

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 295224

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 30-015-48179
4. Property Code 330661	5. Property Name MOODY STATE COM	6. Well No. 502H

7. Surface Location

UL - Lot A	Section 17	Township 25S	Range 28E	Lot Idn A	Feet From 1115	N/S Line N	Feet From 270	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot E	Section 18	Township 25S	Range 28E	Lot Idn 2	Feet From 2150	N/S Line N	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 2999
16. Multiple N	17. Proposed Depth 17866	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	17866	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 17,866' 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	Expiration Date:	4/22/2023
Phone:	432-685-4385	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 502H	
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC						9 Elevation 2999'	
10 Surface Location									
UL or lot no. A	Section 17	Township 25-S	Range 28-E	Lot Idn	Feet from the 1115'	North/South line NORTH	Feet from the 270'	East/West line EAST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. L2	Section 18	Township 25-S	Range 28-E	Lot Idn	Feet from the 2150'	North/South line NORTH	Feet from the 450'	East/West line WEST	County EDDY
12 Dedicated Acres 320.31		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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.

16 CORNER DATA NEW MEXICO EAST - NAD 83 A. FOUND IRON PIPE W/ BRASS CAP N:413757.84' E:602589.83' B. FOUND IRON PIPE W/ BRASS CAP N:413765.86' E:605256.41' C. FOUND BENT IRON PIPE W/ NO CAP N:413773.51' E:607917.56' D. FOUND BENT IRON PIPE W/ BRASS CAP N:413779.16' E:610586.20' E. FOUND IRON PIPE W/ BRASS CAP N:413783.53' E:613255.14' F. FOUND IRON PIPE W/ BRASS CAP N:411093.92' E:613279.22' G. CALCULATED CORNER N:408407.14' E:613305.80' H. FOUND IRON PIPE W/ BRASS CAP N:408380.27' E:610642.12' I. FOUND IRON PIPE W/ BRASS CAP N:408354.00' E:607978.38' J. FOUND BENT IRON PIPE N:408397.42' E:605300.46' K. CALCULATED CORNER N:408442.26' E:602813.37' L. FOUND IRON PIPE W/ BRASS CAP N:411101.80' E:602599.58' M. FOUND IRON PIPE W/ BRASS CAP N:411065.60' E:607947.35'		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@conocophillips.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: 3/17/2021 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 12177		SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=812995.11 Y=412668.10 LAT.= 32.13429175° N LONG.= 104.10183307° W 1115' FNL, 270' FEL SECTION 17 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=812844.38 Y=411833.02 LAT.= 32.13144668° N LONG.= 104.10200416° W 2150' FNL, 330' FEL SECTION 17 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=803097.72 Y=411808.36 LAT.= 32.13143578° N LONG.= 104.13381418° W 2150' FNL, 500' FVL SECTION 18 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=803047.72 Y=411809.21 LAT.= 32.13143582° N LONG.= 104.13397571° W 2150' FNL, 450' FVL SECTION 18	

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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 #502H	30-015-48179	A-17-25S-28E	1115N 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 295224

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-48179
		Well: MOODY STATE COM #502H

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 295224

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-48179
	Well: MOODY STATE COM #502H

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 #502H

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#	17,866'	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 17,866' 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.

Intent ☐ As Drilled ☐

API # 30-015-		
Operator Name: COG OPERATING LLC	Property Name: MOODY STATE COM	Well Number 502H

Kick Off Point (KOP)

UL A	Section 17	Township 25S	Range 28E	Lot	Feet 1115'	From N/S N	Feet 270'	From E/W E	County EDDY
Latitude 32.13429175					Longitude -104.10183307				NAD 83

First Take Point (FTP)

UL A	Section 17	Township 25S	Range 28E	Lot	Feet 2150'	From N/S N	Feet 330'	From E/W E	County Eddy
Latitude 32.13144668					Longitude -104.10200416				NAD 83

Last Take Point (LTP)

UL D	Section 18	Township 25S	Range 28E	Lot 2	Feet 2150'	From N/S N	Feet 500'	From E/W W	County EDDY
Latitude 32.13143578					Longitude -104.13381418				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 502H

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #502H**

OWB

Plan: PWP1

Standard Survey Report

06 April, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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 #502H				
Well Position	+N/-S	0.0 usft	Northing:	412,610.21 usft	Latitude: 32° 8' 3.010 N
	+E/-W	0.0 usft	Easting:	571,811.17 usft	Longitude: 104° 6' 4.832 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 2,999.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/5/2021	6.81	59.74	47,408.76853191

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	263.92	

Survey Tool Program	Date	4/6/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,573.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,573.0	17,866.6	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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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	175.00	2,600.0	-1.7	0.2	0.0	2.00	2.00	0.00
2,700.0	4.00	175.00	2,699.8	-7.0	0.6	0.1	2.00	2.00	0.00
2,750.0	5.00	175.00	2,749.7	-10.9	1.0	0.2	2.00	2.00	0.00
Start 4823.4 hold at 2750.0 MD									
2,800.0	5.00	175.00	2,799.5	-15.2	1.3	0.3	0.00	0.00	0.00
2,900.0	5.00	175.00	2,899.1	-23.9	2.1	0.5	0.00	0.00	0.00
3,000.0	5.00	175.00	2,998.7	-32.6	2.8	0.6	0.00	0.00	0.00
3,100.0	5.00	175.00	3,098.4	-41.2	3.6	0.8	0.00	0.00	0.00
3,200.0	5.00	175.00	3,198.0	-49.9	4.4	0.9	0.00	0.00	0.00
3,300.0	5.00	175.00	3,297.6	-58.6	5.1	1.1	0.00	0.00	0.00
3,400.0	5.00	175.00	3,397.2	-67.3	5.9	1.3	0.00	0.00	0.00
3,500.0	5.00	175.00	3,496.8	-76.0	6.6	1.4	0.00	0.00	0.00
3,600.0	5.00	175.00	3,596.4	-84.7	7.4	1.6	0.00	0.00	0.00
3,700.0	5.00	175.00	3,696.1	-93.3	8.2	1.8	0.00	0.00	0.00
3,800.0	5.00	175.00	3,795.7	-102.0	8.9	1.9	0.00	0.00	0.00
3,900.0	5.00	175.00	3,895.3	-110.7	9.7	2.1	0.00	0.00	0.00
4,000.0	5.00	175.00	3,994.9	-119.4	10.4	2.2	0.00	0.00	0.00
4,100.0	5.00	175.00	4,094.5	-128.1	11.2	2.4	0.00	0.00	0.00
4,200.0	5.00	175.00	4,194.2	-136.8	12.0	2.6	0.00	0.00	0.00
4,300.0	5.00	175.00	4,293.8	-145.4	12.7	2.7	0.00	0.00	0.00
4,400.0	5.00	175.00	4,393.4	-154.1	13.5	2.9	0.00	0.00	0.00
4,500.0	5.00	175.00	4,493.0	-162.8	14.2	3.1	0.00	0.00	0.00
4,600.0	5.00	175.00	4,592.6	-171.5	15.0	3.2	0.00	0.00	0.00
4,700.0	5.00	175.00	4,692.3	-180.2	15.8	3.4	0.00	0.00	0.00
4,800.0	5.00	175.00	4,791.9	-188.8	16.5	3.6	0.00	0.00	0.00
4,900.0	5.00	175.00	4,891.5	-197.5	17.3	3.7	0.00	0.00	0.00
5,000.0	5.00	175.00	4,991.1	-206.2	18.0	3.9	0.00	0.00	0.00
5,100.0	5.00	175.00	5,090.7	-214.9	18.8	4.0	0.00	0.00	0.00
5,200.0	5.00	175.00	5,190.4	-223.6	19.6	4.2	0.00	0.00	0.00
5,300.0	5.00	175.00	5,290.0	-232.3	20.3	4.4	0.00	0.00	0.00
5,400.0	5.00	175.00	5,389.6	-240.9	21.1	4.5	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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)	
5,500.0	5.00	175.00	5,489.2	-249.6	21.8	4.7	0.00	0.00	0.00	
5,600.0	5.00	175.00	5,588.8	-258.3	22.6	4.9	0.00	0.00	0.00	
5,700.0	5.00	175.00	5,688.5	-267.0	23.4	5.0	0.00	0.00	0.00	
5,800.0	5.00	175.00	5,788.1	-275.7	24.1	5.2	0.00	0.00	0.00	
5,900.0	5.00	175.00	5,887.7	-284.4	24.9	5.4	0.00	0.00	0.00	
6,000.0	5.00	175.00	5,987.3	-293.0	25.6	5.5	0.00	0.00	0.00	
6,100.0	5.00	175.00	6,086.9	-301.7	26.4	5.7	0.00	0.00	0.00	
6,200.0	5.00	175.00	6,186.6	-310.4	27.2	5.8	0.00	0.00	0.00	
6,300.0	5.00	175.00	6,286.2	-319.1	27.9	6.0	0.00	0.00	0.00	
6,400.0	5.00	175.00	6,385.8	-327.8	28.7	6.2	0.00	0.00	0.00	
6,500.0	5.00	175.00	6,485.4	-336.5	29.4	6.3	0.00	0.00	0.00	
6,600.0	5.00	175.00	6,585.0	-345.1	30.2	6.5	0.00	0.00	0.00	
6,700.0	5.00	175.00	6,684.7	-353.8	31.0	6.7	0.00	0.00	0.00	
6,800.0	5.00	175.00	6,784.3	-362.5	31.7	6.8	0.00	0.00	0.00	
6,900.0	5.00	175.00	6,883.9	-371.2	32.5	7.0	0.00	0.00	0.00	
7,000.0	5.00	175.00	6,983.5	-379.9	33.2	7.2	0.00	0.00	0.00	
7,100.0	5.00	175.00	7,083.1	-388.5	34.0	7.3	0.00	0.00	0.00	
7,200.0	5.00	175.00	7,182.7	-397.2	34.8	7.5	0.00	0.00	0.00	
7,300.0	5.00	175.00	7,282.4	-405.9	35.5	7.6	0.00	0.00	0.00	
7,400.0	5.00	175.00	7,382.0	-414.6	36.3	7.8	0.00	0.00	0.00	
7,500.0	5.00	175.00	7,481.6	-423.3	37.0	8.0	0.00	0.00	0.00	
7,573.4	5.00	175.00	7,554.7	-429.6	37.6	8.1	0.00	0.00	0.00	
Start DLS 12.00 TFO 66.42										
7,600.0	6.93	200.07	7,581.2	-432.3	37.1	8.8	12.00	7.23	94.13	
7,700.0	17.78	226.87	7,678.8	-448.5	23.9	23.7	12.00	10.86	26.81	
7,800.0	29.53	233.21	7,770.2	-473.8	-7.1	57.2	12.00	11.74	6.34	
7,900.0	41.41	236.13	7,851.5	-507.1	-54.5	107.8	12.00	11.88	2.92	
8,000.0	53.34	237.92	7,919.2	-546.9	-116.1	173.4	12.00	11.93	1.79	
8,100.0	65.28	239.23	7,970.1	-591.6	-189.4	251.0	12.00	11.95	1.31	
8,200.0	77.24	240.30	8,002.2	-639.2	-271.1	337.2	12.00	11.96	1.07	
8,300.0	89.20	241.28	8,013.9	-687.6	-357.6	428.4	12.00	11.96	0.98	
8,310.6	90.47	241.38	8,014.0	-692.7	-366.9	438.2	12.00	11.96	0.96	
Start DLS 2.00 TFO 89.88										
8,400.0	90.47	243.17	8,013.2	-734.3	-446.1	521.3	2.00	0.00	2.00	
8,500.0	90.48	245.17	8,012.4	-777.8	-536.1	615.4	2.00	0.00	2.00	
8,600.0	90.48	247.17	8,011.6	-818.2	-627.5	710.6	2.00	0.00	2.00	
8,700.0	90.48	249.17	8,010.7	-855.4	-720.3	806.8	2.00	0.00	2.00	
8,800.0	90.48	251.17	8,009.9	-889.3	-814.4	904.0	2.00	0.00	2.00	
8,900.0	90.48	253.17	8,009.1	-920.0	-909.6	1,001.9	2.00	0.00	2.00	
9,000.0	90.48	255.17	8,008.2	-947.2	-1,005.8	1,100.4	2.00	0.00	2.00	
9,100.0	90.48	257.17	8,007.4	-971.1	-1,102.9	1,199.5	2.00	0.00	2.00	
9,200.0	90.48	259.17	8,006.5	-991.6	-1,200.8	1,299.0	2.00	0.00	2.00	
9,300.0	90.48	261.17	8,005.7	-1,008.7	-1,299.3	1,398.7	2.00	0.00	2.00	
9,400.0	90.48	263.17	8,004.8	-1,022.3	-1,398.3	1,498.7	2.00	0.00	2.00	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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)
9,500.0	90.48	265.17	8,004.0	-1,032.5	-1,497.8	1,598.7	2.00	0.00	2.00
9,600.0	90.48	267.17	8,003.2	-1,039.2	-1,597.6	1,698.6	2.00	0.00	2.00
9,700.0	90.47	269.17	8,002.3	-1,042.4	-1,697.5	1,798.3	2.00	0.00	2.00
9,734.5	90.47	269.86	8,002.1	-1,042.7	-1,732.1	1,832.7	2.00	0.00	2.00
Start 1750.0 hold at 9734.6 MD									
9,800.0	90.47	269.86	8,001.5	-1,042.8	-1,797.5	1,897.8	0.00	0.00	0.00
9,900.0	90.47	269.86	8,000.7	-1,043.1	-1,897.5	1,997.2	0.00	0.00	0.00
10,000.0	90.47	269.86	7,999.9	-1,043.3	-1,997.5	2,096.7	0.00	0.00	0.00
10,100.0	90.47	269.86	7,999.1	-1,043.6	-2,097.5	2,196.2	0.00	0.00	0.00
10,200.0	90.47	269.86	7,998.2	-1,043.8	-2,197.5	2,295.6	0.00	0.00	0.00
10,300.0	90.47	269.86	7,997.4	-1,044.0	-2,297.5	2,395.1	0.00	0.00	0.00
10,400.0	90.47	269.86	7,996.6	-1,044.3	-2,397.5	2,494.5	0.00	0.00	0.00
10,500.0	90.47	269.86	7,995.8	-1,044.5	-2,497.5	2,594.0	0.00	0.00	0.00
10,600.0	90.47	269.86	7,995.0	-1,044.8	-2,597.5	2,693.5	0.00	0.00	0.00
10,700.0	90.47	269.86	7,994.1	-1,045.0	-2,697.5	2,792.9	0.00	0.00	0.00
10,800.0	90.47	269.86	7,993.3	-1,045.3	-2,797.5	2,892.4	0.00	0.00	0.00
10,900.0	90.47	269.86	7,992.5	-1,045.5	-2,897.5	2,991.9	0.00	0.00	0.00
11,000.0	90.47	269.86	7,991.7	-1,045.8	-2,997.5	3,091.3	0.00	0.00	0.00
11,100.0	90.47	269.86	7,990.8	-1,046.0	-3,097.5	3,190.8	0.00	0.00	0.00
11,200.0	90.47	269.86	7,990.0	-1,046.2	-3,197.5	3,290.2	0.00	0.00	0.00
11,300.0	90.47	269.86	7,989.2	-1,046.5	-3,297.5	3,389.7	0.00	0.00	0.00
11,400.0	90.47	269.86	7,988.4	-1,046.7	-3,397.5	3,489.2	0.00	0.00	0.00
11,484.5	90.47	269.86	7,987.7	-1,046.9	-3,482.0	3,573.2	0.00	0.00	0.00
Start DLS 2.00 TFO -90.03									
11,500.0	90.47	269.55	7,987.6	-1,047.0	-3,497.4	3,588.6	2.00	0.00	-2.00
11,600.0	90.47	267.55	7,986.7	-1,049.5	-3,597.4	3,688.3	2.00	0.00	-2.00
11,700.0	90.47	265.55	7,985.9	-1,055.6	-3,697.2	3,788.2	2.00	0.00	-2.00
11,742.8	90.47	264.69	7,985.6	-1,059.2	-3,739.9	3,831.0	2.00	0.00	-2.00
Start 391.9 hold at 11742.8 MD									
11,800.0	90.47	264.69	7,985.1	-1,064.5	-3,796.8	3,888.2	0.00	0.00	0.00
11,900.0	90.47	264.69	7,984.3	-1,073.7	-3,896.4	3,988.1	0.00	0.00	0.00
12,000.0	90.47	264.69	7,983.5	-1,083.0	-3,995.9	4,088.1	0.00	0.00	0.00
12,100.0	90.47	264.69	7,982.7	-1,092.2	-4,095.5	4,188.1	0.00	0.00	0.00
12,134.7	90.47	264.69	7,982.4	-1,095.4	-4,130.0	4,222.8	0.00	0.00	0.00
Start DLS 2.00 TFO 89.94									
12,200.0	90.47	266.00	7,981.9	-1,100.7	-4,195.1	4,288.1	2.00	0.00	2.00
12,300.0	90.47	268.00	7,981.1	-1,106.0	-4,295.0	4,387.9	2.00	0.00	2.00
12,400.0	90.47	270.00	7,980.2	-1,107.7	-4,395.0	4,487.5	2.00	0.00	2.00
12,500.0	90.47	272.00	7,979.4	-1,106.0	-4,495.0	4,586.8	2.00	0.00	2.00
12,587.4	90.47	273.75	7,978.7	-1,101.6	-4,582.3	4,673.1	2.00	0.00	2.00
Start 800.0 hold at 12587.4 MD									
12,600.0	90.47	273.75	7,978.6	-1,100.7	-4,594.8	4,685.5	0.00	0.00	0.00
12,700.0	90.47	273.75	7,977.8	-1,094.2	-4,694.6	4,784.0	0.00	0.00	0.00
12,800.0	90.47	273.75	7,977.0	-1,087.7	-4,794.4	4,882.6	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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)
12,900.0	90.47	273.75	7,976.1	-1,081.1	-4,894.2	4,981.1	0.00	0.00	0.00
13,000.0	90.47	273.75	7,975.3	-1,074.6	-4,993.9	5,079.6	0.00	0.00	0.00
13,100.0	90.47	273.75	7,974.5	-1,068.0	-5,093.7	5,178.2	0.00	0.00	0.00
13,200.0	90.47	273.75	7,973.7	-1,061.5	-5,193.5	5,276.7	0.00	0.00	0.00
13,300.0	90.47	273.75	7,972.8	-1,055.0	-5,293.3	5,375.2	0.00	0.00	0.00
13,387.4	90.47	273.75	7,972.1	-1,049.3	-5,380.5	5,461.4	0.00	0.00	0.00
Start DLS 2.00 TFO -89.84									
13,400.0	90.47	273.50	7,972.0	-1,048.5	-5,393.1	5,473.8	2.00	0.01	-2.00
13,500.0	90.48	271.50	7,971.2	-1,044.1	-5,493.0	5,572.6	2.00	0.01	-2.00
13,585.2	90.48	269.80	7,970.5	-1,043.1	-5,578.1	5,657.2	2.00	0.00	-2.00
Start 4281.4 hold at 13585.2 MD									
13,600.0	90.48	269.80	7,970.4	-1,043.2	-5,593.0	5,672.0	0.00	0.00	0.00
13,700.0	90.48	269.80	7,969.5	-1,043.5	-5,693.0	5,771.4	0.00	0.00	0.00
13,800.0	90.48	269.80	7,968.7	-1,043.9	-5,793.0	5,870.9	0.00	0.00	0.00
13,900.0	90.48	269.80	7,967.9	-1,044.3	-5,892.9	5,970.4	0.00	0.00	0.00
14,000.0	90.48	269.80	7,967.0	-1,044.6	-5,992.9	6,069.8	0.00	0.00	0.00
14,100.0	90.48	269.80	7,966.2	-1,045.0	-6,092.9	6,169.3	0.00	0.00	0.00
14,200.0	90.48	269.80	7,965.3	-1,045.3	-6,192.9	6,268.8	0.00	0.00	0.00
14,300.0	90.48	269.80	7,964.5	-1,045.7	-6,292.9	6,368.3	0.00	0.00	0.00
14,400.0	90.48	269.80	7,963.7	-1,046.0	-6,392.9	6,467.7	0.00	0.00	0.00
14,500.0	90.48	269.80	7,962.8	-1,046.4	-6,492.9	6,567.2	0.00	0.00	0.00
14,600.0	90.48	269.80	7,962.0	-1,046.8	-6,592.9	6,666.7	0.00	0.00	0.00
14,700.0	90.48	269.80	7,961.2	-1,047.1	-6,692.9	6,766.1	0.00	0.00	0.00
14,800.0	90.48	269.80	7,960.3	-1,047.5	-6,792.9	6,865.6	0.00	0.00	0.00
14,900.0	90.48	269.80	7,959.5	-1,047.8	-6,892.9	6,965.1	0.00	0.00	0.00
15,000.0	90.48	269.80	7,958.6	-1,048.2	-6,992.9	7,064.6	0.00	0.00	0.00
15,100.0	90.48	269.80	7,957.8	-1,048.5	-7,092.9	7,164.0	0.00	0.00	0.00
15,200.0	90.48	269.80	7,957.0	-1,048.9	-7,192.9	7,263.5	0.00	0.00	0.00
15,300.0	90.48	269.80	7,956.1	-1,049.3	-7,292.9	7,363.0	0.00	0.00	0.00
15,400.0	90.48	269.80	7,955.3	-1,049.6	-7,392.9	7,462.5	0.00	0.00	0.00
15,500.0	90.48	269.80	7,954.5	-1,050.0	-7,492.9	7,561.9	0.00	0.00	0.00
15,600.0	90.48	269.80	7,953.6	-1,050.3	-7,592.9	7,661.4	0.00	0.00	0.00
15,700.0	90.48	269.80	7,952.8	-1,050.7	-7,692.9	7,760.9	0.00	0.00	0.00
15,800.0	90.48	269.80	7,951.9	-1,051.1	-7,792.9	7,860.3	0.00	0.00	0.00
15,900.0	90.48	269.80	7,951.1	-1,051.4	-7,892.9	7,959.8	0.00	0.00	0.00
16,000.0	90.48	269.80	7,950.3	-1,051.8	-7,992.9	8,059.3	0.00	0.00	0.00
16,100.0	90.48	269.80	7,949.4	-1,052.1	-8,092.9	8,158.8	0.00	0.00	0.00
16,200.0	90.48	269.80	7,948.6	-1,052.5	-8,192.9	8,258.2	0.00	0.00	0.00
16,300.0	90.48	269.80	7,947.7	-1,052.8	-8,292.8	8,357.7	0.00	0.00	0.00
16,400.0	90.48	269.80	7,946.9	-1,053.2	-8,392.8	8,457.2	0.00	0.00	0.00
16,500.0	90.48	269.80	7,946.1	-1,053.6	-8,492.8	8,556.6	0.00	0.00	0.00
16,600.0	90.48	269.80	7,945.2	-1,053.9	-8,592.8	8,656.1	0.00	0.00	0.00
16,700.0	90.48	269.80	7,944.4	-1,054.3	-8,692.8	8,755.6	0.00	0.00	0.00
16,800.0	90.48	269.80	7,943.6	-1,054.6	-8,792.8	8,855.1	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	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)
16,900.0	90.48	269.80	7,942.7	-1,055.0	-8,892.8	8,954.5	0.00	0.00	0.00
17,000.0	90.48	269.80	7,941.9	-1,055.3	-8,992.8	9,054.0	0.00	0.00	0.00
17,100.0	90.48	269.80	7,941.0	-1,055.7	-9,092.8	9,153.5	0.00	0.00	0.00
17,200.0	90.48	269.80	7,940.2	-1,056.1	-9,192.8	9,252.9	0.00	0.00	0.00
17,300.0	90.48	269.80	7,939.4	-1,056.4	-9,292.8	9,352.4	0.00	0.00	0.00
17,400.0	90.48	269.80	7,938.5	-1,056.8	-9,392.8	9,451.9	0.00	0.00	0.00
17,500.0	90.48	269.80	7,937.7	-1,057.1	-9,492.8	9,551.4	0.00	0.00	0.00
17,600.0	90.48	269.80	7,936.9	-1,057.5	-9,592.8	9,650.8	0.00	0.00	0.00
17,700.0	90.48	269.80	7,936.0	-1,057.8	-9,692.8	9,750.3	0.00	0.00	0.00
17,800.0	90.48	269.80	7,935.2	-1,058.2	-9,792.8	9,849.8	0.00	0.00	0.00
17,866.6	90.48	269.80	7,934.6	-1,058.4	-9,859.4	9,916.0	0.00	0.00	0.00
TD at 17866.6									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (MOODY ST COI - hit/miss target - Shape	0.48	69.86	7,934.0	-1,058.7	-9,947.2	411,551.46	561,863.98	32° 7' 52.730 N	104° 8' 0.541 W
- plan misses target center by 87.8usft at 17866.6usft MD (7934.6 TVD, -1058.4 N, -9859.4 E) - Rectangle (sides W100.0 H9,949.0 D20.0)									
LTP (MOODY ST COI - plan misses target center by 37.8usft at 17866.6usft MD (7934.6 TVD, -1058.4 N, -9859.4 E) - Point	0.00	0.00	7,934.0	-1,058.6	-9,897.2	411,551.61	561,913.98	32° 7' 52.730 N	104° 7' 59.959 W
*POI #1 (MOODY ST - plan hits target center - Point	0.00	0.00	7,982.4	-1,095.4	-4,130.0	411,514.77	567,681.13	32° 7' 52.255 N	104° 6' 52.890 W
FTP (MOODY ST CO - plan misses target center by 453.2usft at 8202.2usft MD (8002.6 TVD, -640.3 N, -273.0 E) - Circle (radius 50.0)	0.00	0.00	8,014.0	-1,035.1	-50.7	411,575.14	571,760.42	32° 7' 52.768 N	104° 6' 5.448 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	-11	1	Start 4823.4 hold at 2750.0 MD
7573	7555	-430	38	Start DLS 12.00 TFO 66.42
8311	8014	-693	-367	Start DLS 2.00 TFO 89.88
9735	8002	-1043	-1732	Start 1750.0 hold at 9734.6 MD
11,485	7988	-1047	-3482	Start DLS 2.00 TFO -90.03
11,743	7986	-1059	-3740	Start 391.9 hold at 11742.8 MD
12,135	7982	-1095	-4130	Start DLS 2.00 TFO 89.94
12,587	7979	-1102	-4582	Start 800.0 hold at 12587.4 MD
13,387	7972	-1049	-5381	Start DLS 2.00 TFO -89.84
13,585	7970	-1043	-5578	Start 4281.4 hold at 13585.2 MD
17,867	7935	-1058	-9859	TD at 17866.6

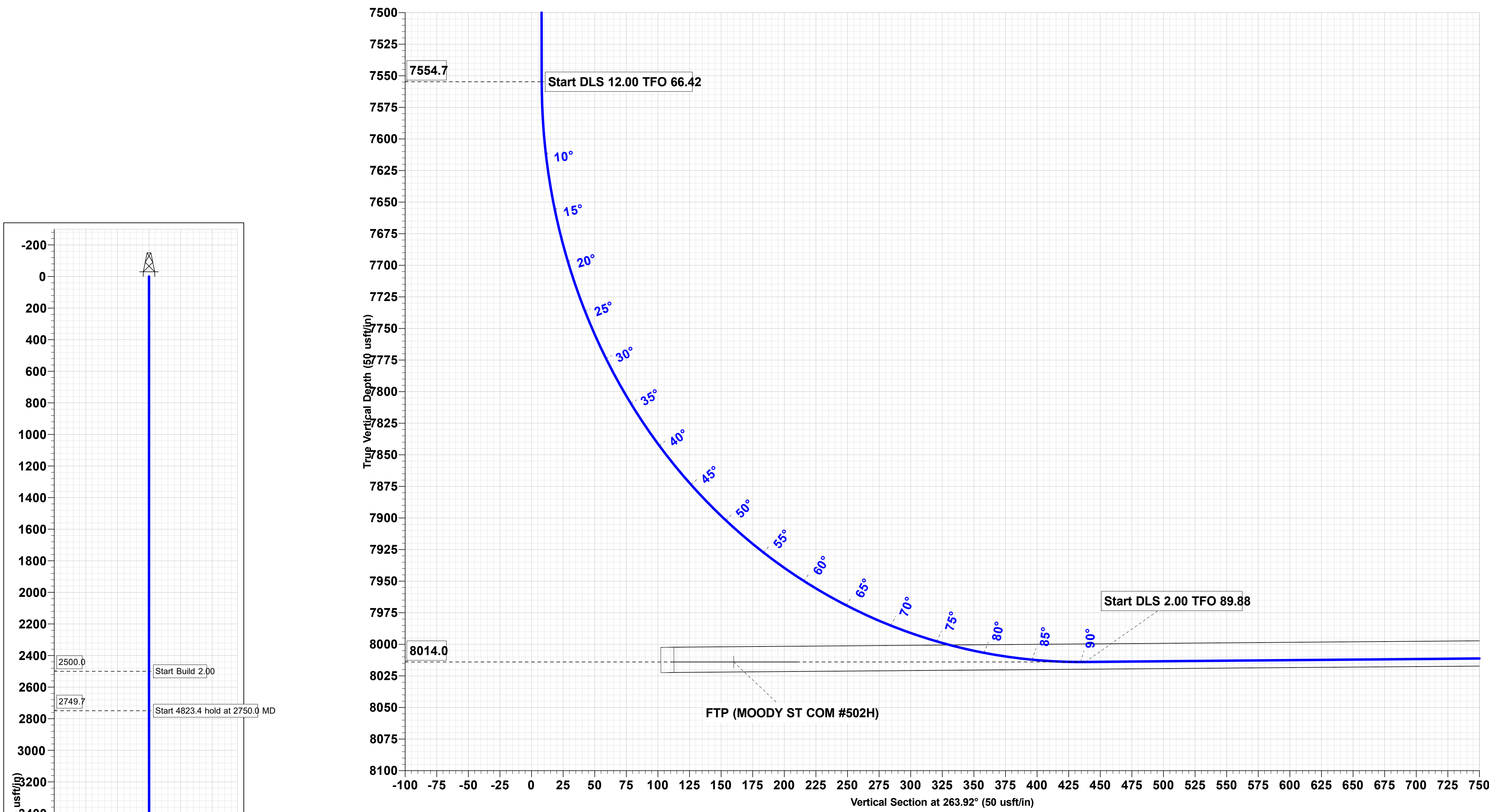
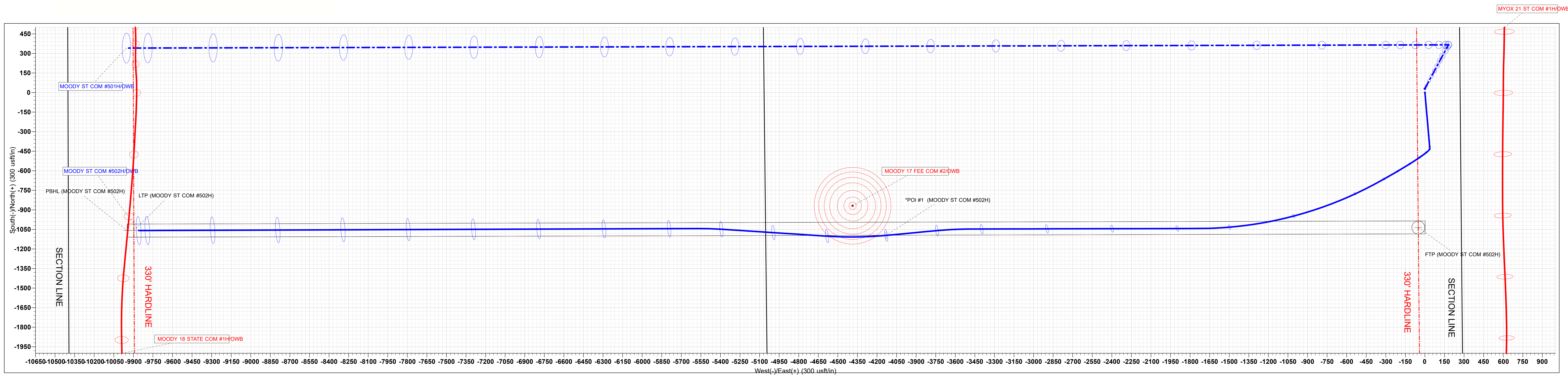
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Survey Report



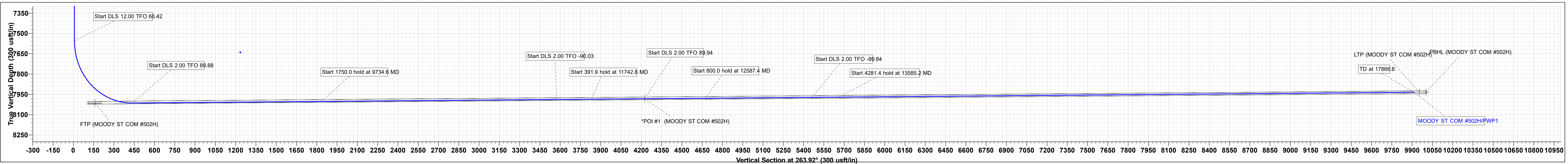
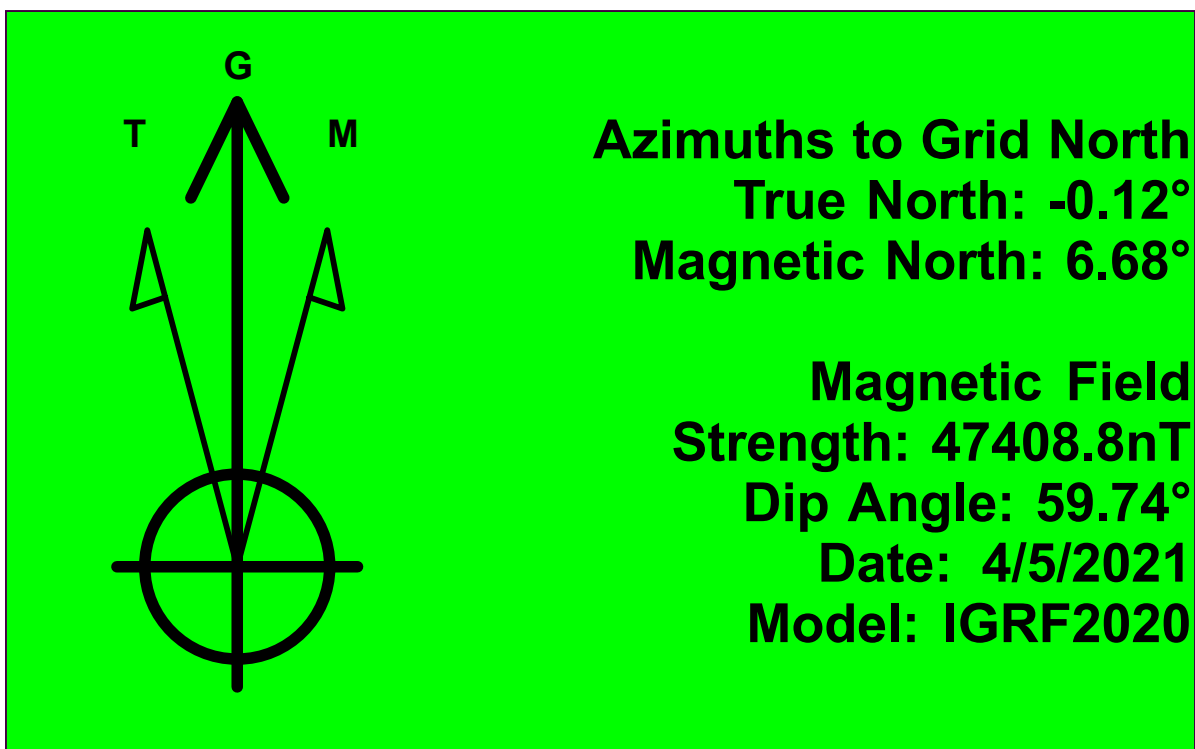
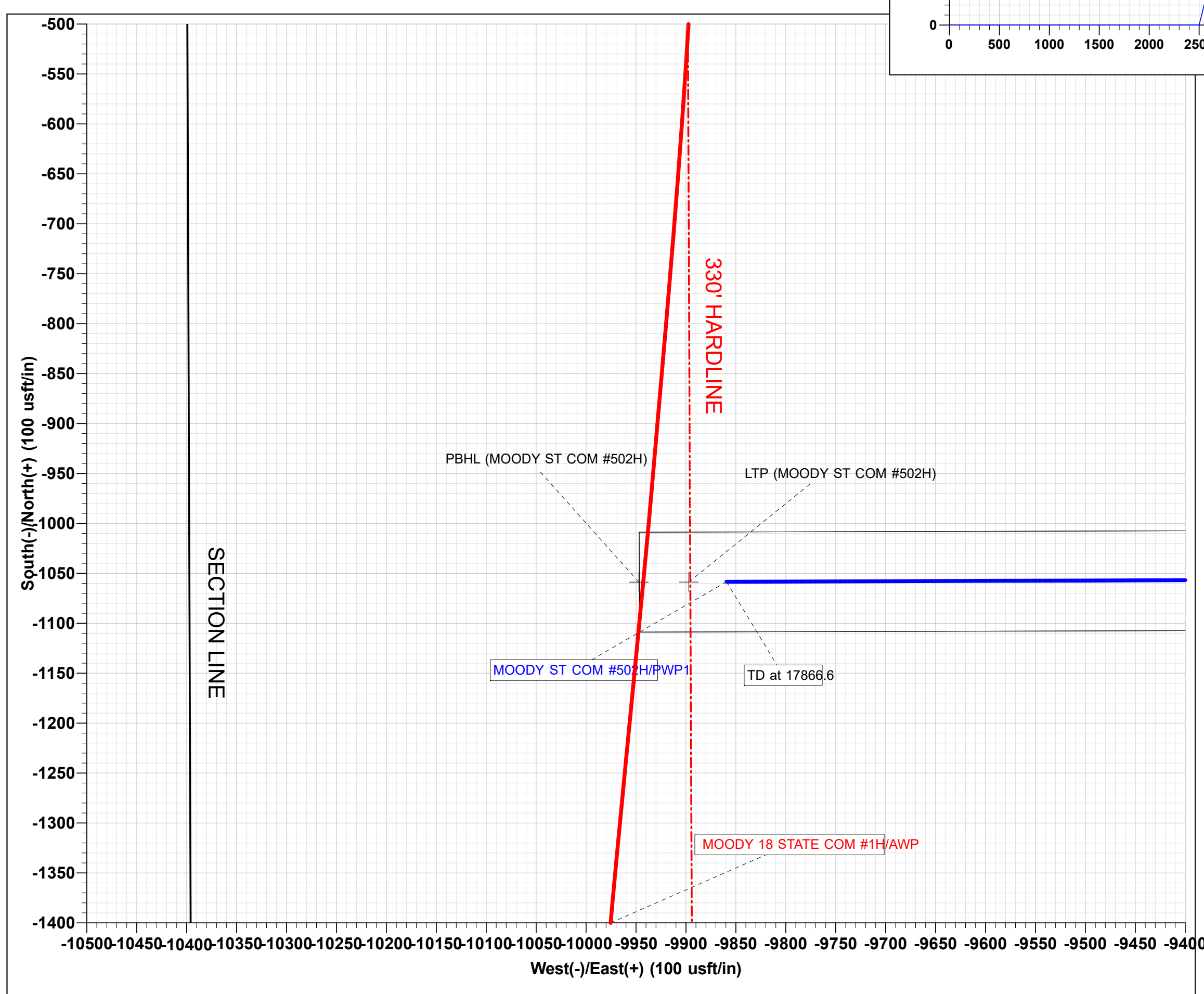
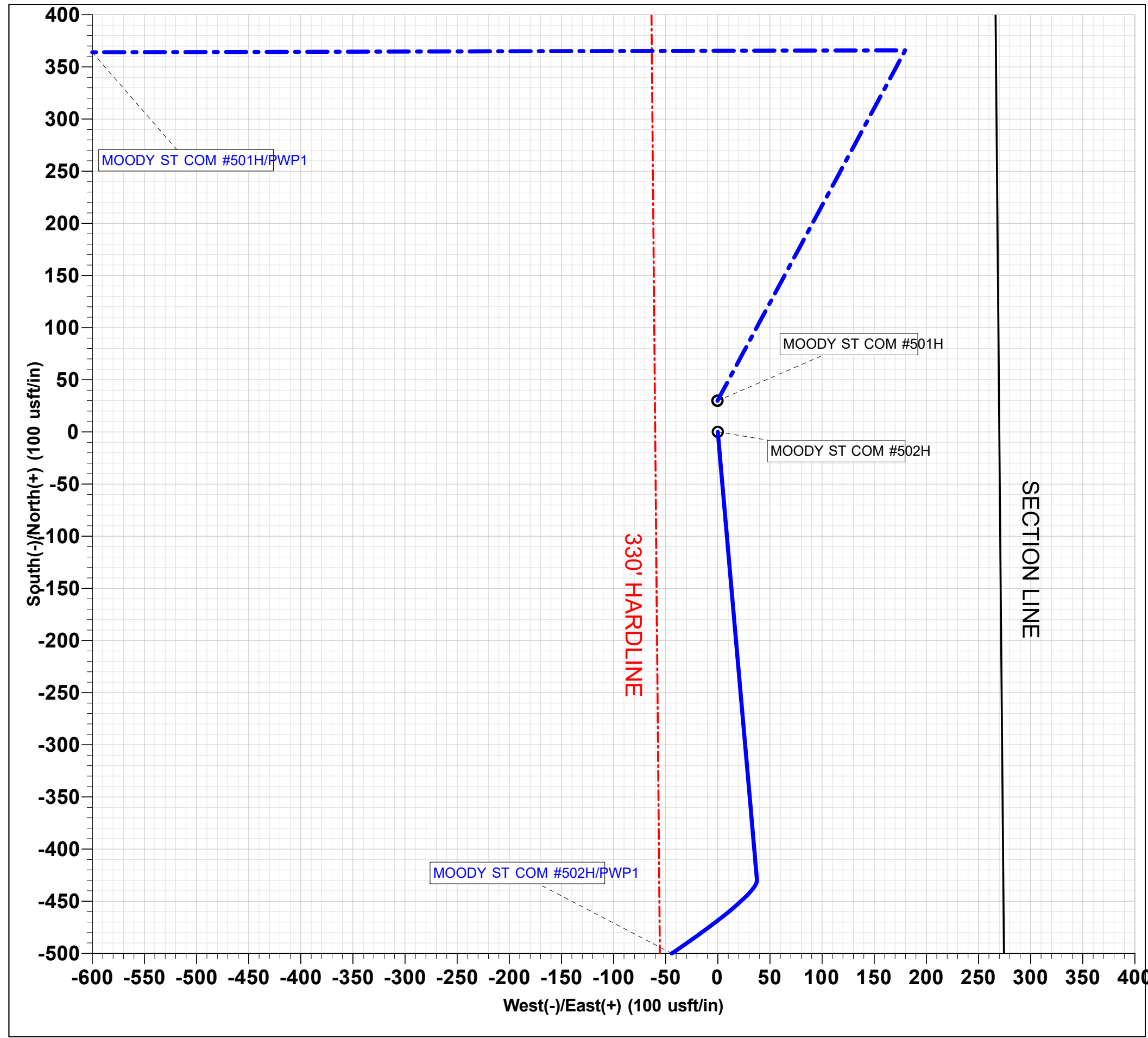
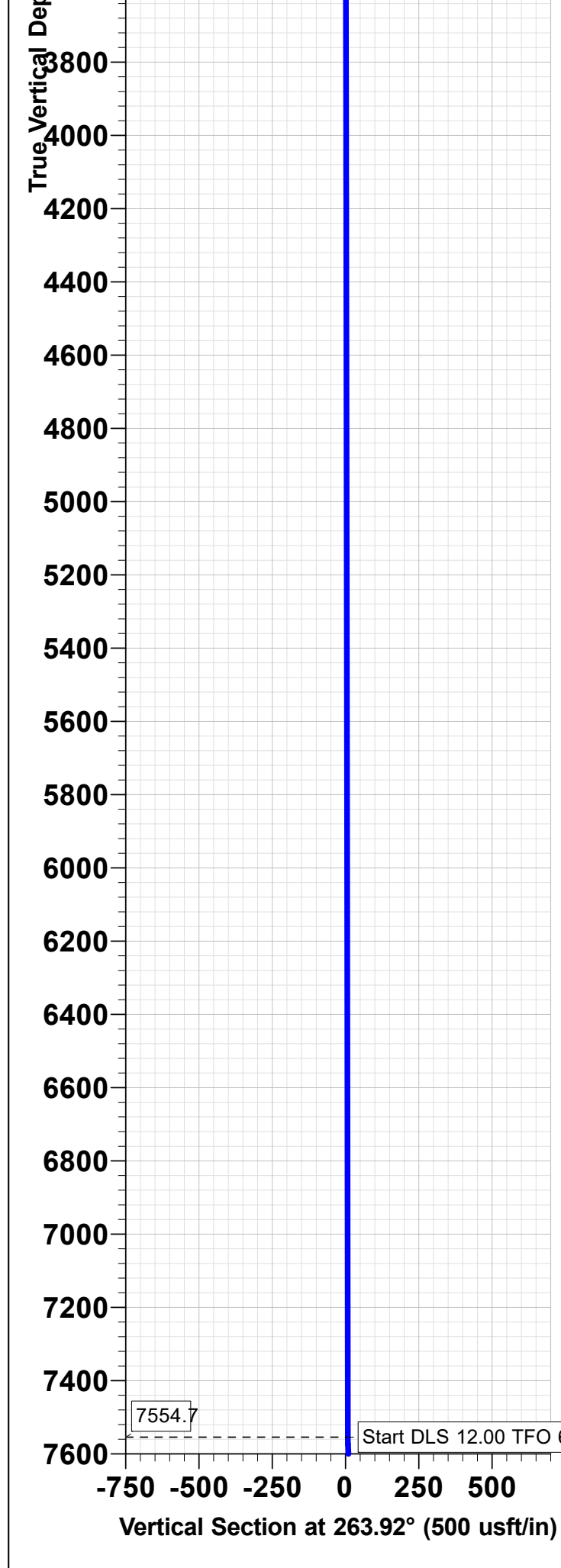
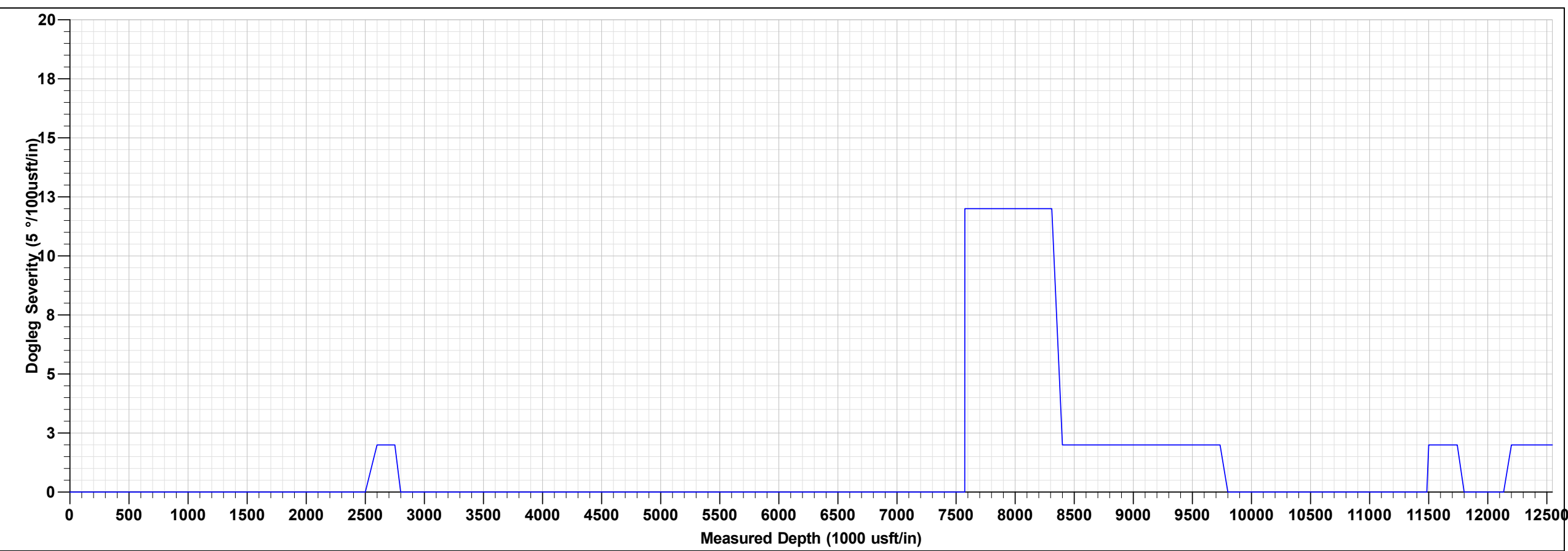
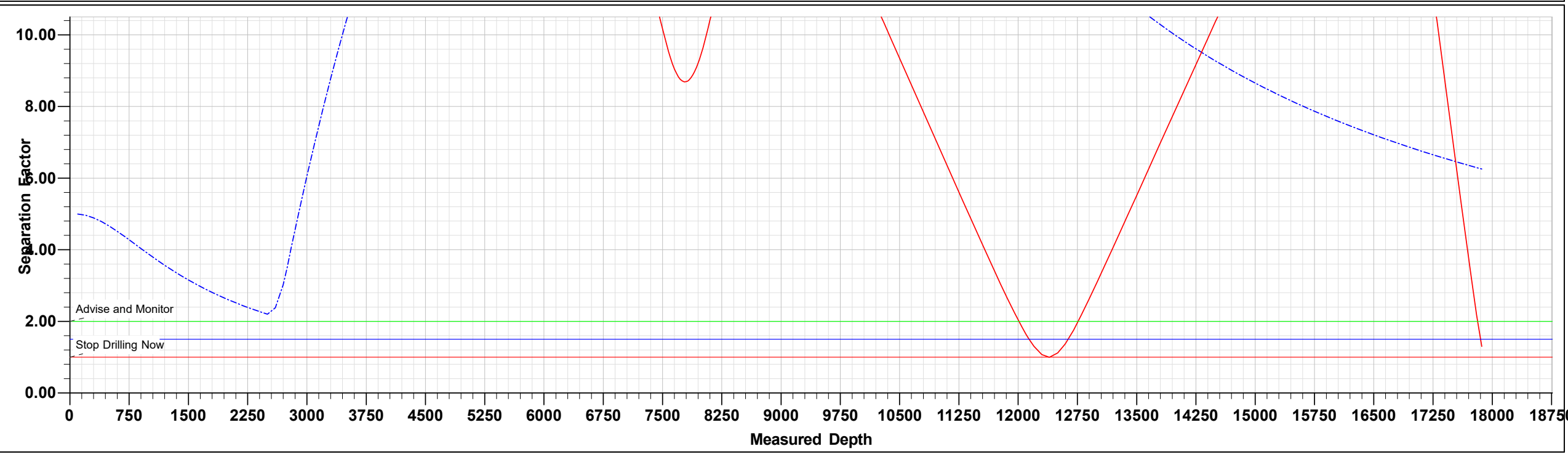
Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Well:	MOODY ST COM #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Checked By: _____ Approved By: _____ Date: _____



MOODY ST COM #502H										
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	
2750.0	5.00	175.00	2749.7	-10.9	1.0	2.00	175.00	0.2	Start 4823.4 hold at 2750.0 MD	
7573.4	5.00	175.00	7554.7	-429.6	37.6	0.00	0.00	8.1	Start DLS 12.00 TFO 66.42	
8310.6	90.47	241.38	8014.0	-692.7	-366.9	12.00	66.42	438.2	Start DLS 2.00 TFO 89.88	
9734.6	90.47	269.86	8002.1	-1042.7	-1732.1	2.00	89.88	1832.7	Start 1750.0 hold at 9734.6 MD	
11484.6	90.47	269.86	7987.7	-1046.9	-3482.0	0.00	0.00	3573.2	Start DLS 12.00 TFO -90.03	
11742.8	90.47	264.69	7985.6	-1059.2	-3739.9	2.00	-90.03	3831.0	Start 391.9 hold at 11742.8 MD	
12134.7	90.47	264.69	7982.4	-1095.4	-4130.0	0.00	0.00	4222.8	Start DLS 2.00 TFO 89.94	
12587.4	90.47	273.75	7978.7	-1101.6	-4582.3	2.00	89.94	4673.1	Start 800.0 hold at 12587.4 MD	
13387.4	90.47	273.75	7972.1	-1049.3	-5380.5	0.00	0.00	5461.4	Start DLS 2.00 TFO -89.84	
13585.2	90.48	269.80	7970.5	-1043.1	-5578.1	2.00	-89.84	5657.2	Start 4281.4 hold at 13585.2 MD	
17866.6	90.48	269.80	7934.6	-1058.4	-9859.4	0.00	0.00	9916.0	TD at 17866.6	

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
LTP (MOODY ST COM #502H)	7934.0	-1058.6	-9897.2	411551.61	561913.98
PBHL (MOODY ST COM #502H)	7934.0	-1058.7	-9947.2	411551.46	561863.98
*POI #1 (MOODY ST COM #502H)	7982.4	-1095.4	-4130.0	411514.78	567681.12
FTP (MOODY ST COM #502H)	8014.0	-1035.1	-50.8	411575.14	571760.42



DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #502H**

**OWB
PWP1**

Anticollision Report

06 April, 2021

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 2,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/6/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,573.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,573.0	17,866.6	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						
MOODY ST COM PROJECT						
MOODY 17 FEE COM #2 - OWB - AWP	12,391.2	8,005.9	239.4	0.1	1.001	Shut in Produces, CC, ES
MOODY 18 STATE COM #1H - OWB - AWP	17,866.6	9,446.2	113.6	26.1	1.299	Shut in Produces, CC, ES
MOODY ST COM #501H - OWB - PWP1	2,416.3	2,417.3	30.0	16.7	2.261	CC
MOODY ST COM #501H - OWB - PWP1	2,500.0	2,501.0	30.0	16.4	2.201	ES, SF
MYOX 30 & 31 STATE PROJECT (ATLAS 2528)						
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,775.0	16,710.7	678.4	600.3	8.689	SF
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,812.7	16,700.3	676.1	598.4	8.703	CC, ES

MOODY ST COM PROJECT - MOODY 17 FEE COM #2 - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 201-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
0.0	0.0	23.0	23.0	3.0	3.0	-101.20	-868.3	-4,386.9	4,472.0				
100.0	100.0	123.0	123.0	3.0	3.2	-101.20	-868.3	-4,386.9	4,472.0	4,465.9	6.16	725.794	
200.0	200.0	223.0	223.0	3.0	3.7	-101.20	-868.3	-4,386.9	4,472.0	4,465.4	6.66	671.932	
278.1	278.1	301.1	301.1	3.0	4.8	-101.19	-868.2	-4,386.9	4,472.0	4,464.2	7.77	575.508	
300.0	300.0	322.6	322.6	3.0	5.1	-101.19	-868.2	-4,386.9	4,472.0	4,463.9	8.13	550.397	
400.0	400.0	423.0	423.0	3.0	7.1	-101.20	-868.3	-4,386.9	4,472.0	4,462.0	10.07	444.167	
500.0	500.0	523.0	523.0	3.1	9.6	-101.20	-868.3	-4,386.9	4,472.0	4,459.4	12.64	353.669	
528.3	528.3	549.4	549.4	3.1	10.3	-101.18	-867.4	-4,386.9	4,471.8	4,458.5	13.34	335.199	
600.0	600.0	614.5	614.4	3.1	12.1	-101.19	-867.8	-4,386.9	4,471.9	4,456.9	15.08	296.621	
700.0	700.0	723.2	723.0	3.1	15.1	-101.20	-868.3	-4,386.9	4,472.0	4,453.9	18.13	246.674	
758.3	758.3	781.4	781.2	3.1	16.8	-101.18	-867.3	-4,386.9	4,471.8	4,452.0	19.82	225.571	
800.0	800.0	818.6	818.4	3.2	17.9	-101.18	-867.4	-4,386.9	4,471.9	4,450.9	20.91	213.869	
900.0	900.0	923.3	923.0	3.2	20.9	-101.20	-868.3	-4,386.9	4,472.0	4,448.0	24.01	186.295	
1,000.0	1,000.0	1,023.3	1,023.0	3.2	24.0	-101.20	-868.3	-4,386.9	4,472.0	4,445.0	27.08	165.125	
1,027.5	1,027.5	1,048.6	1,048.2	3.3	24.8	-101.18	-867.3	-4,386.9	4,471.8	4,444.0	27.86	160.503	
1,100.0	1,100.0	1,113.3	1,113.0	3.3	26.8	-101.19	-867.7	-4,386.9	4,471.9	4,442.1	29.86	149.755	
1,200.0	1,200.0	1,223.5	1,223.0	3.4	30.0	-101.20	-868.3	-4,386.9	4,472.0	4,438.9	33.12	135.036	
1,258.9	1,258.9	1,282.4	1,281.9	3.4	31.7	-101.18	-867.1	-4,386.9	4,471.8	4,437.0	34.81	128.453	
1,300.0	1,300.0	1,318.6	1,318.1	3.4	32.7	-101.18	-867.2	-4,386.9	4,471.8	4,436.0	35.86	124.717	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #2 - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 201-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	
1,400.0	1,400.0	1,423.6	1,423.0	3.5	35.6	-101.20	-868.3	-4,386.9	4,472.0	4,433.3	38.78	115.323	
1,500.0	1,500.0	1,523.6	1,523.0	3.5	37.8	-101.20	-868.3	-4,386.9	4,472.0	4,431.1	40.97	109.143	
1,535.0	1,535.0	1,558.2	1,557.6	3.6	38.5	-101.18	-867.4	-4,386.9	4,471.9	4,430.1	41.73	107.151	
1,600.0	1,600.0	1,618.5	1,617.9	3.6	39.9	-101.19	-867.6	-4,386.9	4,471.9	4,428.8	43.06	103.848	
1,700.0	1,700.0	1,723.7	1,723.0	3.7	42.1	-101.20	-868.3	-4,386.9	4,472.0	4,426.7	45.38	98.554	
1,800.0	1,800.0	1,823.7	1,823.0	3.8	44.3	-101.20	-868.3	-4,386.9	4,472.0	4,424.4	47.59	93.972	
1,825.1	1,825.1	1,847.7	1,847.1	3.8	44.9	-101.19	-867.9	-4,386.9	4,472.0	4,423.8	48.12	92.931	
1,900.0	1,900.0	1,919.5	1,918.8	3.9	46.4	-101.19	-868.1	-4,386.9	4,472.0	4,422.3	49.71	89.961	
2,000.0	2,000.0	2,023.7	2,023.0	3.9	49.1	-101.20	-868.3	-4,386.9	4,472.0	4,419.6	52.42	85.310	
2,087.2	2,087.2	2,111.0	2,110.2	4.0	51.5	-101.18	-867.3	-4,386.9	4,471.8	4,417.0	54.84	81.540	
2,100.0	2,100.0	2,122.9	2,122.1	4.0	51.8	-101.18	-867.3	-4,386.9	4,471.8	4,416.7	55.17	81.050	
2,200.0	2,200.0	2,216.3	2,215.5	4.1	54.4	-101.19	-867.7	-4,386.9	4,471.9	4,414.2	57.77	77.409	
2,300.0	2,300.0	2,323.9	2,323.0	4.2	57.2	-101.20	-868.3	-4,386.9	4,472.0	4,411.4	60.64	73.748	
2,400.0	2,400.0	2,423.9	2,423.0	4.3	59.7	-101.20	-868.3	-4,386.9	4,472.0	4,408.8	63.20	70.763	
2,500.0	2,500.0	2,522.6	2,521.6	4.4	62.2	-101.17	-866.3	-4,386.9	4,471.6	4,405.9	65.72	68.037	
2,549.1	2,549.1	2,568.7	2,567.8	4.4	63.4	83.83	-866.5	-4,386.9	4,471.6	4,404.7	66.91	66.835	
2,600.0	2,600.0	2,616.5	2,615.5	4.4	64.6	83.85	-866.8	-4,386.9	4,471.6	4,403.4	68.13	65.634	
2,700.0	2,699.8	2,710.4	2,709.4	4.4	67.0	83.90	-867.9	-4,386.9	4,471.2	4,400.7	70.53	63.392	
2,750.0	2,749.7	2,773.7	2,772.7	4.4	68.4	83.97	-868.3	-4,386.9	4,470.9	4,398.9	71.97	62.119	
2,800.0	2,799.5	2,823.6	2,822.5	4.4	69.4	84.02	-868.3	-4,386.9	4,470.4	4,397.4	73.03	61.215	
2,900.0	2,899.1	2,923.2	2,922.1	4.3	71.5	84.13	-868.3	-4,386.9	4,469.5	4,394.4	75.14	59.482	
3,000.0	2,998.7	3,021.7	3,020.6	4.3	73.6	84.25	-867.3	-4,386.9	4,468.4	4,391.2	77.23	57.858	
3,100.0	3,098.4	3,118.6	3,117.5	4.3	75.6	84.36	-867.6	-4,386.9	4,467.6	4,388.3	79.29	56.346	
3,200.0	3,198.0	3,215.5	3,214.4	4.3	77.6	84.46	-868.2	-4,386.9	4,466.9	4,385.5	81.35	54.910	
3,300.0	3,297.6	3,321.7	3,320.6	4.2	79.8	84.57	-868.3	-4,386.9	4,466.1	4,382.5	83.61	53.413	
3,400.0	3,397.2	3,421.3	3,420.2	4.2	81.9	84.69	-868.3	-4,386.9	4,465.2	4,379.5	85.74	52.076	
3,500.0	3,496.8	3,519.7	3,518.6	4.2	84.0	84.81	-867.3	-4,386.9	4,464.3	4,376.4	87.85	50.817	
3,600.0	3,596.4	3,616.7	3,615.5	4.2	86.0	84.91	-867.6	-4,386.9	4,463.5	4,373.6	89.93	49.636	
3,700.0	3,696.1	3,720.3	3,719.1	4.2	88.2	85.02	-868.3	-4,386.9	4,462.9	4,370.7	92.14	48.434	
3,800.0	3,795.7	3,819.9	3,818.7	4.2	90.3	85.13	-868.3	-4,386.9	4,462.1	4,367.9	94.29	47.325	
3,900.0	3,895.3	3,919.5	3,918.3	4.3	92.4	85.24	-868.3	-4,386.9	4,461.4	4,365.0	96.43	46.265	
4,000.0	3,994.9	4,017.5	4,016.3	4.3	94.4	85.36	-867.4	-4,386.9	4,460.5	4,362.0	98.54	45.265	
4,100.0	4,094.5	4,114.5	4,113.3	4.3	96.5	85.47	-867.7	-4,386.9	4,459.9	4,359.3	100.63	44.318	
4,200.0	4,194.2	4,218.4	4,217.2	4.3	98.6	85.57	-868.3	-4,386.9	4,459.3	4,356.5	102.85	43.357	
4,300.0	4,293.8	4,318.1	4,316.8	4.3	100.6	85.69	-868.3	-4,386.9	4,458.6	4,353.7	104.90	42.502	
4,400.0	4,393.4	4,417.7	4,416.4	4.4	102.6	85.80	-868.3	-4,386.9	4,458.0	4,351.0	106.96	41.680	
4,500.0	4,493.0	4,515.6	4,514.3	4.4	104.6	85.92	-867.3	-4,386.9	4,457.2	4,348.2	108.98	40.900	
4,600.0	4,592.6	4,612.9	4,611.6	4.5	106.5	86.02	-867.7	-4,386.9	4,456.6	4,345.7	110.99	40.154	
4,700.0	4,692.3	4,716.6	4,715.3	4.5	108.6	86.13	-868.3	-4,386.9	4,456.1	4,343.0	113.11	39.397	
4,800.0	4,791.9	4,816.2	4,814.9	4.6	110.5	86.24	-868.3	-4,386.9	4,455.6	4,340.5	115.07	38.719	
4,900.0	4,891.5	4,915.8	4,914.5	4.7	112.4	86.35	-868.3	-4,386.9	4,455.0	4,338.0	117.04	38.063	
5,000.0	4,991.1	5,014.1	5,012.8	4.7	114.3	86.47	-867.6	-4,386.9	4,454.3	4,335.4	118.98	37.436	
5,100.0	5,090.7	5,112.0	5,110.7	4.8	116.1	86.58	-867.9	-4,386.9	4,453.9	4,332.9	120.92	36.833	
5,200.0	5,190.4	5,214.7	5,213.4	4.9	118.2	86.69	-868.3	-4,386.9	4,453.4	4,330.3	123.09	36.181	
5,300.0	5,290.0	5,314.4	5,313.0	4.9	120.5	86.80	-868.3	-4,386.9	4,452.9	4,327.4	125.46	35.492	
5,400.0	5,389.6	5,414.0	5,412.6	5.0	122.9	86.91	-868.3	-4,386.9	4,452.4	4,324.6	127.84	34.828	
5,500.0	5,489.2	5,513.6	5,512.2	5.1	125.2	87.02	-868.3	-4,386.9	4,452.0	4,321.7	130.22	34.189	
5,600.0	5,588.8	5,613.2	5,611.8	5.1	127.5	87.13	-868.3	-4,386.9	4,451.5	4,318.9	132.60	33.572	
5,700.0	5,688.5	5,712.5	5,711.1	5.2	129.8	87.27	-866.7	-4,386.9	4,450.9	4,315.9	134.97	32.977	
5,800.0	5,788.1	5,811.4	5,810.0	5.3	132.1	87.38	-866.9	-4,386.9	4,450.5	4,313.1	137.33	32.407	
5,900.0	5,887.7	5,910.3	5,908.9	5.4	134.3	87.48	-867.1	-4,386.9	4,450.1	4,310.4	139.70	31.856	
6,000.0	5,987.3	6,009.2	6,007.8	5.4	136.6	87.59	-867.5	-4,386.9	4,449.8	4,307.7	142.06	31.323	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #2 - OWB - AWP											Offset Site Error:		3.0 usft
Survey Program: 201-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			
6,100.0	6,086.9	6,108.1	6,106.7	5.5	138.9	87.69	-868.0	-4,386.9	4,449.5	4,305.1	144.43	30.807			
6,200.0	6,186.6	6,211.2	6,209.6	5.6	141.5	87.80	-868.3	-4,386.9	4,449.2	4,302.1	147.08	30.250			
6,300.0	6,286.2	6,309.7	6,308.0	5.7	144.2	87.93	-867.4	-4,386.9	4,448.8	4,298.9	149.84	29.690			
6,400.0	6,385.8	6,403.3	6,401.7	5.8	146.7	88.02	-868.1	-4,386.9	4,448.5	4,296.1	152.46	29.178			
6,500.0	6,485.4	6,510.2	6,508.4	5.8	149.7	88.14	-868.3	-4,386.9	4,448.3	4,292.7	155.54	28.598			
6,600.0	6,585.0	6,606.1	6,604.3	5.9	152.4	88.26	-867.6	-4,386.9	4,447.9	4,289.6	158.33	28.092			
6,700.0	6,684.7	6,709.5	6,707.7	6.0	155.5	88.36	-868.3	-4,386.9	4,447.7	4,286.3	161.45	27.548			
6,800.0	6,784.3	6,809.2	6,807.3	6.1	158.6	88.48	-868.3	-4,386.9	4,447.5	4,282.8	164.67	27.009			
6,900.0	6,883.9	6,908.8	6,906.9	6.2	161.7	88.59	-868.3	-4,386.9	4,447.3	4,279.4	167.88	26.491			
7,000.0	6,983.5	7,005.7	7,003.7	6.3	164.8	88.72	-866.4	-4,386.9	4,446.9	4,275.8	171.01	26.003			
7,100.0	7,083.1	7,102.2	7,100.2	6.4	167.8	88.82	-867.3	-4,386.9	4,446.8	4,272.6	174.13	25.537			
7,200.0	7,182.7	7,208.0	7,205.7	6.4	170.8	88.92	-868.3	-4,386.9	4,446.7	4,269.4	177.26	25.085			
7,300.0	7,282.4	7,307.6	7,305.3	6.5	173.1	89.05	-866.9	-4,386.9	4,446.4	4,266.7	179.66	24.750			
7,383.3	7,365.4	7,384.9	7,382.6	6.6	174.9	89.13	-867.4	-4,386.9	4,446.3	4,264.8	181.52	24.495			
7,400.0	7,382.0	7,400.4	7,398.0	6.6	175.3	89.15	-867.6	-4,386.9	4,446.3	4,264.4	181.89	24.445			
7,500.0	7,481.6	7,507.0	7,504.6	6.7	177.7	89.26	-868.3	-4,386.9	4,446.3	4,261.8	184.45	24.106			
7,573.4	7,554.7	7,580.1	7,577.7	6.8	179.4	89.34	-868.3	-4,386.9	4,446.2	4,260.0	186.18	23.882			
7,575.0	7,556.3	7,581.7	7,579.3	6.8	179.5	87.33	-868.3	-4,386.9	4,446.2	4,260.0	186.21	23.877			
7,600.0	7,581.2	7,606.5	7,604.2	6.8	180.1	64.47	-868.3	-4,386.9	4,445.5	4,258.7	186.79	23.799			
7,625.0	7,605.9	7,631.3	7,628.9	6.8	180.6	52.44	-868.3	-4,386.9	4,443.6	4,256.2	187.37	23.715			
7,650.0	7,630.5	7,655.8	7,653.5	6.8	181.2	45.73	-868.3	-4,386.9	4,440.5	4,252.5	187.95	23.626			
7,675.0	7,654.8	7,680.2	7,677.8	6.8	181.8	41.66	-868.3	-4,386.9	4,436.2	4,247.7	188.52	23.531			
7,700.0	7,678.8	7,704.2	7,701.8	6.8	182.4	39.05	-868.3	-4,386.9	4,430.7	4,241.6	189.17	23.422			
7,725.0	7,702.4	7,727.8	7,725.4	6.8	183.1	37.36	-868.3	-4,386.9	4,424.1	4,234.3	189.86	23.302			
7,750.0	7,725.5	7,751.0	7,748.5	6.8	183.7	36.27	-868.3	-4,386.9	4,416.4	4,225.8	190.54	23.179			
7,775.0	7,748.2	7,773.6	7,771.2	6.9	184.4	35.62	-868.3	-4,386.9	4,407.5	4,216.3	191.20	23.051			
7,800.0	7,770.2	7,795.7	7,793.2	6.9	185.0	35.31	-868.3	-4,386.9	4,397.5	4,205.7	191.86	22.921			
7,825.0	7,791.7	7,817.1	7,814.7	6.9	185.6	35.28	-868.3	-4,386.9	4,386.5	4,194.0	192.50	22.787			
7,850.0	7,812.4	7,836.6	7,834.2	7.0	186.1	35.51	-867.0	-4,386.9	4,374.4	4,181.3	193.09	22.655			
7,875.0	7,832.4	7,855.5	7,853.0	7.0	186.7	35.94	-867.1	-4,386.9	4,361.4	4,167.7	193.66	22.521			
7,900.0	7,851.5	7,873.6	7,871.1	7.0	187.2	36.58	-867.2	-4,386.9	4,347.4	4,153.2	194.22	22.384			
7,925.0	7,869.9	7,891.0	7,888.5	7.1	187.7	37.43	-867.4	-4,386.9	4,332.5	4,137.8	194.75	22.246			
7,950.0	7,887.3	7,907.6	7,905.1	7.1	188.2	38.51	-867.6	-4,386.9	4,316.8	4,121.5	195.27	22.107			
7,975.0	7,903.7	7,923.3	7,920.8	7.2	188.6	39.80	-867.9	-4,386.9	4,300.2	4,104.4	195.76	21.967			
8,000.0	7,919.2	7,938.1	7,935.6	7.2	189.0	41.35	-868.2	-4,386.9	4,282.8	4,086.6	196.23	21.825			
8,025.0	7,933.6	7,959.1	7,956.6	7.3	189.5	43.24	-868.3	-4,386.9	4,264.8	4,068.0	196.79	21.672			
8,050.0	7,946.9	7,972.4	7,969.9	7.3	189.8	45.37	-868.3	-4,386.9	4,246.0	4,048.8	197.14	21.538			
8,075.0	7,959.1	7,984.6	7,982.1	7.4	190.1	47.82	-868.3	-4,386.9	4,226.6	4,029.1	197.46	21.405			
8,100.0	7,970.1	7,995.7	7,993.1	7.4	190.3	50.63	-868.3	-4,386.9	4,206.6	4,008.9	197.75	21.272			
8,125.0	7,980.0	8,005.5	8,003.0	7.5	190.6	53.83	-868.3	-4,386.9	4,186.1	3,988.1	198.02	21.140			
8,150.0	7,988.6	8,014.2	8,011.6	7.6	190.7	57.47	-868.3	-4,386.9	4,165.2	3,966.9	198.26	21.008			
8,175.0	7,996.0	8,021.6	8,019.0	7.7	190.9	61.56	-868.3	-4,386.9	4,143.9	3,945.4	198.48	20.878			
8,200.0	8,002.2	8,027.7	8,025.2	7.8	191.0	66.12	-868.3	-4,386.9	4,122.2	3,923.5	198.66	20.750			
8,225.0	8,007.0	8,032.6	8,030.0	7.9	191.1	71.14	-868.3	-4,386.9	4,100.2	3,901.4	198.82	20.623			
8,250.0	8,010.6	8,036.2	8,033.6	8.1	191.2	76.58	-868.3	-4,386.9	4,078.1	3,879.1	198.94	20.499			
8,275.0	8,012.9	8,038.5	8,035.9	8.2	191.3	82.36	-868.3	-4,386.9	4,055.8	3,856.7	199.04	20.377			
8,300.0	8,013.9	8,039.5	8,036.9	8.3	191.3	88.38	-868.3	-4,386.9	4,033.3	3,834.2	199.10	20.258			
8,310.6	8,014.0	8,039.6	8,037.0	8.4	191.3	90.96	-868.3	-4,386.9	4,023.8	3,824.7	199.12	20.208			
8,400.0	8,013.2	8,038.8	8,036.2	8.9	191.3	91.02	-868.3	-4,386.9	3,943.1	3,743.9	199.26	19.789			
8,500.0	8,012.4	8,038.0	8,035.4	9.6	191.3	91.10	-868.3	-4,386.9	3,851.9	3,652.5	199.45	19.313			
8,600.0	8,011.6	8,037.2	8,034.6	10.4	191.2	91.18	-868.3	-4,386.9	3,759.7	3,560.1	199.65	18.832			
8,700.0	8,010.7	8,036.3	8,033.7	11.2	191.2	91.28	-868.3	-4,386.9	3,666.6	3,466.7	199.87	18.345			

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #2 - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 201-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	
8,800.0	8,009.9	8,035.5	8,032.9	12.0	191.2	91.39	-868.3	-4,386.9	3,572.6	3,372.5	200.10	17.854	
8,900.0	8,009.1	8,034.6	8,032.1	12.9	191.2	91.52	-868.3	-4,386.9	3,477.7	3,277.4	200.33	17.360	
9,000.0	8,008.2	8,033.8	8,031.2	13.8	191.2	91.67	-868.3	-4,386.9	3,382.1	3,181.5	200.57	16.862	
9,100.0	8,007.4	8,032.9	8,030.4	14.8	191.2	91.86	-868.3	-4,386.9	3,285.6	3,084.8	200.80	16.363	
9,200.0	8,006.5	8,032.1	8,029.5	15.7	191.1	92.09	-868.3	-4,386.9	3,188.6	2,987.5	201.03	15.861	
9,300.0	8,005.7	8,031.2	8,028.7	16.7	191.1	92.38	-868.3	-4,386.9	3,090.8	2,889.6	201.24	15.359	
9,400.0	8,004.8	8,030.4	8,027.8	17.6	191.1	92.79	-868.3	-4,386.9	2,992.6	2,791.1	201.44	14.856	
9,500.0	8,004.0	8,029.6	8,027.0	18.6	191.1	93.36	-868.3	-4,386.9	2,893.8	2,692.2	201.62	14.353	
9,600.0	8,003.2	8,028.7	8,026.2	19.6	191.1	94.27	-868.3	-4,386.9	2,794.6	2,592.8	201.78	13.850	
9,700.0	8,002.3	8,027.9	8,025.3	20.6	191.0	95.92	-868.3	-4,386.9	2,695.0	2,493.1	201.91	13.348	
9,734.5	8,002.1	8,027.6	8,025.1	20.9	191.0	96.87	-868.3	-4,386.9	2,660.6	2,458.6	201.95	13.174	
9,800.0	8,001.5	8,027.1	8,024.5	21.5	191.0	96.70	-868.3	-4,386.9	2,595.3	2,393.3	202.02	12.847	
9,900.0	8,000.7	8,026.3	8,023.7	22.5	191.0	96.44	-868.3	-4,386.9	2,495.5	2,293.4	202.13	12.346	
10,000.0	7,999.9	8,025.4	8,022.9	23.5	191.0	96.19	-868.3	-4,386.9	2,395.8	2,193.6	202.26	11.846	
10,100.0	7,999.1	8,024.6	8,022.1	24.6	191.0	95.93	-868.3	-4,386.9	2,296.1	2,093.7	202.39	11.345	
10,200.0	7,998.2	8,023.8	8,021.2	25.6	191.0	95.67	-868.3	-4,386.9	2,196.4	1,993.9	202.53	10.845	
10,300.0	7,997.4	8,023.0	8,020.4	26.6	190.9	95.41	-868.3	-4,386.9	2,096.8	1,894.1	202.69	10.345	
10,400.0	7,996.6	8,022.2	8,019.6	27.6	190.9	95.16	-868.3	-4,386.9	1,997.2	1,794.3	202.86	9.845	
10,500.0	7,995.8	8,021.3	8,018.8	28.7	190.9	94.90	-868.3	-4,386.9	1,897.6	1,694.6	203.05	9.345	
10,600.0	7,995.0	8,020.5	8,018.0	29.7	190.9	94.64	-868.3	-4,386.9	1,798.1	1,594.9	203.26	8.846	
10,700.0	7,994.1	8,019.7	8,017.1	30.8	190.9	94.38	-868.3	-4,386.9	1,698.7	1,495.2	203.50	8.347	
10,800.0	7,993.3	8,018.9	8,016.3	31.8	190.8	94.12	-868.3	-4,386.9	1,599.3	1,395.5	203.76	7.849	
10,900.0	7,992.5	8,018.1	8,015.5	32.9	190.8	93.86	-868.3	-4,386.9	1,500.0	1,295.9	204.05	7.351	
11,000.0	7,991.7	8,017.2	8,014.7	34.0	190.8	93.61	-868.3	-4,386.9	1,400.7	1,196.4	204.38	6.854	
11,100.0	7,990.8	8,016.4	8,013.8	35.0	190.8	93.35	-868.3	-4,386.9	1,301.6	1,096.9	204.76	6.357	
11,200.0	7,990.0	8,015.6	8,013.0	36.1	190.8	93.09	-868.3	-4,386.9	1,202.7	997.5	205.20	5.861	
11,300.0	7,989.2	8,014.8	8,012.2	37.2	190.8	92.83	-868.3	-4,386.9	1,103.9	898.2	205.73	5.366	
11,400.0	7,988.4	8,014.0	8,011.4	38.3	190.7	92.57	-868.3	-4,386.9	1,005.4	799.1	206.35	4.872	
11,484.5	7,987.7	8,013.3	8,010.7	39.2	190.7	92.35	-868.3	-4,386.9	922.4	715.4	206.99	4.456	
11,500.0	7,987.6	8,013.1	8,010.6	39.3	190.7	92.25	-868.3	-4,386.9	907.2	700.1	207.12	4.380	
11,600.0	7,986.7	8,012.3	8,009.7	40.4	190.7	91.70	-868.3	-4,386.9	810.0	601.9	208.17	3.891	
11,700.0	7,985.9	8,011.5	8,008.9	41.5	190.7	91.31	-868.3	-4,386.9	714.7	505.0	209.70	3.408	
11,742.8	7,985.6	8,011.2	8,008.6	42.0	190.7	91.17	-868.3	-4,386.9	674.6	464.1	210.54	3.204	
11,800.0	7,985.1	8,010.7	8,008.1	42.6	190.7	91.06	-868.3	-4,386.9	621.9	410.0	211.87	2.935	
11,900.0	7,984.3	8,009.9	8,007.3	43.7	190.6	90.87	-868.3	-4,386.9	531.8	317.0	214.81	2.476	
12,000.0	7,983.5	8,009.1	8,006.5	44.8	190.6	90.69	-868.3	-4,386.9	446.0	227.2	218.82	2.038	
12,100.0	7,982.7	8,008.3	8,005.7	45.9	190.6	90.50	-868.3	-4,386.9	367.5	143.2	224.25	1.639 Advise and Monitor	
12,134.7	7,982.4	8,008.0	8,005.4	46.3	190.6	90.44	-868.3	-4,386.9	342.9	116.4	226.50	1.514 Advise and Monitor	
12,200.0	7,981.9	8,007.4	8,004.9	47.0	190.6	90.33	-868.3	-4,386.9	301.3	70.2	231.06	1.304 Shut in Produces	
12,300.0	7,981.1	8,006.6	8,004.1	48.1	190.6	90.16	-868.3	-4,386.9	254.8	17.3	237.45	1.073 Shut in Produces	
12,391.2	7,980.3	8,005.9	8,003.3	49.1	190.6	90.00	-868.3	-4,386.9	239.4	0.1	239.22	1.001 Shut in Produces, CC, ES, SF	
12,400.0	7,980.2	8,005.8	8,003.2	49.2	190.6	89.98	-868.3	-4,386.9	239.5	0.5	239.05	1.002 Shut in Produces	
12,500.0	7,979.4	8,005.0	8,002.4	50.3	190.5	89.81	-868.3	-4,386.9	261.0	27.5	233.51	1.118 Shut in Produces	
12,587.4	7,978.7	8,004.3	8,001.7	51.2	190.5	89.66	-868.3	-4,386.9	304.2	78.1	226.12	1.345 Shut in Produces	
12,600.0	7,978.6	8,004.2	8,001.6	51.3	190.5	89.63	-868.3	-4,386.9	311.8	86.8	225.07	1.385 Shut in Produces	
12,700.0	7,977.8	8,003.3	8,000.8	52.4	190.5	89.44	-868.3	-4,386.9	381.7	163.9	217.79	1.753 Advise and Monitor	
12,800.0	7,977.0	8,002.5	8,000.0	53.5	190.5	89.25	-868.3	-4,386.9	462.7	250.2	212.58	2.177	
12,900.0	7,976.1	8,001.7	7,999.1	54.6	190.5	89.06	-868.3	-4,386.9	550.1	341.0	209.06	2.631	
13,000.0	7,975.3	8,000.9	7,998.3	55.7	190.4	88.87	-868.3	-4,386.9	641.1	434.4	206.71	3.101	
13,100.0	7,974.5	8,000.1	7,997.5	56.8	190.4	88.68	-868.3	-4,386.9	734.5	529.3	205.17	3.580	
13,200.0	7,973.7	7,999.2	7,996.7	57.8	190.4	88.48	-868.3	-4,386.9	829.4	625.2	204.16	4.063	
13,300.0	7,972.8	7,998.4	7,995.8	58.9	190.4	88.29	-868.3	-4,386.9	925.4	721.9	203.51	4.547	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #2 - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 201-INC-ONLY												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 Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,387.4	7,972.1	7,997.7	7,995.1	59.9	190.4	88.13	-868.3	-4,386.9	1,009.9	806.8	203.16	4.971	
13,400.0	7,972.0	7,997.6	7,995.0	60.0	190.4	88.06	-868.3	-4,386.9	1,022.1	819.0	203.12	5.032	
13,500.0	7,971.2	7,996.8	7,994.2	61.1	190.4	87.44	-868.3	-4,386.9	1,119.9	917.0	202.92	5.519	
13,585.2	7,970.5	7,996.1	7,993.5	62.0	190.3	86.65	-868.3	-4,386.9	1,203.9	1,001.1	202.86	5.935	
13,600.0	7,970.4	7,995.9	7,993.4	62.2	190.3	86.61	-868.3	-4,386.9	1,218.6	1,015.8	202.86	6.007	
13,700.0	7,969.5	7,995.1	7,992.5	63.3	190.3	86.33	-868.3	-4,386.9	1,317.7	1,114.9	202.85	6.496	
13,800.0	7,968.7	7,994.3	7,991.7	64.4	190.3	86.05	-868.3	-4,386.9	1,416.9	1,214.1	202.88	6.984	
13,900.0	7,967.9	7,993.4	7,990.9	65.5	190.3	85.77	-868.3	-4,386.9	1,516.3	1,313.3	202.94	7.472	
14,000.0	7,967.0	7,992.6	7,990.0	66.6	190.3	85.49	-868.3	-4,386.9	1,615.7	1,412.7	203.01	7.959	
14,100.0	7,966.2	7,991.8	7,989.2	67.7	190.2	85.21	-868.3	-4,386.9	1,715.1	1,512.0	203.09	8.445	
14,200.0	7,965.3	7,990.9	7,988.3	68.8	190.2	84.93	-868.3	-4,386.9	1,814.7	1,611.5	203.18	8.931	
14,300.0	7,964.5	7,990.1	7,987.5	69.9	190.2	84.65	-868.3	-4,386.9	1,914.2	1,711.0	203.28	9.417	
14,400.0	7,963.7	7,989.2	7,986.7	71.0	190.2	84.37	-868.3	-4,386.9	2,013.9	1,810.5	203.39	9.902	
14,500.0	7,962.8	7,988.4	7,985.8	72.1	190.2	84.09	-868.3	-4,386.9	2,113.5	1,910.0	203.50	10.386	
14,600.0	7,962.0	7,987.6	7,985.0	73.3	190.2	83.81	-868.3	-4,386.9	2,213.2	2,009.6	203.61	10.870	
14,700.0	7,961.2	7,986.7	7,984.2	74.4	190.1	83.54	-868.3	-4,386.9	2,312.9	2,109.2	203.73	11.353	
14,800.0	7,960.3	7,985.9	7,983.3	75.5	190.1	83.26	-868.3	-4,386.9	2,412.6	2,208.8	203.85	11.836	
14,900.0	7,959.5	7,985.1	7,982.5	76.6	190.1	82.98	-868.3	-4,386.9	2,512.4	2,308.4	203.97	12.318	
15,000.0	7,958.6	7,984.2	7,981.6	77.7	190.1	82.70	-868.3	-4,386.9	2,612.2	2,408.1	204.09	12.799	
15,100.0	7,957.8	7,983.4	7,980.8	78.8	190.1	82.43	-868.3	-4,386.9	2,712.0	2,507.8	204.21	13.280	
15,200.0	7,957.0	7,982.5	7,980.0	79.9	190.0	82.15	-868.3	-4,386.9	2,811.8	2,607.4	204.34	13.761	
15,300.0	7,956.1	7,981.7	7,979.1	81.0	190.0	81.87	-868.3	-4,386.9	2,911.6	2,707.1	204.46	14.240	
15,400.0	7,955.3	7,980.9	7,978.3	82.1	190.0	81.60	-868.3	-4,386.9	3,011.4	2,806.8	204.58	14.720	
15,500.0	7,954.5	7,980.0	7,977.5	83.2	190.0	81.32	-868.3	-4,386.9	3,111.3	2,906.6	204.71	15.198	
15,600.0	7,953.6	7,979.2	7,976.6	84.3	190.0	81.05	-868.3	-4,386.9	3,211.1	3,006.3	204.84	15.677	
15,700.0	7,952.8	7,978.4	7,975.8	85.4	190.0	80.77	-868.3	-4,386.9	3,311.0	3,106.0	204.96	16.154	
15,800.0	7,951.9	7,977.5	7,974.9	86.5	189.9	80.50	-868.3	-4,386.9	3,410.8	3,205.8	205.09	16.631	
15,900.0	7,951.1	7,976.7	7,974.1	87.7	189.9	80.23	-868.3	-4,386.9	3,510.7	3,305.5	205.22	17.107	
16,000.0	7,950.3	7,975.8	7,973.3	88.8	189.9	79.95	-868.3	-4,386.9	3,610.6	3,405.3	205.34	17.583	
16,100.0	7,949.4	7,975.0	7,972.4	89.9	189.9	79.68	-868.3	-4,386.9	3,710.5	3,505.0	205.47	18.058	
16,200.0	7,948.6	7,974.2	7,971.6	91.0	189.9	79.41	-868.3	-4,386.9	3,810.4	3,604.8	205.60	18.533	
16,300.0	7,947.7	7,973.3	7,970.7	92.1	189.8	79.14	-868.3	-4,386.9	3,910.3	3,704.6	205.73	19.007	
16,400.0	7,946.9	7,972.5	7,969.9	93.2	189.8	78.87	-868.3	-4,386.9	4,010.2	3,804.3	205.86	19.481	
16,500.0	7,946.1	7,971.6	7,969.1	94.3	189.8	78.60	-868.3	-4,386.9	4,110.1	3,904.1	205.98	19.953	
16,600.0	7,945.2	7,970.8	7,968.2	95.4	189.8	78.33	-868.3	-4,386.9	4,210.0	4,003.9	206.11	20.426	
16,700.0	7,944.4	7,970.0	7,967.4	96.5	189.8	78.06	-868.3	-4,386.9	4,309.9	4,103.7	206.24	20.897	
16,800.0	7,943.6	7,969.1	7,966.6	97.6	189.7	77.79	-868.3	-4,386.9	4,409.8	4,203.5	206.37	21.369	
16,900.0	7,942.7	7,968.3	7,965.7	98.8	189.7	77.52	-868.3	-4,386.9	4,509.8	4,303.3	206.50	21.839	
17,000.0	7,941.9	7,967.5	7,964.9	99.9	189.7	77.25	-868.3	-4,386.9	4,609.7	4,403.1	206.63	22.309	
17,100.0	7,941.0	7,966.6	7,964.0	101.0	189.7	76.98	-868.3	-4,386.9	4,709.6	4,502.9	206.76	22.778	
17,200.0	7,940.2	7,965.8	7,963.2	102.1	189.7	76.72	-868.3	-4,386.9	4,809.6	4,602.7	206.89	23.247	
17,300.0	7,939.4	7,964.9	7,962.4	103.2	189.7	76.45	-868.3	-4,386.9	4,909.5	4,702.5	207.02	23.715	
17,400.0	7,938.5	7,964.1	7,961.5	104.3	189.6	76.18	-868.3	-4,386.9	5,009.4	4,802.3	207.15	24.183	
17,500.0	7,937.7	7,963.3	7,960.7	105.4	189.6	75.92	-868.3	-4,386.9	5,109.4	4,902.1	207.28	24.650	
17,600.0	7,936.9	7,962.4	7,959.9	106.5	189.6	75.65	-868.3	-4,386.9	5,209.3	5,001.9	207.41	25.116	
17,700.0	7,936.0	7,961.6	7,959.0	107.6	189.6	75.39	-868.3	-4,386.9	5,309.3	5,101.7	207.54	25.582	
17,800.0	7,935.2	7,960.8	7,958.2	108.8	189.6	75.13	-868.3	-4,386.9	5,409.2	5,201.5	207.67	26.047	
17,866.6	7,934.6	7,960.2	7,957.6	109.5	189.5	74.95	-868.3	-4,386.9	5,475.7	5,268.0	207.76	26.357	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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: 100-GYRO-NS, 7347-MWD												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)	+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	-85.66	764.6	-10,066.4	10,095.5				
100.0	100.0	68.6	68.6	3.0	3.0	-85.66	764.8	-10,066.6	10,095.9	10,089.9	6.00	1,682.025	
200.0	200.0	149.1	149.1	3.0	3.1	-85.65	765.3	-10,067.4	10,096.9	10,090.8	6.02	1,677.287	
300.0	300.0	344.3	344.2	3.0	3.4	-85.64	767.1	-10,068.3	10,097.5	10,091.3	6.18	1,632.931	
400.0	400.0	577.2	577.1	3.0	3.9	-85.65	765.7	-10,066.6	10,096.5	10,090.0	6.54	1,544.708	
500.0	500.0	698.1	698.0	3.1	4.2	-85.66	764.3	-10,064.9	10,095.1	10,088.3	6.78	1,489.014	
600.0	600.0	853.0	852.9	3.1	4.6	-85.67	762.5	-10,062.1	10,093.2	10,086.0	7.14	1,413.055	
700.0	700.0	952.9	952.8	3.1	4.9	-85.67	761.4	-10,060.1	10,091.1	10,083.7	7.41	1,362.234	
800.0	800.0	1,043.0	1,042.9	3.2	5.2	-85.68	760.4	-10,058.4	10,089.0	10,081.4	7.66	1,317.276	
900.0	900.0	1,128.2	1,128.0	3.2	5.4	-85.68	759.5	-10,056.8	10,087.1	10,079.2	7.91	1,275.978	
1,000.0	1,000.0	1,212.5	1,212.3	3.2	5.7	-85.69	758.7	-10,055.4	10,085.4	10,077.2	8.16	1,236.435	
1,100.0	1,100.0	1,300.0	1,299.8	3.3	6.0	-85.69	757.7	-10,054.0	10,083.8	10,075.3	8.42	1,197.290	
1,200.0	1,200.0	1,381.8	1,381.6	3.4	6.2	-85.70	756.5	-10,052.9	10,082.3	10,073.6	8.68	1,162.115	
1,300.0	1,300.0	1,456.8	1,456.6	3.4	6.5	-85.70	755.5	-10,052.1	10,081.1	10,072.1	8.92	1,130.792	
1,400.0	1,400.0	1,535.8	1,535.6	3.5	6.7	-85.71	754.6	-10,051.3	10,080.1	10,070.9	9.17	1,099.142	
1,500.0	1,500.0	1,861.4	1,861.1	3.5	7.7	-85.71	752.8	-10,044.7	10,077.9	10,067.7	10.24	984.591	
1,600.0	1,600.0	2,120.4	2,119.9	3.6	8.6	-85.70	754.3	-10,033.8	10,073.4	10,062.2	11.16	902.781	
1,700.0	1,700.0	2,200.0	2,199.4	3.7	8.8	-85.70	754.8	-10,030.1	10,068.8	10,057.3	11.46	878.487	
1,800.0	1,800.0	2,252.8	2,252.1	3.8	9.0	-85.69	755.1	-10,027.8	10,064.5	10,052.9	11.67	862.158	
1,900.0	1,900.0	2,300.0	2,299.3	3.9	9.2	-85.69	755.4	-10,026.0	10,060.7	10,048.8	11.87	847.737	
2,000.0	2,000.0	2,382.6	2,381.8	3.9	9.4	-85.69	755.7	-10,023.0	10,057.1	10,045.0	12.18	825.423	
2,100.0	2,100.0	2,474.5	2,473.7	4.0	9.7	-85.69	755.9	-10,019.9	10,053.8	10,041.3	12.53	802.186	
2,200.0	2,200.0	2,553.6	2,552.7	4.1	10.0	-85.68	756.0	-10,017.4	10,050.6	10,037.8	12.84	782.789	
2,300.0	2,300.0	2,622.6	2,621.7	4.2	10.2	-85.68	756.3	-10,015.3	10,047.7	10,034.6	13.11	766.205	
2,400.0	2,400.0	2,700.0	2,699.1	4.3	10.5	-85.68	756.6	-10,013.3	10,045.1	10,031.7	13.42	748.572	
2,500.0	2,500.0	2,764.4	2,763.4	4.4	10.7	-85.68	757.0	-10,011.8	10,042.8	10,029.1	13.68	734.064	
2,600.0	2,600.0	2,877.9	2,876.9	4.4	11.1	99.38	757.8	-10,009.2	10,040.9	10,026.8	14.12	711.187	
2,700.0	2,699.8	2,984.0	2,982.9	4.4	11.4	99.45	758.6	-10,006.7	10,039.4	10,024.8	14.53	691.020	
2,750.0	2,749.7	3,022.7	3,021.7	4.4	11.6	99.47	758.7	-10,005.7	10,038.8	10,024.2	14.68	683.737	
2,800.0	2,799.5	3,056.1	3,055.1	4.4	11.7	99.49	758.8	-10,005.0	10,038.5	10,023.6	14.82	677.473	
2,900.0	2,899.1	3,100.0	3,099.0	4.3	11.8	99.51	758.8	-10,004.1	10,038.0	10,023.0	15.01	668.811	
2,977.4	2,976.2	3,165.4	3,164.3	4.3	12.0	99.55	758.9	-10,003.0	10,037.8	10,022.6	15.27	657.498	
3,000.0	2,998.7	3,178.6	3,177.5	4.3	12.1	99.55	758.9	-10,002.8	10,037.8	10,022.5	15.32	655.138	
3,100.0	3,098.4	3,239.3	3,238.2	4.3	12.3	99.58	759.0	-10,002.1	10,038.1	10,022.5	15.58	644.480	
3,200.0	3,198.0	3,303.2	3,302.2	4.3	12.5	99.62	759.1	-10,001.6	10,038.8	10,023.0	15.84	633.631	
3,300.0	3,297.6	3,426.8	3,425.8	4.2	12.9	99.68	759.8	-10,000.5	10,039.4	10,023.1	16.33	614.846	
3,400.0	3,397.2	3,500.0	3,498.9	4.2	13.2	99.72	760.2	-10,000.0	10,040.2	10,023.6	16.63	603.575	
3,500.0	3,496.8	3,598.5	3,597.4	4.2	13.5	99.77	760.5	-9,999.4	10,041.1	10,024.1	17.03	589.546	
3,600.0	3,596.4	3,712.2	3,711.1	4.2	13.9	99.83	760.9	-9,998.6	10,041.9	10,024.4	17.48	574.358	
3,700.0	3,696.1	3,800.0	3,798.9	4.2	14.2	99.87	761.1	-9,998.0	10,042.8	10,025.0	17.84	562.928	
3,800.0	3,795.7	3,920.7	3,919.6	4.2	14.6	99.93	760.9	-9,997.2	10,043.6	10,025.3	18.30	548.715	
3,900.0	3,895.3	4,000.0	3,998.9	4.3	14.9	99.97	760.7	-9,996.7	10,044.4	10,025.8	18.62	539.387	
4,000.0	3,994.9	4,083.8	4,082.7	4.3	15.2	100.01	760.3	-9,996.3	10,045.4	10,026.4	18.95	529.989	
4,100.0	4,094.5	4,171.4	4,170.3	4.3	15.5	100.05	760.1	-9,995.9	10,046.5	10,027.2	19.30	520.525	
4,200.0	4,194.2	4,279.2	4,278.2	4.3	15.8	100.10	759.8	-9,995.6	10,047.7	10,028.0	19.72	509.581	
4,300.0	4,293.8	4,387.5	4,386.4	4.3	16.2	100.15	759.5	-9,995.1	10,048.8	10,028.7	20.14	498.954	
4,400.0	4,393.4	4,483.4	4,482.4	4.4	16.5	100.20	759.1	-9,994.7	10,049.9	10,029.3	20.52	489.754	
4,500.0	4,493.0	4,578.6	4,577.5	4.4	16.9	100.24	758.3	-9,994.4	10,051.0	10,030.1	20.90	480.893	
4,600.0	4,592.6	4,661.7	4,660.6	4.5	17.1	100.28	757.5	-9,994.1	10,052.2	10,031.0	21.24	473.193	
4,700.0	4,692.3	4,748.9	4,747.8	4.5	17.4	100.31	756.7	-9,994.1	10,053.6	10,032.0	21.60	465.377	
4,800.0	4,791.9	4,847.0	4,845.9	4.6	17.7	100.36	756.0	-9,994.0	10,055.1	10,033.1	22.00	456.981	
4,900.0	4,891.5	4,936.9	4,935.7	4.7	18.0	100.40	755.1	-9,994.0	10,056.5	10,034.2	22.38	449.409	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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	
5,000.0	4,991.1	5,016.4	5,015.3	4.7	18.3	100.43	754.3	-9,994.2	10,058.2	10,035.5	22.72	442.724	
5,100.0	5,090.7	5,112.1	5,110.9	4.8	18.6	100.47	753.5	-9,994.5	10,060.0	10,036.9	23.12	435.107	
5,200.0	5,190.4	5,200.0	5,198.9	4.9	18.9	100.51	752.9	-9,994.8	10,061.9	10,038.4	23.50	428.202	
5,300.0	5,290.0	5,284.2	5,283.1	4.9	19.2	100.55	752.3	-9,995.2	10,063.9	10,040.0	23.86	421.718	
5,400.0	5,389.6	5,401.7	5,400.6	5.0	19.6	100.60	751.4	-9,995.8	10,066.0	10,041.6	24.35	413.396	
5,500.0	5,489.2	5,489.1	5,488.0	5.1	19.9	100.64	750.8	-9,996.2	10,068.0	10,043.2	24.73	407.131	
5,600.0	5,588.8	5,562.7	5,561.6	5.1	20.1	100.67	750.2	-9,996.7	10,070.1	10,045.1	25.06	401.826	
5,700.0	5,688.5	5,649.1	5,648.0	5.2	20.4	100.71	749.7	-9,997.4	10,072.6	10,047.1	25.44	395.939	
5,800.0	5,788.1	5,817.0	5,815.8	5.3	21.0	100.79	748.4	-9,998.5	10,074.8	10,048.7	26.11	385.900	
5,900.0	5,887.7	5,918.0	5,916.9	5.4	21.3	100.83	747.8	-9,998.8	10,076.7	10,050.1	26.54	379.725	
6,000.0	5,987.3	6,030.6	6,029.4	5.4	21.7	100.88	747.3	-9,999.0	10,078.5	10,051.5	27.01	373.185	
6,100.0	6,086.9	8,490.0	7,900.0	5.5	29.9	97.05	-97.2	-9,876.9	10,062.3	10,027.1	35.20	285.887	
6,200.0	6,186.6	8,490.0	7,900.0	5.6	29.9	97.05	-97.2	-9,876.9	10,046.2	10,010.9	35.31	284.550	
6,300.0	6,286.2	8,490.0	7,900.0	5.7	29.9	97.05	-97.2	-9,876.9	10,031.0	9,995.6	35.41	283.260	
6,400.0	6,385.8	8,490.0	7,900.0	5.8	29.9	97.05	-97.2	-9,876.9	10,016.8	9,981.3	35.52	282.014	
6,500.0	6,485.4	8,490.0	7,900.0	5.8	29.9	97.05	-97.2	-9,876.9	10,003.7	9,968.0	35.62	280.813	
6,600.0	6,585.0	8,490.0	7,900.0	5.9	29.9	97.05	-97.2	-9,876.9	9,991.5	9,955.7	35.73	279.656	
6,700.0	6,684.7	8,490.0	7,900.0	6.0	29.9	97.05	-97.2	-9,876.9	9,980.2	9,944.4	35.83	278.541	
6,800.0	6,784.3	8,490.0	7,900.0	6.1	29.9	97.05	-97.2	-9,876.9	9,970.0	9,934.1	35.93	277.468	
6,900.0	6,883.9	8,490.0	7,900.0	6.2	29.9	97.05	-97.2	-9,876.9	9,960.8	9,924.7	36.03	276.436	
7,000.0	6,983.5	8,490.0	7,900.0	6.3	29.9	97.05	-97.2	-9,876.9	9,952.5	9,916.4	36.13	275.443	
7,100.0	7,083.1	8,490.0	7,900.0	6.4	29.9	97.05	-97.2	-9,876.9	9,945.3	9,909.1	36.23	274.490	
7,200.0	7,182.7	8,490.0	7,900.0	6.4	29.9	97.05	-97.2	-9,876.9	9,939.0	9,902.7	36.33	273.573	
7,300.0	7,282.4	8,490.0	7,900.0	6.5	29.9	97.05	-97.2	-9,876.9	9,933.8	9,897.4	36.43	272.694	
7,400.0	7,382.0	8,490.0	7,900.0	6.6	29.9	97.05	-97.2	-9,876.9	9,929.6	9,893.1	36.53	271.849	
7,500.0	7,481.6	8,490.0	7,900.0	6.7	29.9	97.05	-97.2	-9,876.9	9,926.4	9,889.7	36.62	271.039	
7,573.4	7,554.7	8,490.0	7,900.0	6.8	29.9	97.05	-97.2	-9,876.9	9,924.6	9,888.0	36.66	270.713	
7,575.0	7,556.3	8,490.0	7,900.0	6.8	29.9	95.03	-97.2	-9,876.9	9,924.6	9,887.9	36.66	270.710	
7,600.0	7,581.2	8,490.0	7,900.0	6.8	29.9	72.18	-97.2	-9,876.9	9,923.5	9,886.8	36.67	270.647	
7,625.0	7,605.9	8,490.0	7,900.0	6.8	29.9	60.16	-97.2	-9,876.9	9,921.3	9,884.7	36.67	270.530	
7,650.0	7,630.5	8,490.0	7,900.0	6.8	29.9	53.45	-97.2	-9,876.9	9,918.1	9,881.4	36.68	270.364	
7,675.0	7,654.8	8,490.0	7,900.0	6.8	29.9	49.38	-97.2	-9,876.9	9,913.9	9,877.2	36.70	270.150	
7,700.0	7,678.8	8,490.0	7,900.0	6.8	29.9	46.80	-97.2	-9,876.9	9,908.6	9,871.9	36.71	269.889	
7,725.0	7,702.4	8,490.0	7,900.0	6.8	29.9	45.11	-97.2	-9,876.9	9,902.2	9,865.5	36.73	269.579	
7,750.0	7,725.5	8,490.0	7,900.0	6.8	29.9	44.04	-97.2	-9,876.9	9,894.9	9,858.2	36.75	269.222	
7,775.0	7,748.2	8,490.0	7,900.0	6.9	29.9	43.40	-97.2	-9,876.9	9,886.6	9,849.8	36.78	268.818	
7,800.0	7,770.2	8,520.9	7,898.4	6.9	30.2	42.92	-128.1	-9,877.9	9,877.2	9,840.1	37.05	266.557	
7,825.0	7,791.7	8,523.4	7,898.3	6.9	30.2	42.88	-130.6	-9,878.0	9,866.9	9,829.8	37.10	265.922	
7,850.0	7,812.4	8,526.0	7,898.2	7.0	30.2	43.08	-133.2	-9,878.0	9,855.7	9,818.6	37.16	265.231	
7,875.0	7,832.4	8,528.9	7,898.1	7.0	30.3	43.50	-136.1	-9,878.2	9,843.6	9,806.4	37.22	264.487	
7,900.0	7,851.5	8,531.9	7,897.9	7.0	30.3	44.12	-139.1	-9,878.3	9,830.7	9,793.4	37.28	263.691	
7,925.0	7,869.9	8,535.1	7,897.8	7.1	30.3	44.93	-142.3	-9,878.4	9,816.9	9,779.5	37.35	262.845	
7,950.0	7,887.3	8,538.5	7,897.6	7.1	30.3	45.95	-145.7	-9,878.5	9,802.3	9,764.9	37.42	261.953	
7,975.0	7,903.7	8,542.1	7,897.5	7.2	30.4	47.16	-149.2	-9,878.7	9,786.9	9,749.4	37.50	261.018	
8,000.0	7,919.2	8,545.8	7,897.3	7.2	30.4	48.59	-152.9	-9,878.8	9,770.8	9,733.2	37.57	260.043	
8,025.0	7,933.6	8,549.7	7,897.1	7.3	30.4	50.24	-156.8	-9,879.0	9,754.0	9,716.4	37.66	259.032	
8,050.0	7,946.9	8,553.7	7,896.9	7.3	30.5	52.13	-160.8	-9,879.1	9,736.6	9,698.9	37.74	257.989	
8,075.0	7,959.1	8,584.0	7,895.7	7.4	30.7	54.11	-191.1	-9,880.5	9,718.7	9,680.6	38.04	255.497	
8,100.0	7,970.1	8,584.0	7,895.7	7.4	30.7	56.55	-191.1	-9,880.5	9,700.0	9,661.9	38.09	254.641	
8,125.0	7,980.0	8,584.0	7,895.7	7.5	30.7	59.29	-191.1	-9,880.5	9,680.9	9,642.7	38.15	253.770	
8,150.0	7,988.6	8,584.0	7,895.7	7.6	30.7	62.33	-191.1	-9,880.5	9,661.3	9,623.1	38.20	252.887	
8,175.0	7,996.0	8,584.0	7,895.7	7.7	30.7	65.68	-191.1	-9,880.5	9,641.3	9,603.1	38.26	251.995	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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	
8,200.0	8,002.2	8,584.0	7,895.7	7.8	30.7	69.36	-191.1	-9,880.5	9,621.0	9,582.6	38.32	251.099	
8,225.0	8,007.0	8,584.0	7,895.7	7.9	30.7	73.34	-191.1	-9,880.5	9,600.3	9,561.9	38.37	250.201	
8,250.0	8,010.6	8,584.0	7,895.7	8.1	30.7	77.62	-191.1	-9,880.5	9,579.4	9,541.0	38.42	249.305	
8,275.0	8,012.9	8,584.0	7,895.7	8.2	30.7	82.14	-191.1	-9,880.5	9,558.3	9,519.9	38.48	248.413	
8,300.0	8,013.9	8,584.0	7,895.7	8.3	30.7	86.87	-191.1	-9,880.5	9,537.1	9,498.6	38.53	247.529	
8,310.6	8,014.0	8,584.0	7,895.7	8.4	30.7	88.91	-191.1	-9,880.5	9,528.1	9,489.6	38.55	247.152	
8,400.0	8,013.2	8,623.1	7,894.3	8.9	31.0	88.85	-230.0	-9,882.4	9,451.2	9,412.1	39.08	241.859	
8,500.0	8,012.4	8,643.7	7,893.7	9.6	31.2	88.79	-250.7	-9,883.5	9,363.7	9,324.2	39.49	237.095	
8,600.0	8,011.6	8,679.0	7,893.0	10.4	31.5	88.71	-285.9	-9,885.6	9,274.8	9,234.7	40.05	231.595	
8,700.0	8,010.7	8,774.0	7,892.8	11.2	32.4	88.60	-380.7	-9,890.9	9,184.2	9,143.1	41.15	223.176	
8,800.0	8,009.9	8,807.3	7,893.1	12.0	32.7	88.50	-414.0	-9,892.6	9,092.1	9,050.3	41.73	217.903	
8,900.0	8,009.1	8,830.8	7,893.2	12.9	32.9	88.37	-437.5	-9,893.9	8,998.6	8,956.4	42.20	213.224	
9,000.0	8,008.2	8,852.3	7,893.3	13.8	33.1	88.20	-459.0	-9,895.0	8,904.0	8,861.4	42.65	208.757	
9,100.0	8,007.4	8,869.0	7,893.3	14.8	33.3	87.99	-475.6	-9,896.0	8,808.4	8,765.4	43.05	204.628	
9,200.0	8,006.5	8,869.0	7,893.3	15.7	33.3	87.73	-475.6	-9,896.0	8,711.9	8,668.6	43.28	201.313	
9,300.0	8,005.7	8,869.0	7,893.3	16.7	33.3	87.38	-475.6	-9,896.0	8,614.6	8,571.1	43.49	198.087	
9,400.0	8,004.8	8,901.5	7,893.5	17.6	33.6	86.84	-508.0	-9,897.8	8,516.5	8,472.5	43.98	193.636	
9,500.0	8,004.0	8,908.8	7,893.6	18.6	33.7	86.08	-515.3	-9,898.3	8,417.8	8,373.6	44.22	190.365	
9,600.0	8,003.2	8,914.7	7,893.7	19.6	33.8	84.83	-521.2	-9,898.7	8,318.6	8,274.2	44.42	187.278	
9,700.0	8,002.3	8,919.0	7,893.7	20.6	33.8	82.46	-525.5	-9,898.9	8,219.1	8,174.5	44.58	184.375	
9,734.5	8,002.1	8,920.2	7,893.8	20.9	33.8	81.06	-526.7	-9,899.0	8,184.6	8,140.0	44.62	183.412	
9,800.0	8,001.5	8,922.2	7,893.8	21.5	33.8	81.03	-528.7	-9,899.1	8,119.3	8,074.6	44.71	181.616	
9,900.0	8,000.7	8,925.3	7,893.8	22.5	33.9	80.99	-531.7	-9,899.3	8,019.5	7,974.7	44.83	178.874	
10,000.0	7,999.9	8,928.4	7,893.9	23.5	33.9	80.94	-534.9	-9,899.5	7,919.8	7,874.8	44.96	176.135	
10,100.0	7,999.1	8,931.5	7,893.9	24.6	33.9	80.89	-538.0	-9,899.7	7,820.0	7,774.9	45.10	173.400	
10,200.0	7,998.2	8,934.8	7,894.0	25.6	34.0	80.84	-541.2	-9,899.9	7,720.2	7,675.0	45.24	170.669	
10,300.0	7,997.4	8,938.0	7,894.1	26.6	34.0	80.79	-544.5	-9,900.2	7,620.5	7,575.1	45.38	167.943	
10,400.0	7,996.6	8,964.0	7,894.7	27.6	34.3	80.39	-570.4	-9,901.9	7,520.8	7,475.1	45.70	164.561	
10,500.0	7,995.8	8,964.0	7,894.7	28.7	34.3	80.39	-570.4	-9,901.9	7,421.0	7,375.2	45.82	161.963	
10,600.0	7,995.0	8,964.0	7,894.7	29.7	34.3	80.39	-570.4	-9,901.9	7,321.2	7,275.3	45.94	159.366	
10,700.0	7,994.1	8,964.0	7,894.7	30.8	34.3	80.39	-570.4	-9,901.9	7,221.5	7,175.4	46.06	156.771	
10,800.0	7,993.3	8,964.0	7,894.7	31.8	34.3	80.39	-570.4	-9,901.9	7,121.7	7,075.5	46.19	154.178	
10,900.0	7,992.5	8,964.0	7,894.7	32.9	34.3	80.39	-570.4	-9,901.9	7,022.0	6,975.6	46.32	151.587	
11,000.0	7,991.7	8,964.0	7,894.7	34.0	34.3	80.39	-570.4	-9,901.9	6,922.2	6,875.8	46.46	149.000	
11,100.0	7,990.8	8,964.0	7,894.7	35.0	34.3	80.39	-570.4	-9,901.9	6,822.5	6,775.9	46.60	146.417	
11,200.0	7,990.0	8,964.0	7,894.7	36.1	34.3	80.39	-570.4	-9,901.9	6,722.8	6,676.0	46.74	143.838	
11,300.0	7,989.2	8,964.0	7,894.7	37.2	34.3	80.39	-570.4	-9,901.9	6,623.0	6,576.1	46.88	141.263	
11,400.0	7,988.4	8,964.0	7,894.7	38.3	34.3	80.39	-570.4	-9,901.9	6,523.3	6,476.3	47.03	138.693	
11,484.5	7,987.7	8,983.5	7,895.2	39.2	34.5	80.06	-589.8	-9,903.3	6,439.0	6,391.7	47.30	136.133	
11,500.0	7,987.6	8,984.2	7,895.2	39.3	34.5	80.71	-590.6	-9,903.4	6,423.6	6,376.2	47.33	135.724	
11,600.0	7,986.7	8,990.3	7,895.3	40.4	34.5	83.44	-596.6	-9,903.8	6,324.1	6,276.5	47.55	133.003	
11,700.0	7,985.9	8,998.7	7,895.5	41.5	34.6	84.89	-605.0	-9,904.4	6,224.9	6,177.1	47.83	130.160	
11,742.8	7,985.6	9,003.0	7,895.7	42.0	34.7	85.32	-609.2	-9,904.7	6,182.7	6,134.7	47.96	128.911	
11,800.0	7,985.1	9,009.0	7,895.8	42.6	34.7	85.30	-615.2	-9,905.2	6,126.3	6,078.1	48.15	127.229	
11,900.0	7,984.3	9,019.6	7,896.1	43.7	34.8	85.27	-625.8	-9,905.9	6,027.7	5,979.2	48.49	124.308	
12,000.0	7,983.5	9,030.3	7,896.3	44.8	35.0	85.23	-636.5	-9,906.7	5,929.1	5,880.2	48.83	121.417	
12,100.0	7,982.7	9,041.2	7,896.6	45.9	35.1	85.20	-647.4	-9,907.6	5,830.5	5,781.3	49.18	118.554	
12,134.7	7,982.4	9,059.0	7,897.0	46.3	35.3	85.13	-665.1	-9,909.0	5,796.3	5,747.0	49.38	117.383	
12,200.0	7,981.9	9,059.0	7,897.0	47.0	35.3	84.40	-665.1	-9,909.0	5,731.8	5,682.3	49.56	115.654	
12,300.0	7,981.1	9,059.0	7,897.0	48.1	35.3	82.72	-665.1	-9,909.0	5,632.7	5,582.9	49.81	113.091	
12,400.0	7,980.2	9,069.4	7,897.2	49.2	35.4	79.41	-675.5	-9,909.8	5,533.1	5,483.1	50.07	110.509	
12,500.0	7,979.4	9,075.0	7,897.3	50.3	35.4	71.12	-681.0	-9,910.2	5,433.3	5,383.1	50.26	108.105	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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	
12,587.4	7,978.7	9,077.2	7,897.4	51.2	35.5	40.58	-683.3	-9,910.4	5,346.0	5,295.6	50.37	106.124	
12,600.0	7,978.6	9,077.4	7,897.4	51.3	35.5	40.52	-683.4	-9,910.4	5,333.4	5,283.0	50.39	105.847	
12,700.0	7,977.8	9,078.6	7,897.4	52.4	35.5	40.03	-684.6	-9,910.5	5,233.4	5,182.9	50.49	103.648	
12,800.0	7,977.0	9,079.8	7,897.5	53.5	35.5	39.53	-685.9	-9,910.6	5,133.4	5,082.8	50.60	101.456	
12,900.0	7,976.1	9,081.0	7,897.5	54.6	35.5	39.02	-687.1	-9,910.7	5,033.5	4,982.8	50.70	99.270	
13,000.0	7,975.3	9,082.3	7,897.5	55.7	35.5	38.50	-688.3	-9,910.8	4,933.5	4,882.7	50.81	97.092	
13,100.0	7,974.5	9,083.5	7,897.5	56.8	35.5	37.97	-689.5	-9,910.9	4,833.5	4,782.6	50.92	94.920	
13,200.0	7,973.7	9,084.7	7,897.6	57.8	35.5	37.43	-690.7	-9,911.0	4,733.5	4,682.5	51.03	92.756	
13,300.0	7,972.8	9,085.9	7,897.6	58.9	35.6	36.88	-692.0	-9,911.1	4,633.5	4,582.4	51.14	90.598	
13,387.4	7,972.1	9,087.0	7,897.6	59.9	35.6	36.39	-693.0	-9,911.2	4,546.1	4,494.9	51.24	88.718	
13,400.0	7,972.0	9,087.2	7,897.6	60.0	35.6	44.53	-693.2	-9,911.2	4,533.6	4,482.3	51.26	88.448	
13,500.0	7,971.2	9,090.5	7,897.7	61.1	35.6	71.03	-696.5	-9,911.4	4,433.7	4,382.2	51.41	86.240	
13,585.2	7,970.5	9,095.8	7,897.8	62.0	35.7	77.46	-701.8	-9,911.9	4,348.7	4,297.1	51.59	84.290	
13,600.0	7,970.4	9,096.9	7,897.8	62.2	35.7	77.43	-702.9	-9,911.9	4,333.9	4,282.3	51.63	83.946	
13,700.0	7,969.5	9,104.6	7,898.0	63.3	35.8	77.19	-710.5	-9,912.6	4,234.3	4,182.4	51.87	81.633	
13,800.0	7,968.7	9,112.3	7,898.2	64.4	35.8	76.94	-718.2	-9,913.2	4,134.6	4,082.5	52.11	79.340	
13,900.0	7,967.9	9,120.0	7,898.4	65.5	35.9	76.68	-725.9	-9,913.8	4,035.0	3,982.6	52.36	77.067	
14,000.0	7,967.0	9,127.7	7,898.5	66.6	36.0	76.40	-733.6	-9,914.4	3,935.3	3,882.7	52.60	74.813	
14,100.0	7,966.2	9,135.5	7,898.7	67.7	36.1	76.11	-741.3	-9,915.0	3,835.7	3,782.9	52.85	72.579	
14,200.0	7,965.3	9,143.3	7,898.9	68.8	36.2	75.81	-749.1	-9,915.6	3,736.1	3,683.0	53.10	70.364	
14,300.0	7,964.5	9,151.1	7,899.1	69.9	36.3	75.49	-756.9	-9,916.3	3,636.4	3,583.1	53.35	68.168	
14,400.0	7,963.7	9,155.0	7,899.2	71.0	36.3	75.33	-760.8	-9,916.6	3,536.8	3,483.2	53.60	65.985	
14,500.0	7,962.8	9,155.0	7,899.2	72.1	36.3	75.33	-760.8	-9,916.6	3,437.2	3,383.3	53.87	63.806	
14,600.0	7,962.0	9,170.8	7,899.5	73.3	36.5	74.61	-776.5	-9,917.9	3,337.6	3,283.5	54.11	61.677	
14,700.0	7,961.2	9,177.3	7,899.6	74.4	36.6	74.30	-783.0	-9,918.4	3,238.0	3,183.6	54.38	59.547	
14,800.0	7,960.3	9,183.8	7,899.7	75.5	36.6	73.96	-789.5	-9,918.9	3,138.3	3,083.7	54.64	57.435	
14,900.0	7,959.5	9,190.5	7,899.9	76.6	36.7	73.60	-796.1	-9,919.5	3,038.8	2,983.8	54.91	55.340	
15,000.0	7,958.6	9,197.2	7,900.0	77.7	36.8	73.22	-802.9	-9,920.0	2,939.2	2,884.0	55.18	53.263	
15,100.0	7,957.8	9,204.1	7,900.1	78.8	36.9	72.81	-809.7	-9,920.6	2,839.6	2,784.1	55.46	51.203	
15,200.0	7,957.0	9,211.0	7,900.2	79.9	36.9	72.37	-816.6	-9,921.2	2,740.0	2,684.3	55.74	49.161	
15,300.0	7,956.1	9,218.1	7,900.3	81.0	37.0	71.90	-823.6	-9,921.8	2,640.4	2,584.4	56.02	47.136	
15,400.0	7,955.3	9,225.2	7,900.3	82.1	37.1	71.39	-830.8	-9,922.4	2,540.9	2,484.6	56.30	45.129	
15,500.0	7,954.5	9,232.5	7,900.4	83.2	37.2	70.84	-838.0	-9,923.1	2,441.3	2,384.7	56.59	43.139	
15,600.0	7,953.6	9,239.9	7,900.5	84.3	37.3	70.25	-845.3	-9,923.7	2,341.8	2,284.9	56.88	41.168	
15,700.0	7,952.8	9,250.0	7,900.6	85.4	37.4	69.37	-855.4	-9,924.6	2,242.3	2,185.1	57.15	39.236	
15,800.0	7,951.9	9,256.4	7,900.6	86.5	37.5	68.77	-861.8	-9,925.2	2,142.8	2,085.3	57.46	37.288	
15,900.0	7,951.1	9,266.2	7,900.7	87.7	37.6	67.79	-871.5	-9,926.0	2,043.3	1,985.5	57.74	35.387	
16,000.0	7,950.3	9,275.9	7,900.7	88.8	37.7	66.71	-881.2	-9,926.9	1,943.7	1,885.7	58.02	33.504	
16,100.0	7,949.4	9,285.5	7,900.7	89.9	37.8	65.54	-890.8	-9,927.7	1,844.2	1,786.0	58.29	31.638	
16,200.0	7,948.6	9,295.1	7,900.7	91.0	37.9	64.26	-900.4	-9,928.6	1,744.7	1,686.2	58.57	29.789	
16,300.0	7,947.7	9,304.6	7,900.7	92.1	38.0	62.85	-909.8	-9,929.4	1,645.3	1,586.4	58.85	27.956	
16,400.0	7,946.9	9,314.0	7,900.6	93.2	38.1	61.29	-919.2	-9,930.2	1,545.8	1,486.6	59.14	26.139	
16,500.0	7,946.1	9,323.4	7,900.6	94.3	38.2	59.58	-928.5	-9,931.0	1,446.3	1,386.9	59.43	24.338	
16,600.0	7,945.2	9,332.7	7,900.5	95.4	38.3	57.68	-937.8	-9,931.8	1,346.9	1,287.2	59.72	22.553	
16,700.0	7,944.4	9,341.9	7,900.4	96.5	38.5	55.57	-947.0	-9,932.6	1,247.5	1,187.4	60.03	20.782	
16,800.0	7,943.6	9,350.4	7,900.4	97.6	38.6	53.41	-955.4	-9,933.3	1,148.1	1,087.7	60.37	19.016	
16,900.0	7,942.7	9,358.7	7,900.3	98.8	38.7	51.08	-963.7	-9,934.1	1,048.7	988.0	60.75	17.262	
17,000.0	7,941.9	9,367.1	7,900.2	99.9	38.8	48.45	-972.1	-9,934.8	949.4	888.3	61.16	15.524	
17,100.0	7,941.0	9,375.6	7,900.2	101.0	38.9	45.48	-980.6	-9,935.5	850.2	788.6	61.60	13.801	
17,200.0	7,940.2	9,384.3	7,900.1	102.1	39.0	42.11	-989.2	-9,936.3	751.1	689.0	62.11	12.093	
17,300.0	7,939.4	9,393.2	7,900.1	103.2	39.1	38.27	-998.0	-9,937.1	652.1	589.4	62.71	10.399	
17,400.0	7,938.5	9,402.2	7,900.0	104.3	39.2	33.91	-1,007.0	-9,937.9	553.4	489.9	63.48	8.718	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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	
17,500.0	7,937.7	9,411.3	7,900.0	105.4	39.3	28.98	-1,016.1	-9,938.7	455.0	390.5	64.56	7.049	
17,600.0	7,936.9	9,420.6	7,900.0	106.5	39.4	23.43	-1,025.4	-9,939.6	357.3	291.0	66.28	5.391	
17,700.0	7,936.0	9,430.1	7,900.0	107.6	39.5	17.26	-1,034.8	-9,940.5	261.0	191.4	69.56	3.752	
17,800.0	7,935.2	9,439.8	7,900.1	108.8	39.6	10.54	-1,044.4	-9,941.4	168.4	91.4	77.05	2.186	
17,866.6	7,934.6	9,446.2	7,900.1	109.5	39.7	5.87	-1,050.8	-9,942.0	113.6	26.1	87.46	1.299	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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #501H - 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		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	1.0	1.0	3.0	3.0	-0.52	30.0	-0.3	30.0				
100.0	100.0	101.0	101.0	3.0	3.0	-0.52	30.0	-0.3	30.0	24.0	6.00	4.996	
200.0	200.0	201.0	201.0	3.0	3.0	-0.52	30.0	-0.3	30.0	23.9	6.04	4.962	
300.0	300.0	301.0	301.0	3.0	3.1	-0.52	30.0	-0.3	30.0	23.9	6.13	4.890	
400.0	400.0	401.0	401.0	3.0	3.2	-0.52	30.0	-0.3	30.0	23.7	6.27	4.787	
500.0	500.0	501.0	501.0	3.1	3.4	-0.52	30.0	-0.3	30.0	23.6	6.44	4.659	
600.0	600.0	601.0	601.0	3.1	3.6	-0.52	30.0	-0.3	30.0	23.3	6.64	4.514	
700.0	700.0	701.0	701.0	3.1	3.8	-0.52	30.0	-0.3	30.0	23.1	6.88	4.358	
800.0	800.0	801.0	801.0	3.2	4.0	-0.52	30.0	-0.3	30.0	22.8	7.15	4.196	
900.0	900.0	901.0	901.0	3.2	4.2	-0.52	30.0	-0.3	30.0	22.6	7.44	4.033	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	4.5	-0.52	30.0	-0.3	30.0	22.2	7.74	3.873	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	4.8	-0.52	30.0	-0.3	30.0	21.9	8.07	3.716	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	5.1	-0.52	30.0	-0.3	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	5.4	-0.52	30.0	-0.3	30.0	21.2	8.76	3.422	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	5.7	-0.52	30.0	-0.3	30.0	20.9	9.13	3.285	
1,500.0	1,500.0	1,501.0	1,501.0	3.5	6.0	-0.52	30.0	-0.3	30.0	20.5	9.50	3.155	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	6.3	-0.52	30.0	-0.3	30.0	20.1	9.89	3.033	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	6.6	-0.52	30.0	-0.3	30.0	19.7	10.28	2.917	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	6.9	-0.52	30.0	-0.3	30.0	19.3	10.68	2.808	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	7.2	-0.52	30.0	-0.3	30.0	18.9	11.09	2.705	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	7.6	-0.52	30.0	-0.3	30.0	18.5	11.50	2.608	
2,100.0	2,100.0	2,101.0	2,101.0	4.0	7.9	-0.52	30.0	-0.3	30.0	18.1	11.92	2.517	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	8.2	-0.52	30.0	-0.3	30.0	17.7	12.34	2.431	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	8.6	-0.52	30.0	-0.3	30.0	17.2	12.76	2.350	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	8.9	-0.52	30.0	-0.3	30.0	16.8	13.19	2.273	
2,416.3	2,416.3	2,417.3	2,417.3	4.3	9.0	-0.52	30.0	-0.3	30.0	16.7	13.26	2.261 CC	
2,500.0	2,500.0	2,501.0	2,501.0	4.4	9.2	-0.52	30.0	-0.3	30.0	16.4	13.63	2.201 ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	4.4	9.6	-174.30	31.5	0.6	33.3	19.3	13.99	2.380	
2,700.0	2,699.8	2,698.3	2,698.1	4.4	9.9	-171.80	36.0	3.0	43.1	28.9	14.27	3.024	
2,750.0	2,749.7	2,747.0	2,746.7	4.4	10.1	-170.57	39.4	4.8	50.5	36.1	14.40	3.509	
2,800.0	2,799.5	2,796.3	2,795.8	4.4	10.2	-169.55	43.2	6.8	58.8	44.2	14.55	4.041	
2,900.0	2,899.1	2,894.9	2,894.0	4.3	10.6	-168.18	50.7	10.8	75.4	60.5	14.86	5.072	
3,000.0	2,998.7	2,993.5	2,992.2	4.3	10.9	-167.31	58.3	14.9	92.0	76.8	15.17	6.061	
3,100.0	3,098.4	3,092.1	3,090.5	4.3	11.2	-166.70	65.9	19.0	108.6	93.1	15.49	7.008	
3,200.0	3,198.0	3,190.7	3,188.7	4.3	11.6	-166.26	73.5	23.0	125.2	109.4	15.82	7.914	
3,300.0	3,297.6	3,289.3	3,286.9	4.2	11.9	-165.92	81.0	27.1	141.8	125.7	16.15	8.782	
3,400.0	3,397.2	3,387.9	3,385.1	4.2	12.3	-165.65	88.6	31.1	158.5	142.0	16.49	9.611	
3,500.0	3,496.8	3,486.5	3,483.4	4.2	12.6	-165.43	96.2	35.2	175.1	158.3	16.83	10.405	
3,600.0	3,596.4	3,585.1	3,581.6	4.2	13.0	-165.25	103.8	39.2	191.7	174.6	17.18	11.164	
3,700.0	3,696.1	3,683.7	3,679.8	4.2	13.3	-165.10	111.3	43.3	208.4	190.9	17.53	11.890	
3,800.0	3,795.7	3,782.3	3,778.1	4.2	13.6	-164.97	118.9	47.4	225.0	207.1	17.88	12.584	
3,900.0	3,895.3	3,880.9	3,876.3	4.3	14.0	-164.86	126.5	51.4	241.7	223.4	18.24	13.248	
4,000.0	3,994.9	3,979.5	3,974.5	4.3	14.3	-164.76	134.1	55.5	258.3	239.7	18.61	13.883	
4,100.0	4,094.5	4,078.1	4,072.7	4.3	14.7	-164.67	141.6	59.5	274.9	256.0	18.97	14.490	
4,200.0	4,194.2	4,176.7	4,171.0	4.3	15.0	-164.60	149.2	63.6	291.6	272.2	19.35	15.071	
4,300.0	4,293.8	4,275.3	4,269.2	4.3	15.4	-164.53	156.8	67.7	308.2	288.5	19.73	15.626	
4,400.0	4,393.4	4,373.9	4,367.4	4.4	15.7	-164.47	164.4	71.7	324.9	304.8	20.11	16.158	
4,500.0	4,493.0	4,472.5	4,465.7	4.4	16.1	-164.42	171.9	75.8	341.5	321.0	20.49	16.666	
4,600.0	4,592.6	4,571.1	4,563.9	4.5	16.4	-164.37	179.5	79.8	358.2	337.3	20.88	17.153	
4,700.0	4,692.3	4,669.7	4,662.1	4.5	16.8	-164.32	187.1	83.9	374.8	353.5	21.27	17.619	
4,800.0	4,791.9	4,768.4	4,760.4	4.6	17.1	-164.28	194.7	87.9	391.5	369.8	21.67	18.064	
4,900.0	4,891.5	4,867.0	4,858.6	4.7	17.5	-164.24	202.2	92.0	408.1	386.0	22.07	18.491	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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						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	
5,000.0	4,991.1	4,965.6	4,956.8	4.7	17.8	-164.21	209.8	96.1	424.7	402.3	22.47	18.900	
5,100.0	5,090.7	5,064.2	5,055.0	4.8	18.2	-164.18	217.4	100.1	441.4	418.5	22.88	19.292	
5,200.0	5,190.4	5,162.8	5,153.3	4.9	18.5	-164.15	225.0	104.2	458.0	434.8	23.29	19.667	
5,300.0	5,290.0	5,261.4	5,251.5	4.9	18.9	-164.12	232.5	108.2	474.7	451.0	23.70	20.026	
5,400.0	5,389.6	5,360.0	5,349.7	5.0	19.2	-164.09	240.1	112.3	491.3	467.2	24.12	20.371	
5,500.0	5,489.2	5,458.6	5,448.0	5.1	19.6	-164.07	247.7	116.4	508.0	483.4	24.54	20.702	
5,600.0	5,588.8	5,557.2	5,546.2	5.1	19.9	-164.04	255.3	120.4	524.6	499.7	24.96	21.019	
5,700.0	5,688.5	5,655.8	5,644.4	5.2	20.3	-164.02	262.8	124.5	541.3	515.9	25.38	21.324	
5,800.0	5,788.1	5,754.4	5,742.6	5.3	20.6	-164.00	270.4	128.5	557.9	532.1	25.81	21.616	
5,900.0	5,887.7	5,853.0	5,840.9	5.4	21.0	-163.98	278.0	132.6	574.6	548.3	26.24	21.897	
6,000.0	5,987.3	5,951.6	5,939.1	5.4	21.3	-163.97	285.6	136.6	591.2	564.5	26.67	22.167	
6,100.0	6,086.9	6,050.2	6,037.3	5.5	21.7	-163.95	293.1	140.7	607.9	580.8	27.10	22.427	
6,200.0	6,186.6	6,148.8	6,135.6	5.6	22.0	-163.93	300.7	144.8	624.5	597.0	27.54	22.676	
6,300.0	6,286.2	6,247.4	6,233.8	5.7	22.4	-163.92	308.3	148.8	641.1	613.2	27.98	22.916	
6,400.0	6,385.8	6,346.0	6,332.0	5.8	22.7	-163.90	315.9	152.9	657.8	629.4	28.42	23.147	
6,500.0	6,485.4	6,444.6	6,430.3	5.8	23.1	-163.89	323.4	156.9	674.4	645.6	28.86	23.369	
6,600.0	6,585.0	6,543.2	6,528.5	5.9	23.5	-163.88	331.0	161.0	691.1	661.8	29.30	23.584	
6,700.0	6,684.7	6,641.8	6,626.7	6.0	23.8	-163.87	338.6	165.1	707.7	678.0	29.75	23.790	
6,800.0	6,784.3	6,740.4	6,724.9	6.1	24.2	-163.85	346.2	169.1	724.4	694.2	30.20	23.989	
6,900.0	6,883.9	6,851.8	6,836.0	6.2	24.6	-163.86	353.9	173.3	740.2	709.6	30.67	24.136	
7,000.0	6,983.5	6,964.9	6,948.9	6.3	25.0	-163.92	359.8	176.4	754.3	723.1	31.14	24.220	
7,100.0	7,083.1	7,078.6	7,062.5	6.4	25.4	-164.03	363.8	178.5	766.4	734.8	31.61	24.244	
7,200.0	7,182.7	7,192.7	7,176.6	6.4	25.8	-164.18	365.8	179.6	776.6	744.6	32.08	24.211	
7,300.0	7,282.4	7,299.5	7,283.4	6.5	26.2	-164.36	366.0	179.7	785.3	752.7	32.53	24.137	
7,400.0	7,382.0	7,399.2	7,383.0	6.6	26.5	-164.53	366.0	179.7	793.7	760.7	32.98	24.064	
7,500.0	7,481.6	7,498.8	7,482.6	6.7	26.9	-164.70	366.0	179.7	802.1	768.6	33.43	23.991	
7,573.4	7,554.7	7,577.5	7,561.3	6.8	27.1	-164.85	366.0	179.4	808.2	774.4	33.77	23.934	
7,575.0	7,556.3	7,579.8	7,563.7	6.8	27.1	-166.89	366.0	179.3	808.3	774.5	33.77	23.934	
7,600.0	7,581.2	7,615.3	7,599.0	6.8	27.3	169.78	366.0	176.4	810.5	776.7	33.86	23.937	
7,625.0	7,605.9	7,650.3	7,633.6	6.8	27.4	157.10	366.0	171.0	813.2	779.3	33.95	23.954	
7,650.0	7,630.5	7,684.9	7,667.3	6.8	27.5	149.54	365.9	163.2	816.4	782.4	34.04	23.985	
7,675.0	7,654.8	7,719.0	7,699.8	6.8	27.6	144.45	365.9	153.1	820.1	786.0	34.13	24.030	
7,700.0	7,678.8	7,752.4	7,730.9	6.8	27.7	140.65	365.9	141.0	824.3	790.1	34.22	24.089	
7,725.0	7,702.4	7,785.1	7,760.5	6.8	27.8	137.58	365.9	127.1	829.1	794.8	34.31	24.161	
7,750.0	7,725.5	7,817.0	7,788.4	6.8	27.9	134.95	365.8	111.6	834.3	799.9	34.41	24.247	
7,775.0	7,748.2	7,848.2	7,814.7	6.9	28.0	132.58	365.8	94.6	840.1	805.6	34.51	24.346	
7,800.0	7,770.2	7,878.7	7,839.1	6.9	28.1	130.38	365.7	76.5	846.4	811.8	34.61	24.457	
7,825.0	7,791.7	7,908.4	7,861.8	6.9	28.2	128.29	365.7	57.3	853.2	818.5	34.71	24.581	
7,850.0	7,812.4	7,937.3	7,882.7	7.0	28.2	126.25	365.6	37.4	860.5	825.7	34.82	24.716	
7,875.0	7,832.4	7,965.6	7,901.9	7.0	28.3	124.26	365.6	16.7	868.3	833.4	34.92	24.862	
7,900.0	7,851.5	7,993.1	7,919.5	7.0	28.4	122.28	365.5	-4.6	876.6	841.6	35.04	25.019	
7,925.0	7,869.9	8,020.0	7,935.4	7.1	28.4	120.31	365.5	-26.2	885.3	850.2	35.15	25.185	
7,950.0	7,887.3	8,046.2	7,949.7	7.1	28.5	118.33	365.4	-48.2	894.5	859.3	35.27	25.360	
7,975.0	7,903.7	8,071.9	7,962.5	7.2	28.6	116.34	365.4	-70.5	904.1	868.8	35.40	25.543	
8,000.0	7,919.2	8,097.0	7,973.9	7.2	28.6	114.35	365.3	-92.9	914.1	878.6	35.52	25.733	
8,025.0	7,933.6	8,121.6	7,983.9	7.3	28.7	112.34	365.3	-115.4	924.5	888.9	35.65	25.930	
8,050.0	7,946.9	8,145.8	7,992.5	7.3	28.7	110.32	365.2	-137.9	935.2	899.4	35.79	26.132	
8,075.0	7,959.1	8,169.6	7,999.9	7.4	28.8	108.29	365.2	-160.5	946.2	910.2	35.92	26.339	
8,100.0	7,970.1	8,193.0	8,006.1	7.4	28.8	106.25	365.1	-183.1	957.4	921.3	36.06	26.549	
8,125.0	7,980.0	8,216.1	8,011.1	7.5	28.9	104.22	365.0	-205.6	968.9	932.7	36.20	26.763	
8,150.0	7,988.6	8,238.9	8,015.0	7.6	28.9	102.19	365.0	-228.1	980.5	944.2	36.34	26.979	
8,175.0	7,996.0	8,261.4	8,017.7	7.7	28.9	100.17	364.9	-250.5	992.3	955.8	36.49	27.196	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #501H - 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	
8,200.0	8,002.2	8,283.7	8,019.4	7.8	29.0	98.17	364.9	-272.7	1,004.2	967.6	36.63	27.413	
8,225.0	8,007.0	8,305.9	8,020.1	7.9	29.0	96.20	364.8	-294.8	1,016.2	979.4	36.78	27.630	
8,250.0	8,010.6	8,327.6	8,019.9	8.1	29.1	94.27	364.8	-316.6	1,028.2	991.3	36.93	27.844	
8,275.0	8,012.9	8,349.4	8,019.7	8.2	29.1	92.44	364.7	-338.3	1,040.3	1,003.2	37.08	28.056	
8,300.0	8,013.9	8,371.3	8,019.6	8.3	29.1	90.72	364.7	-360.2	1,052.3	1,015.0	37.23	28.265	
8,310.6	8,014.0	8,380.6	8,019.5	8.4	29.1	90.02	364.6	-369.6	1,057.3	1,020.0	37.29	28.354	
8,400.0	8,013.2	8,459.8	8,018.8	8.9	29.3	90.03	364.5	-448.8	1,098.7	1,060.8	37.89	28.997	
8,500.0	8,012.4	8,549.9	8,018.1	9.6	29.5	90.04	364.2	-538.9	1,142.1	1,103.4	38.67	29.534	
8,600.0	8,011.6	8,641.5	8,017.3	10.4	29.8	90.05	364.0	-630.5	1,182.2	1,142.7	39.56	29.884	
8,700.0	8,010.7	8,734.4	8,016.6	11.2	30.1	90.06	363.8	-723.4	1,219.2	1,178.7	40.56	30.063	
8,800.0	8,009.9	8,828.6	8,015.8	12.0	30.4	90.07	363.6	-817.5	1,252.9	1,211.3	41.64	30.086	
8,900.0	8,009.1	8,923.8	8,015.0	12.9	30.8	90.08	363.3	-912.8	1,283.3	1,240.5	42.82	29.969	
9,000.0	8,008.2	9,020.1	8,014.2	13.8	31.2	90.10	363.1	-1,009.0	1,310.3	1,266.3	44.08	29.729	
9,100.0	8,007.4	9,117.3	8,013.4	14.8	31.6	90.11	362.8	-1,106.2	1,334.0	1,288.6	45.40	29.381	
9,200.0	8,006.5	9,215.2	8,012.6	15.7	32.1	90.13	362.6	-1,204.1	1,354.3	1,307.5	46.80	28.940	
9,300.0	8,005.7	9,313.7	8,011.7	16.7	32.6	90.14	362.4	-1,302.7	1,371.1	1,322.8	48.25	28.417	
9,400.0	8,004.8	9,412.8	8,010.9	17.6	33.1	90.16	362.1	-1,401.8	1,384.5	1,334.7	49.76	27.825	
9,500.0	8,004.0	9,512.3	8,010.1	18.6	33.7	90.17	361.9	-1,501.3	1,394.4	1,343.1	51.31	27.175	
9,600.0	8,003.2	9,612.1	8,009.3	19.6	34.3	90.19	361.6	-1,601.0	1,400.8	1,347.9	52.91	26.476	
9,700.0	8,002.3	9,712.1	8,008.4	20.6	34.9	90.20	361.4	-1,701.0	1,403.8	1,349.2	54.55	25.735	
9,734.5	8,002.1	9,746.6	8,008.2	20.9	35.1	90.21	361.3	-1,735.5	1,404.0	1,348.9	55.12	25.472	
9,800.0	8,001.5	9,812.1	8,007.6	21.5	35.5	90.21	361.1	-1,801.0	1,404.0	1,347.8	56.21	24.976	
9,900.0	8,000.7	9,912.1	8,006.8	22.5	36.2	90.21	360.9	-1,901.0	1,404.0	1,346.1	57.91	24.242	
10,000.0	7,999.9	10,012.1	8,006.0	23.5	36.9	90.21	360.7	-2,001.0	1,404.0	1,344.3	59.65	23.539	
10,100.0	7,999.1	10,112.1	8,005.1	24.6	37.6	90.21	360.4	-2,101.0	1,404.0	1,342.6	61.40	22.865	
10,200.0	7,998.2	10,212.1	8,004.3	25.6	38.3	90.21	360.2	-2,201.0	1,404.0	1,340.8	63.19	22.220	
10,300.0	7,997.4	10,312.1	8,003.5	26.6	39.1	90.21	359.9	-2,301.0	1,404.0	1,339.0	64.99	21.602	
10,400.0	7,996.6	10,412.1	8,002.6	27.6	39.8	90.21	359.7	-2,401.0	1,404.0	1,337.2	66.82	21.011	
10,500.0	7,995.8	10,512.1	8,001.8	28.7	40.6	90.21	359.4	-2,501.0	1,404.0	1,335.3	68.67	20.445	
10,600.0	7,995.0	10,612.1	8,001.0	29.7	41.4	90.21	359.2	-2,601.0	1,404.0	1,333.4	70.54	19.904	
10,700.0	7,994.1	10,712.1	8,000.1	30.8	42.2	90.20	358.9	-2,701.0	1,404.0	1,331.6	72.42	19.385	
10,800.0	7,993.3	10,812.1	7,999.3	31.8	43.0	90.20	358.7	-2,800.9	1,404.0	1,329.7	74.33	18.889	
10,900.0	7,992.5	10,912.1	7,998.5	32.9	43.9	90.20	358.5	-2,900.9	1,404.0	1,327.7	76.24	18.414	
11,000.0	7,991.7	11,012.1	7,997.7	34.0	44.7	90.20	358.2	-3,000.9	1,404.0	1,325.8	78.18	17.959	
11,100.0	7,990.8	11,112.1	7,996.8	35.0	45.6	90.20	358.0	-3,100.9	1,404.0	1,323.9	80.12	17.523	
11,200.0	7,990.0	11,212.1	7,996.0	36.1	46.5	90.20	357.7	-3,200.9	1,404.0	1,321.9	82.08	17.105	
11,300.0	7,989.2	11,312.1	7,995.2	37.2	47.3	90.20	357.5	-3,300.9	1,404.0	1,319.9	84.05	16.704	
11,400.0	7,988.4	11,412.1	7,994.3	38.3	48.2	90.20	357.2	-3,400.9	1,404.0	1,317.9	86.03	16.319	
11,484.5	7,987.7	11,496.6	7,993.6	39.2	49.0	90.20	357.0	-3,485.5	1,404.0	1,316.3	87.72	16.006	
11,484.6	7,987.7	11,496.6	7,993.6	39.2	49.0	90.20	357.0	-3,485.5	1,404.0	1,316.3	87.72	16.006	
11,500.0	7,987.6	11,512.1	7,993.5	39.3	49.1	90.20	357.0	-3,500.9	1,404.0	1,316.0	88.02	15.950	
11,600.0	7,986.7	11,612.0	7,992.7	40.4	50.0	90.18	356.7	-3,600.9	1,406.3	1,316.3	90.03	15.621	
11,700.0	7,985.9	11,711.9	7,991.9	41.5	51.0	90.17	356.5	-3,700.7	1,412.1	1,320.0	92.04	15.343	
11,742.8	7,985.6	11,754.5	7,991.5	42.0	51.4	90.16	356.4	-3,743.4	1,415.6	1,322.7	92.90	15.239	
11,800.0	7,985.1	11,811.5	7,991.0	42.6	51.9	90.16	356.3	-3,800.3	1,420.8	1,326.7	94.05	15.107	
11,900.0	7,984.3	11,911.1	7,990.2	43.7	52.8	90.15	356.0	-3,899.9	1,429.8	1,333.7	96.07	14.883	
12,000.0	7,983.5	12,010.7	7,989.4	44.8	53.7	90.15	355.8	-3,999.5	1,438.8	1,340.7	98.09	14.667	
12,100.0	7,982.7	12,110.3	7,988.6	45.9	54.7	90.15	355.5	-4,099.1	1,447.8	1,347.6	100.13	14.459	
12,134.7	7,982.4	12,144.8	7,988.3	46.3	55.0	90.15	355.4	-4,133.6	1,450.9	1,350.1	100.84	14.389	
12,200.0	7,981.9	12,209.9	7,987.7	47.0	55.6	90.16	355.3	-4,198.8	1,456.0	1,353.9	102.17	14.251	
12,300.0	7,981.1	12,309.8	7,986.9	48.1	56.6	90.17	355.0	-4,298.6	1,461.0	1,356.8	104.23	14.018	
12,400.0	7,980.2	12,409.8	7,986.1	49.2	57.6	90.19	354.8	-4,398.6	1,462.5	1,356.2	106.29	13.760	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #501H - 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		
12,500.0	7,979.4	12,509.8	7,985.2	50.3	58.5	90.21	354.5	-4,498.6	1,460.5	1,352.2	108.36	13.479		
12,587.4	7,978.7	12,597.1	7,984.5	51.2	59.4	90.22	354.3	-4,585.9	1,455.9	1,345.8	110.17	13.215		
12,600.0	7,978.6	12,609.6	7,984.4	51.3	59.5	90.22	354.3	-4,598.4	1,455.1	1,344.6	110.43	13.176		
12,700.0	7,977.8	12,709.4	7,983.6	52.4	60.5	90.22	354.1	-4,698.2	1,448.3	1,335.8	112.50	12.873		
12,800.0	7,977.0	12,809.1	7,982.8	53.5	61.5	90.22	353.8	-4,797.9	1,441.5	1,326.9	114.58	12.580		
12,900.0	7,976.1	12,908.9	7,981.9	54.6	62.4	90.22	353.6	-4,897.7	1,434.7	1,318.0	116.67	12.297		
13,000.0	7,975.3	13,008.7	7,981.1	55.7	63.4	90.22	353.3	-4,997.5	1,427.9	1,309.2	118.76	12.024		
13,100.0	7,974.5	13,108.5	7,980.3	56.8	64.4	90.23	353.1	-5,097.2	1,421.1	1,300.3	120.85	11.759		
13,200.0	7,973.7	13,208.2	7,979.4	57.8	65.4	90.23	352.8	-5,197.0	1,414.4	1,291.4	122.95	11.504		
13,300.0	7,972.8	13,308.0	7,978.6	58.9	66.4	90.23	352.6	-5,296.8	1,407.6	1,282.5	125.05	11.256		
13,387.4	7,972.1	13,395.2	7,977.9	59.9	67.3	90.23	352.4	-5,384.0	1,401.6	1,274.8	126.89	11.046		
13,400.0	7,972.0	13,407.8	7,977.8	60.0	67.4	90.22	352.4	-5,396.5	1,400.8	1,273.7	127.16	11.016		
13,500.0	7,971.2	13,507.7	7,977.0	61.1	68.4	90.21	352.1	-5,496.4	1,396.2	1,266.9	129.27	10.801		
13,581.9	7,970.5	13,589.6	7,976.3	62.0	69.3	90.20	351.9	-5,578.3	1,395.0	1,264.0	131.01	10.648		
13,585.2	7,970.5	13,592.8	7,976.3	62.0	69.3	90.19	351.9	-5,581.6	1,395.0	1,264.0	131.08	10.643		
13,600.0	7,970.4	13,607.6	7,976.1	62.2	69.5	90.20	351.9	-5,596.4	1,395.1	1,263.7	131.39	10.617		
13,700.0	7,969.5	13,707.6	7,975.3	63.3	70.5	90.20	351.6	-5,696.4	1,395.2	1,261.7	133.52	10.449		
13,800.0	7,968.7	13,807.6	7,974.5	64.4	71.5	90.20	351.4	-5,796.4	1,395.3	1,259.6	135.65	10.286		
13,900.0	7,967.9	13,907.6	7,973.6	65.5	72.5	90.20	351.1	-5,896.4	1,395.4	1,257.6	137.78	10.128		
14,000.0	7,967.0	14,007.6	7,972.8	66.6	73.5	90.20	350.9	-5,996.4	1,395.5	1,255.6	139.91	9.974		
14,100.0	7,966.2	14,107.6	7,972.0	67.7	74.6	90.20	350.6	-6,096.4	1,395.6	1,253.6	142.05	9.825		
14,200.0	7,965.3	14,207.6	7,971.2	68.8	75.6	90.20	350.4	-6,196.4	1,395.7	1,251.6	144.19	9.680		
14,300.0	7,964.5	14,307.6	7,970.3	69.9	76.6	90.20	350.2	-6,296.4	1,395.9	1,249.5	146.33	9.539		
14,400.0	7,963.7	14,407.6	7,969.5	71.0	77.7	90.20	349.9	-6,396.4	1,396.0	1,247.5	148.47	9.402		
14,500.0	7,962.8	14,507.6	7,968.7	72.1	78.7	90.20	349.7	-6,496.4	1,396.1	1,245.5	150.62	9.269		
14,600.0	7,962.0	14,607.6	7,967.8	73.3	79.8	90.20	349.4	-6,596.4	1,396.2	1,243.4	152.77	9.139		
14,700.0	7,961.2	14,707.6	7,967.0	74.4	80.8	90.20	349.2	-6,696.4	1,396.3	1,241.4	154.92	9.013		
14,800.0	7,960.3	14,807.6	7,966.2	75.5	81.8	90.20	348.9	-6,796.4	1,396.4	1,239.3	157.07	8.890		
14,900.0	7,959.5	14,907.6	7,965.3	76.6	82.9	90.20	348.7	-6,896.4	1,396.5	1,237.3	159.23	8.771		
15,000.0	7,958.6	15,007.6	7,964.5	77.7	83.9	90.20	348.4	-6,996.4	1,396.6	1,235.3	161.39	8.654		
15,100.0	7,957.8	15,107.6	7,963.7	78.8	85.0	90.20	348.2	-7,096.4	1,396.8	1,233.2	163.55	8.540		
15,200.0	7,957.0	15,207.6	7,962.9	79.9	86.0	90.20	348.0	-7,196.4	1,396.9	1,231.2	165.71	8.430		
15,300.0	7,956.1	15,307.6	7,962.0	81.0	87.1	90.20	347.7	-7,296.3	1,397.0	1,229.1	167.87	8.322		
15,400.0	7,955.3	15,407.6	7,961.2	82.1	88.1	90.20	347.5	-7,396.3	1,397.1	1,227.1	170.04	8.216		
15,500.0	7,954.5	15,507.6	7,960.4	83.2	89.2	90.20	347.2	-7,496.3	1,397.2	1,225.0	172.20	8.114		
15,600.0	7,953.6	15,607.6	7,959.5	84.3	90.3	90.20	347.0	-7,596.3	1,397.3	1,223.0	174.37	8.013		
15,700.0	7,952.8	15,707.6	7,958.7	85.4	91.3	90.20	346.7	-7,696.3	1,397.4	1,220.9	176.54	7.916		
15,800.0	7,951.9	15,807.6	7,957.9	86.5	92.4	90.20	346.5	-7,796.3	1,397.5	1,218.8	178.71	7.820		
15,900.0	7,951.1	15,907.6	7,957.1	87.7	93.4	90.20	346.2	-7,896.3	1,397.7	1,216.8	180.88	7.727		
16,000.0	7,950.3	16,007.6	7,956.2	88.8	94.5	90.20	346.0	-7,996.3	1,397.8	1,214.7	183.06	7.636		
16,100.0	7,949.4	16,107.6	7,955.4	89.9	95.6	90.20	345.7	-8,096.3	1,397.9	1,212.7	185.23	7.547		
16,200.0	7,948.6	16,207.6	7,954.6	91.0	96.6	90.20	345.5	-8,196.3	1,398.0	1,210.6	187.41	7.460		
16,300.0	7,947.7	16,307.6	7,953.7	92.1	97.7	90.20	345.3	-8,296.3	1,398.1	1,208.5	189.59	7.374		
16,400.0	7,946.9	16,407.6	7,952.9	93.2	98.8	90.20	345.0	-8,396.3	1,398.2	1,206.5	191.77	7.291		
16,500.0	7,946.1	16,507.6	7,952.1	94.3	99.8	90.20	344.8	-8,496.3	1,398.3	1,204.4	193.95	7.210		
16,600.0	7,945.2	16,607.6	7,951.2	95.4	100.9	90.20	344.5	-8,596.3	1,398.4	1,202.3	196.13	7.130		
16,700.0	7,944.4	16,707.6	7,950.4	96.5	102.0	90.21	344.3	-8,696.3	1,398.6	1,200.3	198.31	7.052		
16,800.0	7,943.6	16,807.6	7,949.6	97.6	103.0	90.21	344.0	-8,796.3	1,398.7	1,198.2	200.49	6.976		
16,900.0	7,942.7	16,907.6	7,948.8	98.8	104.1	90.21	343.8	-8,896.3	1,398.8	1,196.1	202.68	6.902		
17,000.0	7,941.9	17,007.6	7,947.9	99.9	105.2	90.21	343.5	-8,996.3	1,398.9	1,194.0	204.86	6.828		
17,100.0	7,941.0	17,107.6	7,947.1	101.0	106.3	90.21	343.3	-9,096.3	1,399.0	1,192.0	207.05	6.757		
17,200.0	7,940.2	17,207.6	7,946.3	102.1	107.3	90.21	343.1	-9,196.3	1,399.1	1,189.9	209.24	6.687		

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 #501H - 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	
17,300.0	7,939.4	17,307.6	7,945.4	103.2	108.4	90.21	342.8	-9,296.3	1,399.2	1,187.8	211.43	6.618	
17,400.0	7,938.5	17,407.6	7,944.6	104.3	109.5	90.21	342.6	-9,396.3	1,399.4	1,185.7	213.61	6.551	
17,500.0	7,937.7	17,507.6	7,943.8	105.4	110.6	90.21	342.3	-9,496.3	1,399.5	1,183.7	215.80	6.485	
17,600.0	7,936.9	17,607.6	7,943.0	106.5	111.6	90.21	342.1	-9,596.3	1,399.6	1,181.6	218.00	6.420	
17,700.0	7,936.0	17,707.6	7,942.1	107.6	112.7	90.21	341.8	-9,696.3	1,399.7	1,179.5	220.19	6.357	
17,800.0	7,935.2	17,807.6	7,941.3	108.8	113.8	90.21	341.6	-9,796.3	1,399.8	1,177.4	222.38	6.295	
17,866.6	7,934.6	17,874.2	7,940.7	109.5	114.5	90.21	341.4	-9,862.8	1,399.9	1,176.0	223.84	6.254	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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
0.0	0.0	17,078.0	8,069.2	4.2	72.0	99.11	-96.2	599.8	8,103.0				
100.0	100.0	17,078.0	8,069.2	4.2	72.0	99.11	-96.2	599.8	8,003.3	7,928.1	75.16	106.490	
200.0	200.0	17,078.0	8,069.2	4.2	72.0	99.11	-96.2	599.8	7,903.5	7,828.3	75.21	105.090	
300.0	300.0	17,078.0	8,069.2	4.3	72.0	99.11	-96.2	599.8	7,803.8	7,728.6	75.28	103.663	
400.0	400.0	17,078.0	8,069.2	4.3	72.0	99.11	-96.2	599.8	7,704.2	7,628.8	75.37	102.222	
500.0	500.0	17,078.0	8,069.2	4.3	72.0	99.11	-96.2	599.8	7,604.5	7,529.0	75.46	100.775	
600.0	600.0	17,078.0	8,069.2	4.3	72.0	99.11	-96.2	599.8	7,504.8	7,429.2	75.56	99.324	
700.0	700.0	17,078.0	8,069.2	4.3	72.0	99.11	-96.2	599.8	7,405.1	7,329.5	75.66	97.874	
800.0	800.0	17,078.0	8,069.2	4.4	72.0	99.11	-96.2	599.8	7,305.5	7,229.7	75.76	96.424	
900.0	900.0	17,078.0	8,069.2	4.4	72.0	99.11	-96.2	599.8	7,205.8	7,129.9	75.87	94.976	
1,000.0	1,000.0	17,078.0	8,069.2	4.4	72.0	99.11	-96.2	599.8	7,106.2	7,030.2	75.98	93.530	
1,100.0	1,100.0	17,078.0	8,069.2	4.5	72.0	99.11	-96.2	599.8	7,006.5	6,930.5	76.09	92.087	
1,200.0	1,200.0	17,078.0	8,069.2	4.5	72.0	99.11	-96.2	599.8	6,906.9	6,830.7	76.20	90.647	
1,300.0	1,300.0	17,078.0	8,069.2	4.5	72.0	99.11	-96.2	599.8	6,807.3	6,731.0	76.31	89.210	
1,400.0	1,400.0	17,078.0	8,069.2	4.6	72.0	99.11	-96.2	599.8	6,707.7	6,631.3	76.42	87.776	
1,500.0	1,500.0	17,078.0	8,069.2	4.6	72.0	99.11	-96.2	599.8	6,608.1	6,531.6	76.53	86.345	
1,600.0	1,600.0	17,078.0	8,069.2	4.7	72.0	99.11	-96.2	599.8	6,508.6	6,431.9	76.65	84.918	
1,700.0	1,700.0	17,078.0	8,069.2	4.8	72.0	99.11	-96.2	599.8	6,409.0	6,332.3	76.76	83.494	
1,800.0	1,800.0	17,078.0	8,069.2	4.8	72.0	99.11	-96.2	599.8	6,309.5	6,232.6	76.88	82.073	
1,900.0	1,900.0	17,078.0	8,069.2	4.9	72.0	99.11	-96.2	599.8	6,209.9	6,133.0	76.99	80.655	
2,000.0	2,000.0	17,078.0	8,069.2	5.0	72.0	99.11	-96.2	599.8	6,110.4	6,033.3	77.11	79.241	
2,100.0	2,100.0	17,078.0	8,069.2	5.0	72.0	99.11	-96.2	599.8	6,010.9	5,933.7	77.23	77.830	
2,200.0	2,200.0	17,078.0	8,069.2	5.1	72.0	99.11	-96.2	599.8	5,911.5	5,834.1	77.35	76.423	
2,300.0	2,300.0	17,078.0	8,069.2	5.2	72.0	99.11	-96.2	599.8	5,812.0	5,734.5	77.47	75.019	
2,400.0	2,400.0	17,078.0	8,069.2	5.2	72.0	99.11	-96.2	599.8	5,712.6	5,635.0	77.60	73.619	
2,500.0	2,500.0	17,111.1	8,069.2	5.3	72.2	96.00	-63.1	600.4	5,612.8	5,534.8	77.98	71.975	
2,600.0	2,600.0	17,110.9	8,069.2	5.3	72.2	-97.47	-63.3	600.4	5,513.4	5,435.3	78.11	70.587	
2,700.0	2,699.8	17,078.0	8,069.2	5.3	72.0	-111.71	-96.2	599.8	5,414.3	5,336.4	77.97	69.438	
2,750.0	2,749.7	17,078.0	8,069.2	5.3	72.0	-119.10	-96.2	599.8	5,364.7	5,286.7	78.04	68.744	
2,800.0	2,799.5	17,078.0	8,069.2	5.3	72.0	-119.10	-96.2	599.8	5,315.1	5,237.0	78.10	68.052	
2,900.0	2,899.1	17,078.0	8,069.2	5.3	72.0	-119.10	-96.2	599.8	5,215.9	5,137.7	78.23	66.670	
3,000.0	2,998.7	17,078.0	8,069.2	5.2	72.0	-119.10	-96.2	599.8	5,116.8	5,038.4	78.37	65.293	
3,100.0	3,098.4	17,078.0	8,069.2	5.2	72.0	-119.10	-96.2	599.8	5,017.7	4,939.2	78.50	63.919	
3,200.0	3,198.0	17,078.0	8,069.2	5.2	72.0	-119.10	-96.2	599.8	4,918.6	4,840.0	78.64	62.549	
3,300.0	3,297.6	17,078.0	8,069.2	5.2	72.0	-119.10	-96.2	599.8	4,819.5	4,740.8	78.77	61.184	
3,400.0	3,397.2	17,077.0	8,069.2	5.2	72.0	-119.03	-97.2	599.8	4,720.6	4,641.7	78.90	59.828	
3,500.0	3,496.8	17,068.8	8,069.1	5.2	71.9	-118.45	-105.4	599.6	4,621.6	4,542.6	78.98	58.518	
3,600.0	3,596.4	17,060.5	8,069.1	5.2	71.8	-117.87	-113.7	599.5	4,522.7	4,443.6	79.06	57.209	
3,700.0	3,696.1	17,052.3	8,069.1	5.2	71.8	-117.28	-121.9	599.4	4,423.8	4,344.6	79.13	55.902	
3,800.0	3,795.7	17,092.3	8,069.1	5.2	72.1	-120.08	-81.9	600.1	4,325.0	4,245.4	79.58	54.348	
3,900.0	3,895.3	17,051.9	8,069.2	5.2	71.8	-117.25	-122.3	599.3	4,226.3	4,146.8	79.42	53.215	
4,000.0	3,994.9	17,017.7	8,069.1	5.2	71.5	-114.71	-156.5	598.7	4,127.5	4,048.2	79.30	52.047	
4,100.0	4,094.5	16,988.5	8,068.8	5.2	71.3	-112.41	-185.7	598.4	4,028.7	3,949.5	79.22	50.852	
4,200.0	4,194.2	16,976.5	8,068.6	5.3	71.2	-111.44	-197.7	598.3	3,929.9	3,850.7	79.28	49.570	
4,300.0	4,293.8	16,967.6	8,068.5	5.3	71.1	-110.70	-206.6	598.2	3,831.2	3,751.9	79.36	48.275	
4,400.0	4,393.4	16,958.8	8,068.4	5.3	71.1	-109.97	-215.4	598.1	3,732.6	3,653.1	79.45	46.982	
4,500.0	4,493.0	16,950.1	8,068.3	5.3	71.0	-109.23	-224.1	598.0	3,633.9	3,554.4	79.53	45.692	
4,600.0	4,592.6	16,941.5	8,068.1	5.4	70.9	-108.50	-232.7	597.9	3,535.4	3,455.8	79.62	44.404	
4,700.0	4,692.3	16,932.9	8,068.0	5.4	70.9	-107.76	-241.3	597.8	3,436.9	3,357.2	79.71	43.118	
4,800.0	4,791.9	16,924.5	8,067.8	5.5	70.8	-107.02	-249.7	597.7	3,338.5	3,258.7	79.80	41.836	
4,900.0	4,891.5	16,916.2	8,067.7	5.5	70.7	-106.29	-258.0	597.6	3,240.2	3,160.3	79.89	40.557	
5,000.0	4,991.1	16,907.9	8,067.6	5.6	70.7	-105.55	-266.3	597.5	3,141.9	3,061.9	79.99	39.281	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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
5,100.0	5,090.7	16,899.8	8,067.4	5.6	70.6	-104.82	-274.4	597.4	3,043.8	2,963.7	80.08	38.008	
5,200.0	5,190.4	16,891.7	8,067.3	5.7	70.6	-104.08	-282.5	597.3	2,945.7	2,865.6	80.18	36.740	
5,300.0	5,290.0	16,884.6	8,067.2	5.8	70.5	-103.43	-289.6	597.2	2,847.8	2,767.5	80.28	35.472	
5,400.0	5,389.6	16,877.9	8,067.0	5.8	70.5	-102.81	-296.3	597.2	2,750.0	2,669.6	80.39	34.209	
5,500.0	5,489.2	16,871.2	8,066.9	5.9	70.4	-102.18	-303.0	597.1	2,652.4	2,571.9	80.49	32.951	
5,600.0	5,588.8	16,864.5	8,066.8	5.9	70.4	-101.55	-309.7	597.0	2,554.9	2,474.3	80.60	31.698	
5,700.0	5,688.5	16,857.8	8,066.7	6.0	70.3	-100.92	-316.4	596.9	2,457.6	2,376.9	80.70	30.452	
5,800.0	5,788.1	16,851.1	8,066.5	6.1	70.3	-100.28	-323.1	596.9	2,360.5	2,279.7	80.81	29.212	
5,900.0	5,887.7	16,844.4	8,066.4	6.1	70.2	-99.64	-329.7	596.8	2,263.6	2,182.7	80.91	27.978	
6,000.0	5,987.3	16,837.7	8,066.3	6.2	70.2	-99.00	-336.4	596.7	2,167.0	2,086.0	81.00	26.752	
6,100.0	6,086.9	16,831.0	8,066.2	6.3	70.1	-98.35	-343.1	596.7	2,070.8	1,989.7	81.10	25.534	
6,200.0	6,186.6	16,824.3	8,066.1	6.3	70.1	-97.70	-349.8	596.6	1,974.8	1,893.6	81.18	24.325	
6,300.0	6,286.2	16,817.6	8,065.9	6.4	70.0	-97.04	-356.5	596.6	1,879.3	1,798.0	81.27	23.125	
6,400.0	6,385.8	16,810.9	8,065.8	6.5	70.0	-96.38	-363.2	596.5	1,784.2	1,702.8	81.34	21.935	
6,500.0	6,485.4	16,804.3	8,065.7	6.6	69.9	-95.72	-369.9	596.5	1,689.6	1,608.2	81.40	20.757	
6,600.0	6,585.0	16,797.6	8,065.6	6.6	69.9	-95.05	-376.6	596.4	1,595.7	1,514.3	81.45	19.592	
6,700.0	6,684.7	16,796.0	8,065.5	6.7	69.8	-94.90	-378.2	596.4	1,502.6	1,421.0	81.52	18.431	
6,800.0	6,784.3	16,796.0	8,065.5	6.8	69.8	-94.90	-378.2	596.4	1,410.3	1,328.8	81.59	17.285	
6,900.0	6,883.9	16,796.0	8,065.5	6.9	69.8	-94.90	-378.2	596.4	1,319.3	1,237.6	81.63	16.161	
7,000.0	6,983.5	16,779.2	8,065.3	6.9	69.7	-93.21	-395.0	596.3	1,229.4	1,147.9	81.49	15.086	
7,100.0	7,083.1	16,774.0	8,065.3	7.0	69.7	-92.69	-400.1	596.2	1,141.3	1,059.9	81.41	14.019	
7,200.0	7,182.7	16,768.5	8,065.2	7.1	69.6	-92.13	-405.6	596.2	1,055.3	974.0	81.26	12.986	
7,300.0	7,282.4	16,762.6	8,065.2	7.2	69.6	-91.53	-411.6	596.1	971.9	890.8	81.04	11.992	
7,400.0	7,382.0	16,756.3	8,065.2	7.3	69.5	-90.89	-417.9	596.1	891.8	811.1	80.73	11.047	
7,500.0	7,481.6	16,749.4	8,065.2	7.4	69.5	-90.19	-424.7	596.0	816.1	735.8	80.30	10.164	
7,573.4	7,554.7	16,744.1	8,065.3	7.4	69.5	-89.64	-430.1	596.0	764.1	684.1	80.01	9.549	
7,575.0	7,556.3	16,744.0	8,065.3	7.4	69.5	-91.72	-430.2	596.0	763.0	683.0	80.00	9.537	
7,600.0	7,581.2	16,741.8	8,065.3	7.4	69.4	-115.46	-432.4	596.0	746.6	666.8	79.82	9.353	
7,625.0	7,605.9	16,739.0	8,065.3	7.4	69.4	-128.22	-435.1	595.9	731.7	652.0	79.61	9.190	
7,650.0	7,630.5	16,735.8	8,065.3	7.4	69.4	-135.55	-438.4	595.9	718.3	638.9	79.38	9.048	
7,675.0	7,654.8	16,731.9	8,065.4	7.4	69.4	-140.13	-442.3	595.9	706.6	627.4	79.14	8.928	
7,700.0	7,678.8	16,727.5	8,065.5	7.4	69.3	-143.16	-446.7	595.9	696.6	617.8	78.88	8.832	
7,725.0	7,702.4	16,722.5	8,065.5	7.4	69.3	-145.21	-451.7	595.8	688.6	610.0	78.61	8.759	
7,750.0	7,725.5	16,716.9	8,065.7	7.5	69.2	-146.59	-457.3	595.8	682.5	604.1	78.34	8.712	
7,775.0	7,748.2	16,710.7	8,065.8	7.5	69.2	-147.49	-463.4	595.7	678.4	600.3	78.07	8.689 SF	
7,800.0	7,770.2	16,701.0	8,066.0	7.5	69.1	-147.76	-473.1	595.6	676.4	598.6	77.78	8.695	
7,812.7	7,781.2	16,700.3	8,066.1	7.5	69.1	-148.13	-473.8	595.6	676.1	598.4	77.68	8.703 CC, ES	
7,825.0	7,791.7	16,696.0	8,066.2	7.5	69.1	-148.13	-478.2	595.6	676.3	598.8	77.55	8.721	
7,850.0	7,812.4	16,687.0	8,066.4	7.6	69.0	-147.96	-487.2	595.5	678.3	601.0	77.31	8.775	
7,875.0	7,832.4	16,677.6	8,066.7	7.6	69.0	-147.54	-496.6	595.5	682.3	605.2	77.08	8.852	
7,900.0	7,851.5	16,667.8	8,066.9	7.6	68.9	-146.90	-506.3	595.4	688.2	611.3	76.88	8.951	
7,925.0	7,869.9	16,657.8	8,067.1	7.7	68.8	-146.05	-516.3	595.4	695.9	619.2	76.70	9.072	
7,950.0	7,887.3	16,647.5	8,067.2	7.7	68.7	-144.98	-526.6	595.3	705.3	628.8	76.55	9.214	
7,975.0	7,903.7	16,637.0	8,067.4	7.8	68.6	-143.69	-537.2	595.3	716.4	640.0	76.43	9.374	
8,000.0	7,919.2	16,626.2	8,067.5	7.8	68.6	-142.16	-547.9	595.2	729.0	652.7	76.32	9.552	
8,025.0	7,933.6	16,615.2	8,067.6	7.9	68.5	-140.39	-558.9	595.2	743.0	666.7	76.23	9.746	
8,050.0	7,946.9	16,604.0	8,067.7	7.9	68.4	-138.35	-570.1	595.1	758.2	682.1	76.16	9.955	
8,075.0	7,959.1	16,592.4	8,067.8	8.0	68.3	-136.00	-581.7	595.1	774.6	698.5	76.10	10.178	
8,100.0	7,970.1	16,580.7	8,067.8	8.0	68.2	-133.34	-593.5	595.1	792.0	715.9	76.05	10.414	
8,125.0	7,980.0	16,568.8	8,067.7	8.1	68.1	-130.34	-605.3	595.1	810.3	734.3	76.01	10.661	
8,150.0	7,988.6	16,556.9	8,067.7	8.2	68.0	-126.99	-617.2	595.0	829.4	753.4	75.97	10.917	
8,175.0	7,996.0	16,544.9	8,067.6	8.3	68.0	-123.26	-629.2	595.0	849.1	773.2	75.93	11.183	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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						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	
8,200.0	8,002.2	16,532.9	8,067.4	8.4	67.9	-119.15	-641.2	595.0	869.5	793.6	75.90	11.456	
8,225.0	8,007.0	16,520.8	8,067.3	8.5	67.8	-114.66	-653.3	595.0	890.3	814.4	75.86	11.736	
8,250.0	8,010.6	16,508.8	8,067.0	8.6	67.7	-109.82	-665.3	595.0	911.5	835.7	75.82	12.021	
8,275.0	8,012.9	16,496.8	8,066.8	8.7	67.6	-104.68	-677.3	595.0	933.0	857.2	75.78	12.312	
8,300.0	8,013.9	16,484.8	8,066.6	8.9	67.5	-99.30	-689.3	595.0	954.7	879.0	75.74	12.606	
8,310.6	8,014.0	16,479.8	8,066.5	8.9	67.5	-96.98	-694.4	595.0	964.0	888.3	75.72	12.731	
8,400.0	8,013.2	16,438.4	8,065.6	9.4	67.1	-96.73	-735.7	595.0	1,042.9	967.4	75.57	13.802	
8,500.0	8,012.4	16,397.6	8,064.7	10.1	66.8	-96.59	-776.5	595.0	1,132.8	1,057.4	75.45	15.014	
8,600.0	8,011.6	16,362.1	8,064.4	10.8	66.6	-96.61	-812.0	595.1	1,224.3	1,148.9	75.38	16.241	
8,700.0	8,010.7	16,325.0	8,064.7	11.6	66.3	-96.73	-849.1	595.4	1,317.3	1,242.0	75.30	17.493	
8,800.0	8,009.9	16,300.2	8,064.9	12.4	66.1	-97.08	-873.9	595.6	1,411.6	1,336.3	75.30	18.746	
8,900.0	8,009.1	16,273.6	8,065.1	13.3	65.9	-97.48	-900.5	595.9	1,507.1	1,431.8	75.28	20.019	
9,000.0	8,008.2	16,250.3	8,065.0	14.1	65.7	-98.03	-923.7	596.2	1,603.6	1,528.3	75.28	21.302	
9,100.0	8,007.4	16,231.0	8,064.9	15.1	65.6	-98.84	-943.1	596.5	1,701.0	1,625.7	75.29	22.594	
9,200.0	8,006.5	16,216.6	8,064.8	16.0	65.5	-100.11	-957.5	596.8	1,799.2	1,723.9	75.31	23.890	
9,300.0	8,005.7	16,205.5	8,064.7	16.9	65.4	-102.17	-968.5	597.0	1,898.0	1,822.7	75.35	25.191	
9,400.0	8,004.8	16,197.3	8,064.7	17.9	65.3	-105.75	-976.8	597.2	1,997.3	1,921.9	75.38	26.496	
9,500.0	8,004.0	16,191.7	8,064.7	18.8	65.3	-113.21	-982.4	597.3	2,097.0	2,021.5	75.42	27.804	
9,600.0	8,003.2	16,188.7	8,064.7	19.8	65.3	-134.81	-985.4	597.4	2,196.8	2,121.4	75.46	29.111	
9,700.0	8,002.3	16,188.1	8,064.7	20.8	65.3	156.99	-985.9	597.4	2,296.8	2,221.3	75.51	30.417	
9,734.5	8,002.1	16,188.5	8,064.7	21.1	65.3	136.70	-985.6	597.4	2,331.3	2,255.8	75.53	30.868	
9,800.0	8,001.5	16,189.5	8,064.7	21.7	65.3	136.16	-984.6	597.4	2,396.7	2,321.2	75.56	31.720	
9,900.0	8,000.7	16,191.0	8,064.7	22.7	65.3	135.36	-983.1	597.3	2,496.7	2,421.1	75.61	33.021	
10,000.0	7,999.9	16,192.4	8,064.7	23.7	65.3	134.61	-981.7	597.3	2,596.7	2,521.0	75.66	34.318	
10,100.0	7,999.1	16,193.8	8,064.7	24.7	65.3	133.89	-980.3	597.3	2,696.6	2,620.9	75.72	35.612	
10,200.0	7,998.2	16,195.2	8,064.7	25.7	65.3	133.21	-978.9	597.2	2,796.6	2,720.8	75.78	36.904	
10,300.0	7,997.4	16,196.5	8,064.7	26.8	65.3	132.57	-977.6	597.2	2,896.5	2,820.7	75.84	38.192	
10,400.0	7,996.6	16,197.8	8,064.7	27.8	65.3	131.95	-976.3	597.2	2,996.5	2,920.6	75.90	39.477	
10,500.0	7,995.8	16,199.1	8,064.7	28.8	65.3	131.36	-975.0	597.2	3,096.5	3,020.5	75.97	40.759	
10,600.0	7,995.0	16,200.3	8,064.7	29.9	65.3	130.80	-973.8	597.1	3,196.4	3,120.4	76.04	42.038	
10,700.0	7,994.1	16,201.5	8,064.7	30.9	65.4	130.26	-972.6	597.1	3,296.4	3,220.3	76.11	43.313	
10,800.0	7,993.3	16,202.7	8,064.7	32.0	65.4	129.75	-971.4	597.1	3,396.4	3,320.2	76.18	44.584	
10,900.0	7,992.5	16,203.8	8,064.7	33.0	65.4	129.26	-970.2	597.1	3,496.3	3,420.1	76.25	45.852	
11,000.0	7,991.7	16,205.0	8,064.7	34.1	65.4	128.79	-969.1	597.0	3,596.3	3,520.0	76.33	47.116	
11,100.0	7,990.8	16,206.1	8,064.7	35.2	65.4	128.34	-968.0	597.0	3,696.3	3,619.9	76.41	48.376	
11,200.0	7,990.0	16,207.2	8,064.7	36.2	65.4	127.90	-966.9	597.0	3,796.2	3,719.7	76.49	49.633	
11,300.0	7,989.2	16,208.2	8,064.7	37.3	65.4	127.49	-965.9	597.0	3,896.2	3,819.6	76.57	50.885	
11,400.0	7,988.4	16,209.3	8,064.7	38.4	65.4	127.09	-964.8	596.9	3,996.2	3,919.5	76.65	52.134	
11,484.5	7,987.7	16,210.1	8,064.7	39.3	65.4	126.77	-964.0	596.9	4,080.7	4,004.0	76.72	53.187	
11,500.0	7,987.6	16,210.3	8,064.7	39.5	65.4	136.88	-963.8	596.9	4,096.2	4,019.4	76.74	53.379	
11,600.0	7,986.7	16,210.0	8,064.7	40.5	65.4	-120.22	-964.1	596.9	4,196.1	4,119.3	76.82	54.621	
11,700.0	7,985.9	16,207.8	8,064.7	41.6	65.4	-102.66	-966.3	597.0	4,296.1	4,219.1	76.91	55.861	
11,742.8	7,985.6	16,206.3	8,064.7	42.1	65.4	-100.05	-967.8	597.0	4,338.8	4,261.8	76.94	56.390	
11,800.0	7,985.1	16,204.1	8,064.7	42.7	65.4	-99.98	-970.0	597.0	4,395.8	4,318.8	76.99	57.097	
11,900.0	7,984.3	16,200.2	8,064.7	43.8	65.3	-99.86	-973.8	597.1	4,495.6	4,418.5	77.07	58.328	
12,000.0	7,983.5	16,196.5	8,064.7	44.9	65.3	-99.75	-977.6	597.2	4,595.3	4,518.1	77.16	59.556	
12,100.0	7,982.7	16,192.8	8,064.7	46.0	65.3	-99.65	-981.2	597.3	4,695.1	4,617.8	77.25	60.780	
12,134.7	7,982.4	16,191.6	8,064.7	46.4	65.3	-99.61	-982.5	597.3	4,729.6	4,652.4	77.28	61.203	
12,200.0	7,981.9	16,189.6	8,064.7	47.1	65.3	-104.10	-984.5	597.4	4,794.9	4,717.5	77.34	62.000	
12,300.0	7,981.1	16,188.2	8,064.7	48.2	65.3	-137.17	-985.9	597.4	4,894.8	4,817.4	77.43	63.215	
12,400.0	7,980.2	16,188.5	8,064.7	49.3	65.3	114.05	-985.6	597.4	4,994.8	4,917.3	77.53	64.425	
12,500.0	7,979.4	16,190.6	8,064.7	50.4	65.3	100.30	-983.4	597.4	5,094.7	5,017.1	77.63	65.627	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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
12,587.4	7,978.7	16,193.9	8,064.7	51.3	65.3	96.78	-980.2	597.3	5,181.9	5,104.1	77.72	66.671	
12,600.0	7,978.6	16,194.5	8,064.7	51.4	65.3	96.77	-979.6	597.3	5,194.4	5,116.7	77.74	66.821	
12,700.0	7,977.8	16,198.9	8,064.7	52.5	65.3	96.71	-975.2	597.2	5,294.0	5,216.2	77.85	68.006	
12,800.0	7,977.0	16,203.2	8,064.7	53.6	65.4	96.65	-970.8	597.1	5,393.6	5,315.7	77.96	69.186	
12,900.0	7,976.1	16,231.0	8,064.9	54.7	65.6	96.30	-943.1	596.5	5,493.3	5,415.2	78.16	70.280	
13,000.0	7,975.3	16,231.0	8,064.9	55.7	65.6	96.30	-943.1	596.5	5,592.9	5,514.7	78.26	71.464	
13,100.0	7,974.5	16,231.0	8,064.9	56.8	65.6	96.30	-943.1	596.5	5,692.5	5,614.2	78.36	72.643	
13,200.0	7,973.7	16,231.0	8,064.9	57.9	65.6	96.30	-943.1	596.5	5,792.2	5,713.7	78.47	73.818	
13,300.0	7,972.8	16,231.0	8,064.9	59.0	65.6	96.30	-943.1	596.5	5,891.8	5,813.2	78.57	74.989	
13,387.4	7,972.1	16,231.0	8,064.9	60.0	65.6	96.30	-943.1	596.5	5,978.9	5,900.2	78.66	76.009	
13,400.0	7,972.0	16,231.0	8,064.9	60.1	65.6	96.64	-943.1	596.5	5,991.4	5,912.8	78.67	76.156	
13,500.0	7,971.2	16,231.0	8,064.9	61.2	65.6	101.75	-943.1	596.5	6,091.2	6,012.5	78.78	77.318	
13,585.2	7,970.5	16,231.0	8,064.9	62.1	65.6	124.52	-943.1	596.5	6,176.4	6,097.5	78.88	78.304	
13,600.0	7,970.4	16,231.0	8,064.9	62.3	65.6	124.52	-943.1	596.5	6,191.2	6,112.3	78.89	78.475	
13,700.0	7,969.5	16,231.0	8,064.9	63.4	65.6	124.52	-943.1	596.5	6,291.2	6,212.2	79.01	79.628	
13,800.0	7,968.7	16,231.0	8,064.9	64.5	65.6	124.52	-943.1	596.5	6,391.2	6,312.1	79.12	80.777	
13,900.0	7,967.9	16,231.0	8,064.9	65.6	65.6	124.52	-943.1	596.5	6,491.2	6,411.9	79.24	81.921	
14,000.0	7,967.0	16,231.0	8,064.9	66.7	65.6	124.52	-943.1	596.5	6,591.2	6,511.8	79.35	83.061	
14,100.0	7,966.2	16,231.0	8,064.9	67.8	65.6	124.52	-943.1	596.5	6,691.1	6,611.7	79.47	84.196	
14,200.0	7,965.3	16,231.0	8,064.9	68.9	65.6	124.52	-943.1	596.5	6,791.1	6,711.5	79.59	85.328	
14,300.0	7,964.5	16,231.0	8,064.9	70.0	65.6	124.52	-943.1	596.5	6,891.1	6,811.4	79.71	86.454	
14,400.0	7,963.7	16,231.0	8,064.9	71.1	65.6	124.52	-943.1	596.5	6,991.1	6,911.3	79.83	87.577	
14,500.0	7,962.8	16,231.0	8,064.9	72.2	65.6	124.52	-943.1	596.5	7,091.1	7,011.2	79.95	88.695	
14,600.0	7,962.0	16,231.0	8,064.9	73.3	65.6	124.52	-943.1	596.5	7,191.1	7,111.0	80.07	89.809	
14,700.0	7,961.2	16,231.0	8,064.9	74.4	65.6	124.52	-943.1	596.5	7,291.1	7,210.9	80.19	90.918	
14,800.0	7,960.3	16,231.0	8,064.9	75.5	65.6	124.52	-943.1	596.5	7,391.1	7,310.8	80.32	92.024	
14,900.0	7,959.5	16,231.0	8,064.9	76.6	65.6	124.52	-943.1	596.5	7,491.1	7,410.6	80.44	93.125	
15,000.0	7,958.6	16,231.0	8,064.9	77.7	65.6	124.52	-943.1	596.5	7,591.1	7,510.5	80.57	94.221	
15,100.0	7,957.8	16,231.0	8,064.9	78.8	65.6	124.52	-943.1	596.5	7,691.1	7,610.4	80.69	95.314	
15,200.0	7,957.0	16,231.0	8,064.9	80.0	65.6	124.52	-943.1	596.5	7,791.1	7,710.2	80.82	96.402	
15,300.0	7,956.1	16,231.0	8,064.9	81.1	65.6	124.52	-943.1	596.5	7,891.0	7,810.1	80.95	97.486	
15,400.0	7,955.3	16,231.0	8,064.9	82.2	65.6	124.52	-943.1	596.5	7,991.0	7,910.0	81.07	98.566	
15,500.0	7,954.5	16,231.0	8,064.9	83.3	65.6	124.52	-943.1	596.5	8,091.0	8,009.8	81.20	99.641	
15,600.0	7,953.6	16,231.0	8,064.9	84.4	65.6	124.52	-943.1	596.5	8,191.0	8,109.7	81.33	100.713	
15,700.0	7,952.8	16,231.0	8,064.9	85.5	65.6	124.52	-943.1	596.5	8,291.0	8,209.6	81.46	101.780	
15,800.0	7,951.9	16,231.0	8,064.9	86.6	65.6	124.52	-943.1	596.5	8,391.0	8,309.4	81.59	102.843	
15,900.0	7,951.1	16,231.0	8,064.9	87.7	65.6	124.52	-943.1	596.5	8,491.0	8,409.3	81.72	103.902	
16,000.0	7,950.3	16,231.0	8,064.9	88.8	65.6	124.52	-943.1	596.5	8,591.0	8,509.1	81.85	104.957	
16,100.0	7,949.4	16,231.0	8,064.9	89.9	65.6	124.52	-943.1	596.5	8,691.0	8,609.0	81.98	106.007	
16,200.0	7,948.6	16,251.2	8,065.0	91.0	65.7	118.72	-922.9	596.2	8,790.9	8,708.7	82.22	106.925	
16,300.0	7,947.7	16,251.8	8,065.0	92.1	65.7	118.56	-922.2	596.2	8,890.9	8,808.6	82.35	107.962	
16,400.0	7,946.9	16,252.5	8,065.0	93.3	65.7	118.41	-921.6	596.2	8,990.9	8,908.4	82.49	108.995	
16,500.0	7,946.1	16,253.1	8,065.0	94.4	65.7	118.26	-921.0	596.2	9,090.9	9,008.3	82.63	110.023	
16,600.0	7,945.2	16,253.7	8,065.0	95.5	65.8	118.11	-920.3	596.2	9,190.9	9,108.2	82.77	111.048	
16,700.0	7,944.4	16,254.4	8,065.0	96.6	65.8	117.97	-919.7	596.2	9,290.9	9,208.0	82.90	112.068	
16,800.0	7,943.6	16,255.0	8,065.0	97.7	65.8	117.83	-919.1	596.2	9,390.9	9,307.9	83.04	113.084	
16,900.0	7,942.7	16,255.6	8,065.0	98.8	65.8	117.69	-918.5	596.2	9,490.9	9,407.7	83.18	114.097	
17,000.0	7,941.9	16,256.2	8,065.0	99.9	65.8	117.55	-917.9	596.1	9,590.9	9,507.6	83.32	115.105	
17,100.0	7,941.0	16,256.8	8,065.1	101.0	65.8	117.42	-917.3	596.1	9,690.9	9,607.4	83.46	116.109	
17,200.0	7,940.2	16,257.4	8,065.1	102.1	65.8	117.29	-916.7	596.1	9,790.9	9,707.3	83.60	117.110	
17,300.0	7,939.4	16,257.9	8,065.1	103.2	65.8	117.16	-916.1	596.1	9,890.9	9,807.1	83.75	118.106	
17,400.0	7,938.5	16,258.5	8,065.1	104.4	65.8	117.03	-915.6	596.1	9,990.9	9,907.0	83.89	119.099	

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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
17,500.0	7,937.7	16,259.1	8,065.1	105.5	65.8	116.90	-915.0	596.1	10,090.9	10,006.8	84.03	120.087	
17,600.0	7,936.9	16,259.7	8,065.1	106.6	65.8	116.78	-914.4	596.1	10,190.8	10,106.7	84.17	121.072	
17,700.0	7,936.0	16,260.2	8,065.1	107.7	65.8	116.66	-913.8	596.1	10,290.8	10,206.5	84.31	122.053	
17,800.0	7,935.2	16,260.8	8,065.1	108.8	65.8	116.54	-913.3	596.1	10,390.8	10,306.4	84.46	123.030	
17,866.6	7,934.6	16,261.2	8,065.1	109.5	65.8	116.47	-912.9	596.1	10,457.4	10,372.8	84.55	123.678	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3029.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3029.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #502H	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 @ 3029.0usft (TBD)

Offset Depths are relative to Offset Datum

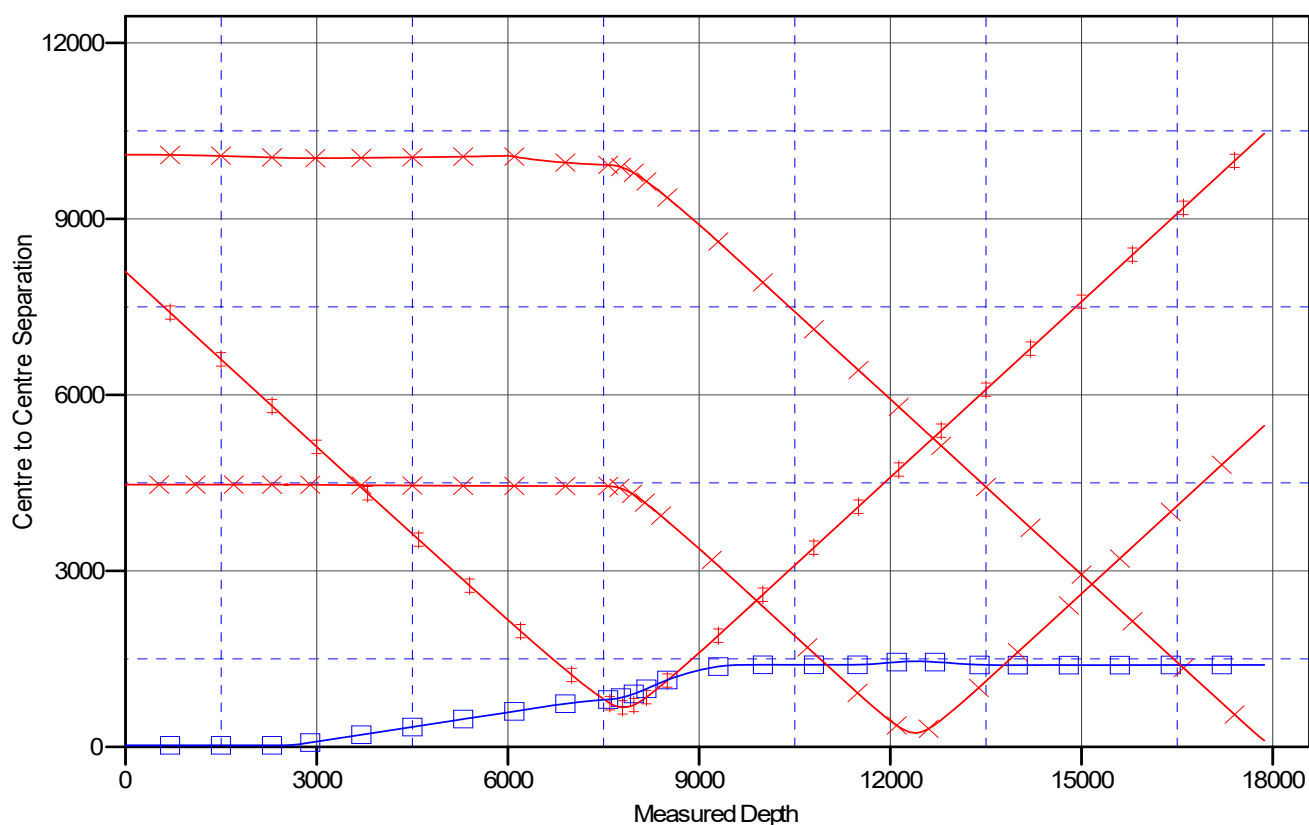
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #502H

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

Grid Convergence at Surface is: 0.12°

Ladder Plot



LEGEND

MOODY 21 ST COM #1H, OWB, ACTUAL WELLPATH V0
 MOODY 18 ST COM #1H, OWB, AWP V0
 MOODY ST COM #501H, OWB, PWP1 V0
 MOODY 17 FEE COM #2, OWB, AWP V0

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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 @ 3029.0usft (TBD)

Offset Depths are relative to Offset Datum

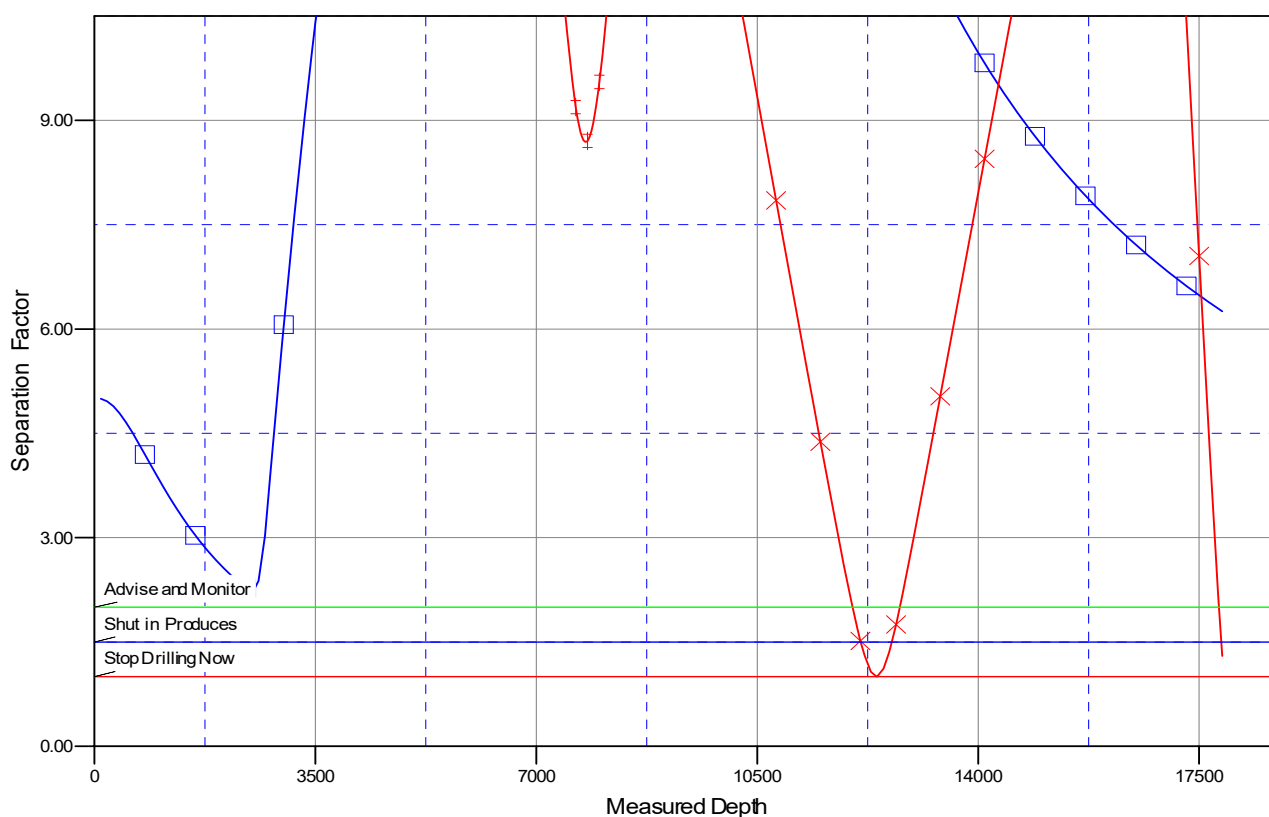
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #502H

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

MOODY ST COM #502H, OWB, PWP1 V0
 MOODY 18 STATE COM #18, OWB, AWP V0