5	19.84	470.489	
4,800.0	4,788.5	4,162.1	4,156.1	5.6	14.7	97.56	-1,188.0	-9,213.0	9,341.9	9,321.6	20.24	461.620	
4,900.0	4,887.9	4,261.7	4,255.2	5.6	15.1	97.59	-1,194.1	-9,219.5	9,350.4	9,329.8	20.64	453.037	
5,000.0	4,987.4	4,361.2	4,354.4	5.7	15.4	97.62	-1,200.2	-9,226.0	9,359.0	9,337.9	21.04	444.730	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #706H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	4,460.7	4,453.5	5.7	15.8	97.65	-1,206.4	-9,232.5	9,367.5	9,346.1	21.45	436.686	
5,200.0	5,186.3	4,560.2	4,552.6	5.8	16.1	97.68	-1,212.5	-9,239.0	9,376.1	9,354.3	21.86	428.894	
5,300.0	5,285.8	4,659.7	4,651.7	5.9	16.4	97.71	-1,218.6	-9,245.5	9,384.7	9,362.4	22.27	421.346	
5,400.0	5,385.2	4,759.2	4,750.8	5.9	16.8	97.74	-1,224.7	-9,252.0	9,393.3	9,370.6	22.69	414.030	
5,500.0	5,484.7	4,858.7	4,849.9	6.0	17.1	97.77	-1,230.9	-9,258.5	9,401.8	9,378.7	23.10	406.938	
5,600.0	5,584.1	4,958.2	4,949.0	6.1	17.5	97.80	-1,237.0	-9,265.0	9,410.4	9,386.9	23.52	400.060	
5,700.0	5,683.6	5,057.7	5,048.1	6.1	17.8	97.83	-1,243.1	-9,271.5	9,419.0	9,395.1	23.94	393.388	
5,800.0	5,783.0	5,157.3	5,147.2	6.2	18.2	97.86	-1,249.2	-9,278.0	9,427.6	9,403.2	24.37	386.914	
5,900.0	5,882.5	5,256.8	5,246.3	6.3	18.5	97.89	-1,255.4	-9,284.4	9,436.2	9,411.4	24.79	380.629	
6,000.0	5,981.9	5,356.3	5,345.4	6.4	18.9	97.92	-1,261.5	-9,290.9	9,444.8	9,419.5	25.22	374.527	
6,100.0	6,081.4	5,455.8	5,444.6	6.4	19.2	97.95	-1,267.6	-9,297.4	9,453.4	9,427.7	25.65	368.601	
6,200.0	6,180.8	5,555.3	5,543.7	6.5	19.6	97.98	-1,273.7	-9,303.9	9,461.9	9,435.9	26.08	362.843	
6,300.0	6,280.3	5,654.8	5,642.8	6.6	19.9	98.01	-1,279.9	-9,310.4	9,470.5	9,444.0	26.51	357.247	
6,400.0	6,379.7	5,754.3	5,741.9	6.7	20.3	98.04	-1,286.0	-9,316.9	9,479.1	9,452.2	26.94	351.807	
6,500.0	6,479.2	5,853.8	5,841.0	6.8	20.6	98.07	-1,292.1	-9,323.4	9,487.7	9,460.4	27.38	346.516	
6,600.0	6,578.6	5,953.3	5,940.1	6.8	21.0	98.09	-1,298.3	-9,329.9	9,496.4	9,468.5	27.82	341.371	
6,700.0	6,678.1	6,052.8	6,039.2	6.9	21.4	98.12	-1,304.4	-9,336.4	9,505.0	9,476.7	28.26	336.364	
6,800.0	6,777.5	6,152.4	6,138.3	7.0	21.7	98.15	-1,310.5	-9,342.9	9,513.6	9,484.9	28.70	331.491	
6,900.0	6,877.0	6,251.9	6,237.4	7.1	22.1	98.18	-1,316.6	-9,349.4	9,522.2	9,493.0	29.14	326.747	
7,000.0	6,976.4	6,351.4	6,336.5	7.2	22.4	98.21	-1,322.8	-9,355.9	9,530.8	9,501.2	29.59	322.127	
7,100.0	7,075.9	6,450.9	6,435.6	7.3	22.8	98.24	-1,328.9	-9,362.4	9,539.4	9,509.4	30.03	317.627	
7,200.0	7,175.3	6,550.4	6,534.7	7.4	23.1	98.27	-1,335.0	-9,368.9	9,548.0	9,517.6	30.48	313.243	
7,300.0	7,274.8	6,649.9	6,633.9	7.5	23.5	98.30	-1,341.1	-9,375.4	9,556.7	9,525.7	30.93	308.970	
7,400.0	7,374.3	6,749.4	6,733.0	7.6	23.8	98.33	-1,347.3	-9,381.9	9,565.3	9,533.9	31.38	304.804	
7,500.0	7,473.7	6,848.9	6,832.1	7.7	24.2	98.36	-1,353.4	-9,388.4	9,573.9	9,542.1	31.83	300.742	
7,580.8	7,554.1	6,929.4	6,912.2	7.7	24.5	98.38	-1,358.3	-9,393.6	9,580.9	9,548.7	32.17	297.796	
7,600.0	7,573.1	6,948.5	6,931.2	7.7	24.6	80.04	-1,359.5	-9,394.9	9,582.2	9,549.9	32.24	297.194	
7,625.0	7,597.9	6,973.4	6,956.0	7.7	24.6	64.29	-1,361.1	-9,396.5	9,582.8	9,550.5	32.33	296.370	
7,650.0	7,622.5	6,998.2	6,980.8	7.7	24.7	54.87	-1,362.6	-9,398.1	9,582.3	9,549.9	32.43	295.495	
7,675.0	7,646.9	7,023.0	7,005.4	7.7	24.8	48.97	-1,364.1	-9,399.7	9,580.6	9,548.1	32.52	294.570	
7,700.0	7,670.9	7,047.6	7,029.9	7.7	24.9	45.09	-1,365.6	-9,401.4	9,577.7	9,545.1	32.62	293.597	
7,725.0	7,694.7	7,071.9	7,054.2	7.8	25.0	42.44	-1,367.1	-9,402.9	9,573.6	9,540.9	32.72	292.579	
7,750.0	7,718.0	7,095.9	7,078.1	7.8	25.1	40.60	-1,368.6	-9,404.5	9,568.4	9,535.6	32.82	291.518	
7,775.0	7,740.8	7,119.6	7,101.6	7.8	25.2	39.33	-1,370.1	-9,406.0	9,562.0	9,529.1	32.93	290.417	
7,800.0	7,763.0	7,142.7	7,124.7	7.8	25.2	38.49	-1,371.5	-9,407.6	9,554.5	9,521.5	33.03	289.278	
7,825.0	7,784.7	7,165.4	7,147.3	7.8	25.3	37.97	-1,372.9	-9,409.0	9,545.9	9,512.7	33.13	288.103	
7,850.0	7,805.7	7,187.5	7,169.3	7.9	25.4	37.74	-1,374.2	-9,410.5	9,536.2	9,502.9	33.24	286.897	
7,875.0	7,825.9	7,209.0	7,190.7	7.9	25.5	37.74	-1,375.6	-9,411.9	9,525.4	9,492.1	33.35	285.661	
7,900.0	7,845.4	7,229.8	7,211.4	7.9	25.6	37.96	-1,376.8	-9,413.2	9,513.6	9,480.2	33.45	284.400	
7,925.0	7,864.0	7,249.8	7,231.4	8.0	25.6	38.38	-1,378.1	-9,414.6	9,500.9	9,467.3	33.56	283.118	
7,950.0	7,881.7	7,269.1	7,250.5	8.0	25.7	39.00	-1,379.3	-9,415.8	9,487.2	9,453.5	33.66	281.818	
7,975.0	7,898.5	7,287.5	7,268.8	8.1	25.8	39.83	-1,380.4	-9,417.0	9,472.5	9,438.7	33.77	280.506	
8,000.0	7,914.4	7,304.9	7,286.2	8.1	25.8	40.86	-1,381.5	-9,418.2	9,457.0	9,423.1	33.87	279.185	
8,025.0	7,929.2	7,321.5	7,302.7	8.1	25.9	42.11	-1,382.5	-9,419.2	9,440.7	9,406.7	33.98	277.861	
8,050.0	7,942.9	7,337.0	7,318.2	8.2	25.9	43.60	-1,383.4	-9,420.2	9,423.5	9,389.5	34.08	276.539	
8,075.0	7,955.5	7,351.5	7,332.6	8.2	26.0	45.35	-1,384.3	-9,421.2	9,405.7	9,371.5	34.17	275.223	
8,100.0	7,967.0	7,364.9	7,345.9	8.3	26.0	47.38	-1,385.2	-9,422.1	9,387.1	9,352.8	34.27	273.920	
8,125.0	7,977.3	7,377.1	7,358.2	8.3	26.1	49.72	-1,385.9	-9,422.9	9,367.9	9,333.6	34.36	272.633	
8,150.0	7,986.4	7,388.3	7,369.3	8.4	26.1	52.41	-1,386.6	-9,423.6	9,348.1	9,313.7	34.45	271.368	
8,175.0	7,994.3	7,398.2	7,379.2	8.5	26.2	55.47	-1,387.2	-9,424.2	9,327.8	9,293.3	34.53	270.131	
8,200.0	8,001.0	7,407.0	7,387.9	8.5	26.2	58.96	-1,387.8	-9,424.8	9,307.1	9,272.4	34.61	268.924	
8,225.0	8,006.3	7,414.5	7,395.3	8.6	26.2	62.89	-1,388.2	-9,425.3	9,285.9	9,251.2	34.68	267.753	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #706H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,250.0	8,010.4	7,420.7	7,401.6	8.7	26.2	67.29	-1,388.6	-9,425.7	9,264.3	9,229.6	34.75	266.621	
8,275.0	8,013.3	7,425.7	7,406.5	8.8	26.3	72.15	-1,388.9	-9,426.0	9,242.5	9,207.7	34.81	265.532	
8,300.0	8,014.8	7,429.4	7,410.2	8.9	26.3	77.45	-1,389.1	-9,426.3	9,220.4	9,185.5	34.86	264.490	
8,320.6	8,015.1	7,431.5	7,412.3	9.0	26.3	82.11	-1,389.3	-9,426.4	9,202.1	9,167.2	34.90	263.663	
8,400.0	8,014.4	7,437.8	7,418.5	9.5	26.3	81.77	-1,389.6	-9,426.8	9,130.8	9,095.8	35.04	260.551	
8,500.0	8,013.6	7,445.6	7,426.3	10.1	26.3	81.26	-1,390.1	-9,427.3	9,039.9	9,004.7	35.24	256.513	
8,600.0	8,012.7	7,453.3	7,434.0	10.8	26.4	80.67	-1,390.6	-9,427.8	8,947.8	8,912.4	35.45	252.399	
8,700.0	8,011.9	7,460.9	7,441.6	11.5	26.4	79.95	-1,391.1	-9,428.3	8,854.5	8,818.9	35.67	248.255	
8,800.0	8,011.1	7,468.4	7,449.1	12.4	26.4	79.09	-1,391.5	-9,428.8	8,760.2	8,724.3	35.89	244.117	
8,900.0	8,010.2	7,475.8	7,456.4	13.2	26.4	78.01	-1,392.0	-9,429.3	8,664.9	8,628.8	36.10	240.016	
9,000.0	8,009.4	7,483.1	7,463.7	14.1	26.5	76.66	-1,392.4	-9,429.8	8,568.7	8,532.4	36.31	235.978	
9,100.0	8,008.5	7,490.2	7,470.8	15.0	26.5	74.90	-1,392.9	-9,430.2	8,471.7	8,435.2	36.51	232.024	
9,200.0	8,007.7	7,497.2	7,477.7	15.9	26.5	72.56	-1,393.3	-9,430.7	8,374.0	8,337.3	36.70	228.172	
9,300.0	8,006.8	7,504.0	7,484.5	16.8	26.5	69.28	-1,393.7	-9,431.1	8,275.7	8,238.8	36.87	224.438	
9,400.0	8,006.0	7,510.6	7,491.1	17.7	26.6	64.43	-1,394.1	-9,431.6	8,176.9	8,139.8	37.03	220.832	
9,500.0	8,005.1	7,517.1	7,497.5	18.7	26.6	56.75	-1,394.5	-9,432.0	8,077.6	8,040.5	37.16	217.364	
9,600.0	8,004.3	7,523.4	7,503.8	19.6	26.6	43.54	-1,394.9	-9,432.4	7,978.1	7,940.8	37.27	214.040	
9,700.0	8,003.5	7,529.5	7,509.9	20.6	26.6	20.11	-1,395.3	-9,432.8	7,878.3	7,841.0	37.36	210.863	
9,800.0	8,002.7	7,535.4	7,515.8	21.6	26.7	-12.69	-1,395.7	-9,433.2	7,778.5	7,741.1	37.43	207.836	
9,815.2	8,002.5	7,536.3	7,516.6	21.7	26.7	-17.52	-1,395.7	-9,433.3	7,763.3	7,725.9	37.43	207.389	
9,900.0	8,001.8	7,541.2	7,521.5	22.5	26.7	-17.73	-1,396.0	-9,433.6	7,678.7	7,641.2	37.47	204.904	
10,000.0	8,001.0	7,546.9	7,527.3	23.5	26.7	-17.99	-1,396.4	-9,433.9	7,578.9	7,541.4	37.53	201.968	
10,100.0	8,000.2	7,552.7	7,533.0	24.5	26.7	-18.25	-1,396.7	-9,434.3	7,479.1	7,441.5	37.58	199.029	
10,200.0	7,999.4	7,558.5	7,538.8	25.5	26.7	-18.51	-1,397.1	-9,434.7	7,379.3	7,341.6	37.63	196.087	
10,300.0	7,998.6	7,564.2	7,544.5	26.5	26.8	-18.78	-1,397.4	-9,435.1	7,279.5	7,241.8	37.69	193.142	
10,400.0	7,997.8	7,570.0	7,550.2	27.6	26.8	-19.06	-1,397.8	-9,435.5	7,179.7	7,141.9	37.75	190.195	
10,500.0	7,996.9	7,575.8	7,556.0	28.6	26.8	-19.35	-1,398.1	-9,435.8	7,079.9	7,042.0	37.81	187.247	
10,600.0	7,996.1	7,581.6	7,561.7	29.6	26.8	-19.64	-1,398.5	-9,436.2	6,980.1	6,942.2	37.87	184.299	
10,700.0	7,995.3	7,587.3	7,567.5	30.7	26.8	-19.94	-1,398.9	-9,436.6	6,880.2	6,842.3	37.94	181.351	
10,800.0	7,994.5	7,593.1	7,573.2	31.7	26.9	-20.25	-1,399.2	-9,437.0	6,780.4	6,742.4	38.01	178.404	
10,900.0	7,993.7	7,598.9	7,579.0	32.8	26.9	-20.56	-1,399.6	-9,437.3	6,680.6	6,642.6	38.08	175.458	
11,000.0	7,992.8	7,604.6	7,584.7	33.8	26.9	-20.89	-1,399.9	-9,437.7	6,580.8	6,542.7	38.15	172.514	
11,100.0	7,992.0	7,610.4	7,590.5	34.9	26.9	-21.22	-1,400.3	-9,438.1	6,481.0	6,442.8	38.22	169.573	
11,200.0	7,991.2	7,616.2	7,596.2	35.9	26.9	-21.56	-1,400.6	-9,438.5	6,381.2	6,343.0	38.29	166.636	
11,300.0	7,990.4	7,621.9	7,602.0	37.0	27.0	-21.91	-1,401.0	-9,438.8	6,281.5	6,243.1	38.37	163.702	
11,400.0	7,989.6	7,627.7	7,607.7	38.1	27.0	-22.26	-1,401.3	-9,439.2	6,181.7	6,143.2	38.45	160.773	
11,500.0	7,988.8	7,633.5	7,613.5	39.1	27.0	-22.63	-1,401.7	-9,439.6	6,081.9	6,043.3	38.53	157.849	
11,600.0	7,987.9	7,639.3	7,619.2	40.2	27.0	-23.01	-1,402.1	-9,440.0	5,982.1	5,943.5	38.61	154.930	
11,700.0	7,987.1	7,645.0	7,625.0	41.3	27.1	-23.40	-1,402.4	-9,440.4	5,882.3	5,843.6	38.69	152.017	
11,800.0	7,986.3	7,650.8	7,630.7	42.4	27.1	-23.79	-1,402.8	-9,440.7	5,782.5	5,743.7	38.78	149.111	
11,900.0	7,985.5	7,656.6	7,636.5	43.4	27.1	-24.20	-1,403.1	-9,441.1	5,682.7	5,643.8	38.87	146.212	
12,000.0	7,984.7	7,662.3	7,642.2	44.5	27.1	-24.62	-1,403.5	-9,441.5	5,582.9	5,544.0	38.95	143.320	
12,100.0	7,983.9	7,668.1	7,648.0	45.6	27.1	-25.05	-1,403.8	-9,441.9	5,483.1	5,444.1	39.04	140.436	
12,200.0	7,983.0	7,673.9	7,653.7	46.7	27.2	-25.50	-1,404.2	-9,442.2	5,383.3	5,344.2	39.13	137.561	
12,300.0	7,982.2	7,679.7	7,659.5	47.8	27.2	-25.96	-1,404.5	-9,442.6	5,283.6	5,244.3	39.23	134.694	
12,400.0	7,981.4	7,685.4	7,665.2	48.9	27.2	-26.43	-1,404.9	-9,443.0	5,183.8	5,144.5	39.32	131.836	
12,500.0	7,980.6	7,691.2	7,670.9	50.0	27.2	-26.91	-1,405.3	-9,443.4	5,084.0	5,044.6	39.41	128.988	
12,600.0	7,979.8	7,697.0	7,676.7	51.0	27.2	-27.41	-1,405.6	-9,443.7	4,984.2	4,944.7	39.51	126.150	
12,700.0	7,979.0	7,702.7	7,682.4	52.1	27.3	-27.92	-1,406.0	-9,444.1	4,884.5	4,844.9	39.61	123.321	
12,800.0	7,978.1	7,708.5	7,688.2	53.2	27.3	-28.45	-1,406.3	-9,444.5	4,784.7	4,745.0	39.71	120.503	
12,900.0	7,977.3	7,714.3	7,693.9	54.3	27.3	-29.00	-1,406.7	-9,444.9	4,684.9	4,645.1	39.81	117.696	
13,000.0	7,976.5	7,720.1	7,699.7	55.4	27.3	-29.56	-1,407.0	-9,445.2	4,585.2	4,545.3	39.91	114.899	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #706H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.0	7,975.7	7,725.8	7,705.4	56.5	27.3	-30.14	-1,407.4	-9,445.6	4,485.4	4,445.4	40.01	112.114	
13,171.4	7,975.1	7,729.9	7,709.5	57.3	27.4	-30.57	-1,407.6	-9,445.9	4,414.2	4,374.1	40.08	110.133	
13,200.0	7,974.9	7,731.6	7,711.2	57.6	27.4	-37.28	-1,407.7	-9,446.0	4,385.6	4,345.5	40.11	109.344	
13,245.7	7,974.5	7,734.2	7,713.8	58.1	27.4	-46.02	-1,407.9	-9,446.2	4,340.1	4,299.9	40.15	108.098	
13,300.0	7,974.0	7,737.2	7,716.8	58.7	27.4	-46.37	-1,408.1	-9,446.4	4,286.0	4,245.8	40.19	106.633	
13,400.0	7,973.2	7,742.8	7,722.4	59.8	27.4	-47.04	-1,408.4	-9,446.7	4,186.4	4,146.1	40.28	103.936	
13,500.0	7,972.4	7,748.4	7,728.0	60.9	27.4	-47.72	-1,408.8	-9,447.1	4,086.8	4,046.4	40.36	101.247	
13,600.0	7,971.6	7,754.0	7,733.5	62.0	27.4	-48.41	-1,409.1	-9,447.5	3,987.2	3,946.7	40.45	98.565	
13,700.0	7,970.8	7,759.6	7,739.1	63.1	27.5	-49.11	-1,409.5	-9,447.8	3,887.6	3,847.1	40.54	95.891	
13,800.0	7,969.9	7,765.3	7,744.7	64.2	27.5	-49.83	-1,409.8	-9,448.2	3,788.0	3,747.4	40.63	93.223	
13,900.0	7,969.1	7,770.9	7,750.3	65.3	27.5	-50.56	-1,410.2	-9,448.6	3,688.5	3,647.8	40.73	90.562	
14,000.0	7,968.3	7,776.5	7,755.9	66.4	27.5	-51.31	-1,410.5	-9,448.9	3,589.0	3,548.1	40.83	87.908	
14,100.0	7,967.5	7,782.1	7,761.5	67.5	27.5	-52.07	-1,410.8	-9,449.3	3,489.4	3,448.5	40.93	85.261	
14,200.0	7,966.7	7,787.7	7,767.0	68.6	27.6	-52.84	-1,411.2	-9,449.7	3,389.9	3,348.9	41.03	82.620	
14,300.0	7,965.8	7,793.3	7,772.6	69.7	27.6	-53.63	-1,411.5	-9,450.0	3,290.5	3,249.3	41.14	79.985	
14,400.0	7,965.0	7,798.9	7,778.2	70.8	27.6	-54.43	-1,411.9	-9,450.4	3,191.0	3,149.8	41.25	77.355	
14,500.0	7,964.2	7,804.5	7,783.8	71.9	27.6	-55.25	-1,412.2	-9,450.8	3,091.6	3,050.2	41.37	74.730	
14,600.0	7,963.4	7,810.1	7,789.4	73.0	27.6	-56.07	-1,412.6	-9,451.1	2,992.2	2,950.7	41.49	72.110	
14,700.0	7,962.6	7,815.7	7,795.0	74.1	27.7	-56.92	-1,412.9	-9,451.5	2,892.8	2,851.2	41.63	69.493	
14,800.0	7,961.7	7,821.3	7,800.6	75.2	27.7	-57.78	-1,413.3	-9,451.9	2,793.5	2,751.7	41.77	66.880	
14,900.0	7,960.9	7,826.9	7,806.1	76.3	27.7	-58.65	-1,413.6	-9,452.2	2,694.2	2,652.2	41.92	64.268	
15,000.0	7,960.1	7,832.5	7,811.7	77.4	27.7	-59.54	-1,414.0	-9,452.6	2,594.9	2,552.8	42.09	61.658	
15,100.0	7,959.3	7,838.2	7,817.3	78.5	27.7	-60.44	-1,414.3	-9,453.0	2,495.7	2,453.4	42.27	59.048	
15,200.0	7,958.5	7,843.8	7,822.9	79.6	27.8	-61.35	-1,414.6	-9,453.3	2,396.5	2,354.1	42.46	56.437	
15,300.0	7,957.6	7,849.4	7,828.5	80.7	27.8	-62.28	-1,415.0	-9,453.7	2,297.4	2,254.8	42.68	53.823	
15,400.0	7,956.8	7,855.0	7,834.1	81.8	27.8	-63.23	-1,415.3	-9,454.1	2,198.4	2,155.5	42.93	51.206	
15,500.0	7,956.0	7,860.6	7,839.7	82.9	27.8	-64.18	-1,415.7	-9,454.4	2,099.4	2,056.2	43.21	48.584	
15,600.0	7,955.2	7,866.2	7,845.2	84.0	27.8	-65.15	-1,416.0	-9,454.8	2,000.6	1,957.0	43.53	45.955	
15,700.0	7,954.4	7,871.8	7,850.8	85.1	27.9	-66.13	-1,416.4	-9,455.2	1,901.8	1,857.9	43.90	43.319	
15,800.0	7,953.5	7,877.4	7,856.4	86.2	27.9	-67.13	-1,416.7	-9,455.5	1,803.2	1,758.8	44.33	40.674	
15,900.0	7,952.7	7,883.0	7,862.0	87.3	27.9	-68.14	-1,417.1	-9,455.9	1,704.6	1,659.8	44.84	38.019	
16,000.0	7,951.9	7,888.6	7,867.6	88.4	27.9	-69.15	-1,417.4	-9,456.3	1,606.3	1,560.9	45.43	35.354	
16,100.0	7,951.1	7,894.2	7,873.2	89.5	28.0	-70.19	-1,417.8	-9,456.6	1,508.2	1,462.0	46.15	32.680	
16,200.0	7,950.3	7,899.8	7,878.7	90.6	28.0	-71.23	-1,418.1	-9,457.0	1,410.2	1,363.2	47.01	30.000	
16,300.0	7,949.4	7,905.4	7,884.3	91.8	28.0	-72.28	-1,418.4	-9,457.4	1,312.6	1,264.6	48.05	27.316	
16,400.0	7,948.6	7,911.1	7,889.9	92.9	28.0	-73.34	-1,418.8	-9,457.7	1,215.4	1,166.0	49.33	24.636	
16,500.0	7,947.8	7,916.7	7,895.5	94.0	28.0	-74.41	-1,419.1	-9,458.1	1,118.6	1,067.7	50.91	21.970	
16,600.0	7,947.0	7,922.3	7,901.1	95.1	28.1	-75.49	-1,419.5	-9,458.4	1,022.3	969.5	52.88	19.332	
16,700.0	7,946.2	7,927.9	7,906.7	96.2	28.1	-76.58	-1,419.8	-9,458.8	926.9	871.5	55.36	16.742	
16,800.0	7,945.3	7,933.5	7,912.3	97.3	28.1	-77.67	-1,420.2	-9,459.2	832.5	774.0	58.52	14.225	
16,900.0	7,944.5	7,939.1	7,917.8	98.4	28.1	-78.77	-1,420.5	-9,459.5	739.5	676.9	62.59	11.814	
17,000.0	7,943.7	7,944.7	7,923.4	99.5	28.1	-79.88	-1,420.9	-9,459.9	648.5	580.6	67.91	9.550	
17,100.0	7,942.9	7,950.3	7,929.0	100.6	28.2	-80.99	-1,421.2	-9,460.3	560.6	485.7	74.94	7.481	
17,200.0	7,942.1	7,955.9	7,934.6	101.7	28.2	-82.11	-1,421.5	-9,460.6	477.4	393.1	84.29	5.664	
17,300.0	7,941.2	7,961.5	7,940.2	102.8	28.2	-83.22	-1,421.9	-9,461.0	401.8	305.2	96.60	4.160	
17,400.0	7,940.4	7,967.1	7,945.8	103.9	28.2	-84.35	-1,422.2	-9,461.4	339.1	227.4	111.70	3.036	
17,500.0	7,939.6	7,972.7	7,951.4	105.1	28.2	-85.47	-1,422.6	-9,461.7	297.4	170.7	126.61	2.349	
17,583.2	7,938.9	7,977.4	7,956.0	106.0	28.2	-86.40	-1,422.9	-9,462.0	285.5	151.7	133.77	2.134 CC, ES	
17,600.0	7,938.8	7,978.3	7,956.9	106.2	28.3	-86.59	-1,422.9	-9,462.1	286.0	151.8	134.24	2.130 SF	
17,700.0	7,938.0	7,984.0	7,962.5	107.3	28.3	-87.71	-1,423.3	-9,462.5	308.4	178.1	130.34	2.366	
17,800.0	7,937.1	7,989.6	7,968.1	108.4	28.3	-88.84	-1,423.6	-9,462.8	358.3	238.6	119.68	2.994	
17,900.0	7,936.3	7,995.2	7,973.7	109.5	28.3	-89.96	-1,424.0	-9,463.2	426.1	317.7	108.34	3.933	

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 MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 30 STATE COM #706H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,996.2	7,935.5	8,000.6	7,979.1	110.6	28.3	-91.03	-1,424.3	-9,463.6	501.6	402.5	99.08	5.062	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3040.0usft (TBD)

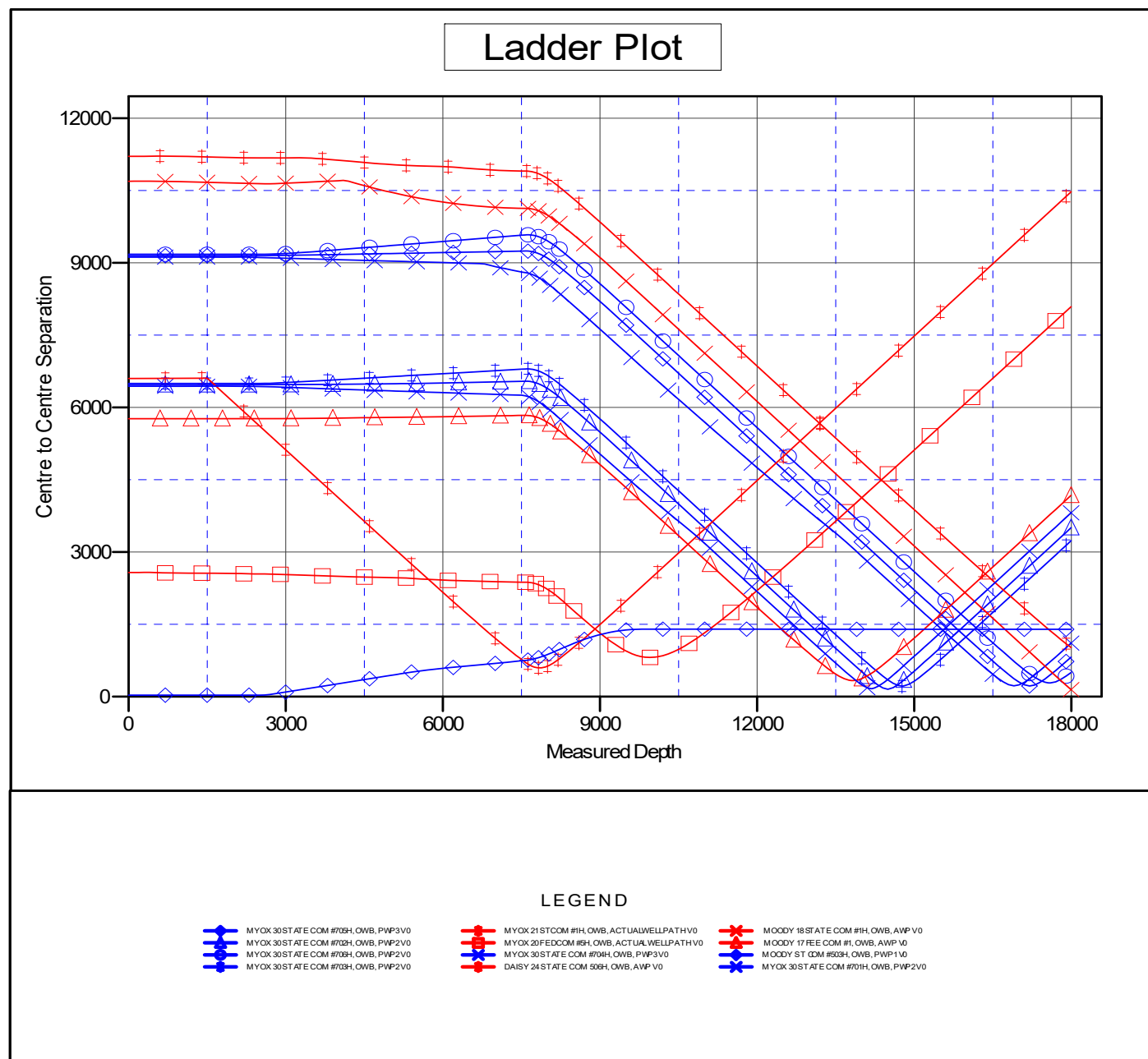
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #504H

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

Grid Convergence at Surface is: 0.12°



ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #504H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3040.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3040.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3040.0usft (TBD)

Offset Depths are relative to Offset Datum

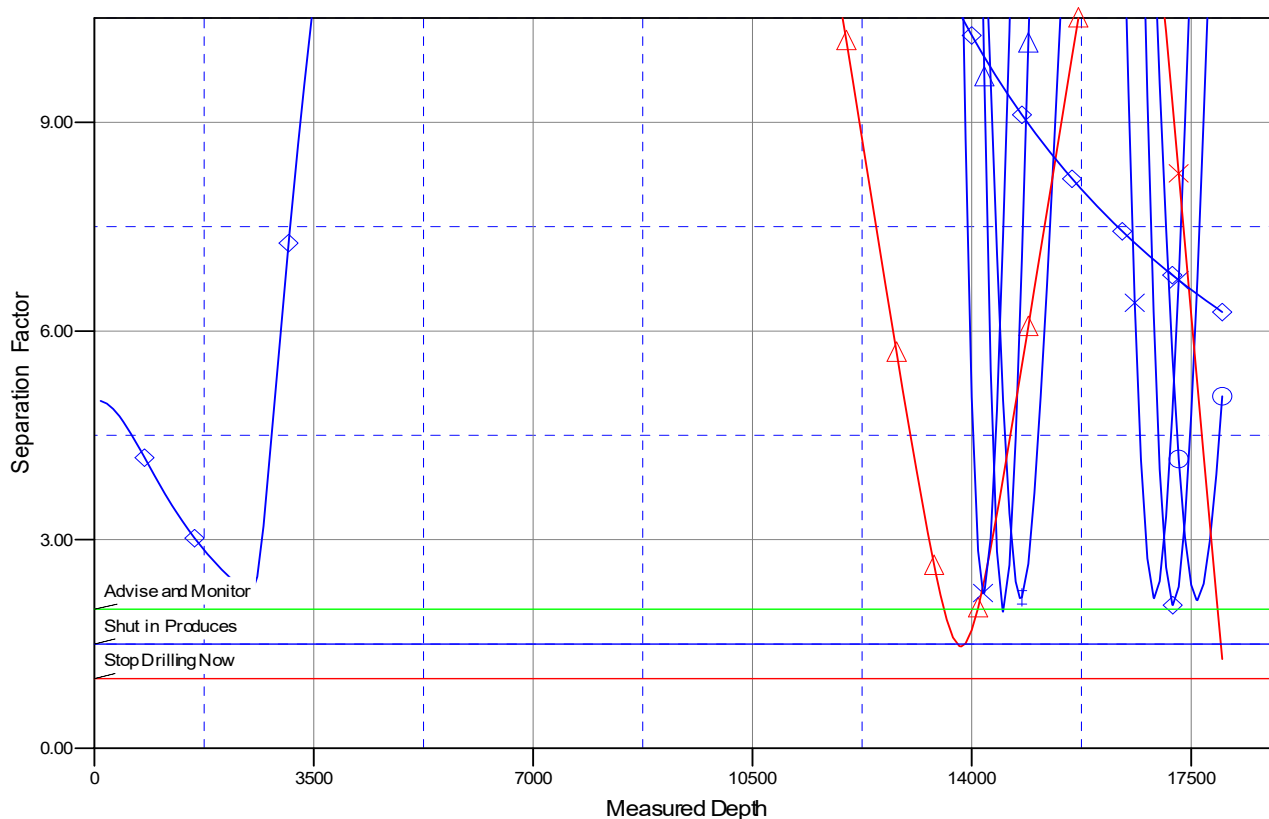
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #504H

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

MYOK 30 STATE COM #709H, OWB, PWP3V0
 MYOK 30 STATE COM #702H, OWB, PWP2V0
 MYOK 30 STATE COM #709H, OWB, PWP2V0
 MYOK 30 STATE COM #703H, OWB, PWP2V0

MYOK 21 ST COM #1H, OWB, ACTUAL WELL PATH V0
 MYOK 20 FED COM #9H, OWB, ACTUAL WELL PATH V0
 MYOK 30 STATE COM #704H, OWB, PWP3V0
 DAISY 24 STATE COM 506H, OWB, AWP V0

MOODY 18 STATE COM #1H, OWB, AWP V0
 MOODY 17 FEE COM #1, OWB, AWP V0
 MOODY ST COM #503H, OWB, PWP1V0
 MYOK 30 STATE COM #701H, OWB, PWP2V0

Intent ☐ As Drilled ☐

API # 30-015-		
Operator Name: COG OPERATING LLC	Property Name: MOODY STATE COM	Well Number 504H

Kick Off Point (KOP)

UL I	Section 17	Township 25S	Range 28E	Lot	Feet 1490'	From N/S S	Feet 270'	From E/W E	County EDDY
Latitude 32.12654436					Longitude -104.10127788				NAD 83

First Take Point (FTP)

UL I	Section 17	Township 25S	Range 28E	Lot	Feet 330'	From N/S S	Feet 330'	From E/W E	County Eddy
Latitude 32.12335434					Longitude -104.10144276				NAD 83

Last Take Point (LTP)

UL D	Section 18	Township 25S	Range 28E	Lot 4	Feet 330'	From N/S S	Feet 500'	From E/W W	County EDDY
Latitude 32.12349202					Longitude -104.13329405				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

☐ Y

Is this well an infill well?

☐ N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-		
Operator Name: COG OPERATING LLC	Property Name: MOODY STATE COM	Well Number 504H