

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 295184

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 30-015-48182
4. Property Code 330661	5. Property Name MOODY STATE COM	6. Well No. 501H

7. Surface Location

UL - Lot A	Section 17	Township 25S	Range 28E	Lot Idn A	Feet From 1085	N/S Line N	Feet From 270	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 18	Township 25S	Range 28E	Lot Idn 1	Feet From 750	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 3000
16. Multiple N	17. Proposed Depth 17963	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	17963	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 17,963 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 501H	
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC						9 Elevation 3000'	
10 Surface Location									
UL or lot no. A	Section 17	Township 25-S	Range 28-E	Lot Idn	Feet from the 1085'	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. L1	Section 18	Township 25-S	Range 28-E	Lot Idn	Feet from the 750'	North/South line NORTH	Feet from the 450'	East/West line WEST	County EDDY
12 Dedicated Acres 320.34		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.

		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. Signature: <u>Mayte Reyes</u> Date: <u>4-19-2021</u> Printed Name: Mayte Reyes E-mail Address: Mayte.X.Reyes@conocophillips.com	
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:413773.61' 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:602613.37' L - FOUND IRON PIPE W/ BRASS CAP N:411101.89' E:602599.58' M - FOUND IRON PIPE W/ BRASS CAP N:411065.60' E:607947.35'		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: <u>3/17/2021</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>12177</u>	

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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 #501H	30-015-48182	A-17-25S-28E	1085N 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 295184

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-48182
		Well: MOODY STATE COM #501H

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 295184

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-48182
	Well: MOODY STATE COM #501H

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 #501H

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#	17,963'	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 17,963 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 501H

Kick Off Point (KOP)

UL A	Section 17	Township 25S	Range 28E	Lot	Feet 1085'	From N/S N	Feet 270'	From E/W E	County EDDY
Latitude 32.13437422					Longitude -104.10183373				NAD 83

First Take Point (FTP)

UL A	Section 17	Township 25S	Range 28E	Lot	Feet 750'	From N/S N	Feet 330'	From E/W E	County Eddy
Latitude 32.13529520					Longitude -104.10203493				NAD 83

Last Take Point (LTP)

UL D	Section 18	Township 25S	Range 28E	Lot 1	Feet 750'	From N/S N	Feet 500'	From E/W W	County EDDY
Latitude 32.13528428					Longitude -104.13382240				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 OPERALING LLC	Property Name: MOODY STATE COM	Well Number 501H

KZ 06/29/2018

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #501H**

OWB

Plan: PWP1

Standard Survey Report

05 April, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	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 #501H			
Well Position	+N/-S	0.0 usft	Northing:	412,640.20 usft
	+E/-W	0.0 usft	Easting:	571,810.90 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Ground Level:	3,000.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/5/2021	6.81	59.74	47,408.81010833

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	271.79	

Survey Tool Program	Date	4/5/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,963.6	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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	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	28.18	2,600.0	1.5	0.8	-0.8	2.00	2.00	0.00
2,700.0	4.00	28.18	2,699.8	6.2	3.3	-3.1	2.00	2.00	0.00
2,750.0	5.00	28.18	2,749.7	9.6	5.1	-4.8	2.00	2.00	0.00
Start 3998.3 hold at 2750.0 MD									
2,800.0	5.00	28.18	2,799.5	13.5	7.2	-6.8	0.00	0.00	0.00
2,900.0	5.00	28.18	2,899.1	21.1	11.3	-10.7	0.00	0.00	0.00
3,000.0	5.00	28.18	2,998.7	28.8	15.4	-14.5	0.00	0.00	0.00
3,100.0	5.00	28.18	3,098.4	36.5	19.6	-18.4	0.00	0.00	0.00
3,200.0	5.00	28.18	3,198.0	44.2	23.7	-22.3	0.00	0.00	0.00
3,300.0	5.00	28.18	3,297.6	51.9	27.8	-26.1	0.00	0.00	0.00
3,400.0	5.00	28.18	3,397.2	59.5	31.9	-30.0	0.00	0.00	0.00
3,500.0	5.00	28.18	3,496.8	67.2	36.0	-33.9	0.00	0.00	0.00
3,600.0	5.00	28.18	3,596.4	74.9	40.1	-37.8	0.00	0.00	0.00
3,700.0	5.00	28.18	3,696.1	82.6	44.2	-41.6	0.00	0.00	0.00
3,800.0	5.00	28.18	3,795.7	90.3	48.4	-45.5	0.00	0.00	0.00
3,900.0	5.00	28.18	3,895.3	98.0	52.5	-49.4	0.00	0.00	0.00
4,000.0	5.00	28.18	3,994.9	105.6	56.6	-53.3	0.00	0.00	0.00
4,100.0	5.00	28.18	4,094.5	113.3	60.7	-57.1	0.00	0.00	0.00
4,200.0	5.00	28.18	4,194.2	121.0	64.8	-61.0	0.00	0.00	0.00
4,300.0	5.00	28.18	4,293.8	128.7	68.9	-64.9	0.00	0.00	0.00
4,400.0	5.00	28.18	4,393.4	136.4	73.1	-68.8	0.00	0.00	0.00
4,500.0	5.00	28.18	4,493.0	144.1	77.2	-72.6	0.00	0.00	0.00
4,600.0	5.00	28.18	4,592.6	151.7	81.3	-76.5	0.00	0.00	0.00
4,700.0	5.00	28.18	4,692.3	159.4	85.4	-80.4	0.00	0.00	0.00
4,800.0	5.00	28.18	4,791.9	167.1	89.5	-84.3	0.00	0.00	0.00
4,900.0	5.00	28.18	4,891.5	174.8	93.6	-88.1	0.00	0.00	0.00
5,000.0	5.00	28.18	4,991.1	182.5	97.8	-92.0	0.00	0.00	0.00
5,100.0	5.00	28.18	5,090.7	190.2	101.9	-95.9	0.00	0.00	0.00
5,200.0	5.00	28.18	5,190.4	197.8	106.0	-99.7	0.00	0.00	0.00
5,300.0	5.00	28.18	5,290.0	205.5	110.1	-103.6	0.00	0.00	0.00
5,400.0	5.00	28.18	5,389.6	213.2	114.2	-107.5	0.00	0.00	0.00
5,500.0	5.00	28.18	5,489.2	220.9	118.3	-111.4	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,600.0	5.00	28.18	5,588.8	228.6	122.4	-115.2	0.00	0.00	0.00
5,700.0	5.00	28.18	5,688.5	236.2	126.6	-119.1	0.00	0.00	0.00
5,800.0	5.00	28.18	5,788.1	243.9	130.7	-123.0	0.00	0.00	0.00
5,900.0	5.00	28.18	5,887.7	251.6	134.8	-126.9	0.00	0.00	0.00
6,000.0	5.00	28.18	5,987.3	259.3	138.9	-130.7	0.00	0.00	0.00
6,100.0	5.00	28.18	6,086.9	267.0	143.0	-134.6	0.00	0.00	0.00
6,200.0	5.00	28.18	6,186.6	274.7	147.1	-138.5	0.00	0.00	0.00
6,300.0	5.00	28.18	6,286.2	282.3	151.3	-142.4	0.00	0.00	0.00
6,400.0	5.00	28.18	6,385.8	290.0	155.4	-146.2	0.00	0.00	0.00
6,500.0	5.00	28.18	6,485.4	297.7	159.5	-150.1	0.00	0.00	0.00
6,600.0	5.00	28.18	6,585.0	305.4	163.6	-154.0	0.00	0.00	0.00
6,700.0	5.00	28.18	6,684.7	313.1	167.7	-157.8	0.00	0.00	0.00
6,748.3	5.00	28.18	6,732.7	316.8	169.7	-159.7	0.00	0.00	0.00
Start Drop -1.00									
6,800.0	4.48	28.18	6,784.3	320.5	171.7	-161.6	1.00	-1.00	0.00
6,900.0	3.48	28.18	6,884.0	326.7	175.0	-164.7	1.00	-1.00	0.00
7,000.0	2.48	28.18	6,983.9	331.3	177.5	-167.0	1.00	-1.00	0.00
7,100.0	1.48	28.18	7,083.9	334.3	179.1	-168.6	1.00	-1.00	0.00
7,200.0	0.48	28.18	7,183.8	335.8	179.9	-169.3	1.00	-1.00	0.00
7,248.3	0.00	0.00	7,232.1	336.0	180.0	-169.4	1.00	-1.00	0.00
Start 310.5 hold at 7248.3 MD									
7,300.0	0.00	0.00	7,283.8	336.0	180.0	-169.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,383.8	336.0	180.0	-169.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,483.8	336.0	180.0	-169.4	0.00	0.00	0.00
7,558.8	0.00	0.00	7,542.6	336.0	180.0	-169.4	0.00	0.00	0.00
Start DLS 12.00 TFO 269.86									
7,600.0	4.95	269.86	7,583.8	336.0	178.2	-167.6	12.00	12.00	0.00
7,700.0	16.95	269.86	7,681.8	335.9	159.3	-148.7	12.00	12.00	0.00
7,800.0	28.95	269.86	7,773.7	335.9	120.3	-109.8	12.00	12.00	0.00
7,900.0	40.95	269.86	7,855.5	335.7	63.2	-52.6	12.00	12.00	0.00
8,000.0	52.95	269.86	7,923.7	335.5	-9.8	20.3	12.00	12.00	0.00
8,100.0	64.95	269.86	7,975.1	335.3	-95.3	105.7	12.00	12.00	0.00
8,200.0	76.95	269.86	8,007.7	335.1	-189.6	200.0	12.00	12.00	0.00
8,300.0	88.95	269.86	8,020.0	334.9	-288.7	299.0	12.00	12.00	0.00
8,312.7	90.48	269.86	8,020.0	334.8	-301.4	311.7	12.00	12.00	0.00
Start 9651.0 hold at 8312.7 MD									
8,400.0	90.48	269.86	8,019.3	334.6	-388.7	399.0	0.00	0.00	0.00
8,500.0	90.48	269.86	8,018.5	334.4	-488.7	498.9	0.00	0.00	0.00
8,600.0	90.48	269.86	8,017.7	334.1	-588.7	598.8	0.00	0.00	0.00
8,700.0	90.48	269.86	8,016.8	333.9	-688.7	698.8	0.00	0.00	0.00
8,800.0	90.48	269.86	8,016.0	333.6	-788.7	798.7	0.00	0.00	0.00
8,900.0	90.48	269.86	8,015.2	333.4	-888.7	898.7	0.00	0.00	0.00
9,000.0	90.48	269.86	8,014.3	333.1	-988.7	998.6	0.00	0.00	0.00
9,100.0	90.48	269.86	8,013.5	332.9	-1,088.7	1,098.5	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	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)	
9,200.0	90.48	269.86	8,012.7	332.7	-1,188.7	1,198.5	0.00	0.00	0.00	
9,300.0	90.48	269.86	8,011.9	332.4	-1,288.7	1,298.4	0.00	0.00	0.00	
9,400.0	90.48	269.86	8,011.0	332.2	-1,388.7	1,398.4	0.00	0.00	0.00	
9,500.0	90.48	269.86	8,010.2	331.9	-1,488.7	1,498.3	0.00	0.00	0.00	
9,600.0	90.48	269.86	8,009.4	331.7	-1,588.6	1,598.2	0.00	0.00	0.00	
9,700.0	90.48	269.86	8,008.5	331.4	-1,688.6	1,698.2	0.00	0.00	0.00	
9,800.0	90.48	269.86	8,007.7	331.2	-1,788.6	1,798.1	0.00	0.00	0.00	
9,900.0	90.48	269.86	8,006.9	330.9	-1,888.6	1,898.1	0.00	0.00	0.00	
10,000.0	90.48	269.86	8,006.1	330.7	-1,988.6	1,998.0	0.00	0.00	0.00	
10,100.0	90.48	269.86	8,005.2	330.5	-2,088.6	2,097.9	0.00	0.00	0.00	
10,200.0	90.48	269.86	8,004.4	330.2	-2,188.6	2,197.9	0.00	0.00	0.00	
10,300.0	90.48	269.86	8,003.6	330.0	-2,288.6	2,297.8	0.00	0.00	0.00	
10,400.0	90.48	269.86	8,002.7	329.7	-2,388.6	2,397.8	0.00	0.00	0.00	
10,500.0	90.48	269.86	8,001.9	329.5	-2,488.6	2,497.7	0.00	0.00	0.00	
10,600.0	90.48	269.86	8,001.1	329.2	-2,588.6	2,597.6	0.00	0.00	0.00	
10,700.0	90.48	269.86	8,000.2	329.0	-2,688.6	2,697.6	0.00	0.00	0.00	
10,800.0	90.48	269.86	7,999.4	328.7	-2,788.6	2,797.5	0.00	0.00	0.00	
10,900.0	90.48	269.86	7,998.6	328.5	-2,888.6	2,897.5	0.00	0.00	0.00	
11,000.0	90.48	269.86	7,997.8	328.3	-2,988.6	2,997.4	0.00	0.00	0.00	
11,100.0	90.48	269.86	7,996.9	328.0	-3,088.6	3,097.3	0.00	0.00	0.00	
11,200.0	90.48	269.86	7,996.1	327.8	-3,188.6	3,197.3	0.00	0.00	0.00	
11,300.0	90.48	269.86	7,995.3	327.5	-3,288.6	3,297.2	0.00	0.00	0.00	
11,400.0	90.48	269.86	7,994.4	327.3	-3,388.6	3,397.2	0.00	0.00	0.00	
11,500.0	90.48	269.86	7,993.6	327.0	-3,488.6	3,497.1	0.00	0.00	0.00	
11,600.0	90.48	269.86	7,992.8	326.8	-3,588.6	3,597.0	0.00	0.00	0.00	
11,700.0	90.48	269.86	7,992.0	326.5	-3,688.6	3,697.0	0.00	0.00	0.00	
11,800.0	90.48	269.86	7,991.1	326.3	-3,788.6	3,796.9	0.00	0.00	0.00	
11,900.0	90.48	269.86	7,990.3	326.0	-3,888.6	3,896.9	0.00	0.00	0.00	
12,000.0	90.48	269.86	7,989.5	325.8	-3,988.6	3,996.8	0.00	0.00	0.00	
12,100.0	90.48	269.86	7,988.6	325.6	-4,088.6	4,096.7	0.00	0.00	0.00	
12,200.0	90.48	269.86	7,987.8	325.3	-4,188.6	4,196.7	0.00	0.00	0.00	
12,300.0	90.48	269.86	7,987.0	325.1	-4,288.5	4,296.6	0.00	0.00	0.00	
12,400.0	90.48	269.86	7,986.1	324.8	-4,388.5	4,396.6	0.00	0.00	0.00	
12,500.0	90.48	269.86	7,985.3	324.6	-4,488.5	4,496.5	0.00	0.00	0.00	
12,600.0	90.48	269.86	7,984.5	324.3	-4,588.5	4,596.4	0.00	0.00	0.00	
12,700.0	90.48	269.86	7,983.7	324.1	-4,688.5	4,696.4	0.00	0.00	0.00	
12,800.0	90.48	269.86	7,982.8	323.8	-4,788.5	4,796.3	0.00	0.00	0.00	
12,900.0	90.48	269.86	7,982.0	323.6	-4,888.5	4,896.3	0.00	0.00	0.00	
13,000.0	90.48	269.86	7,981.2	323.4	-4,988.5	4,996.2	0.00	0.00	0.00	
13,100.0	90.48	269.86	7,980.3	323.1	-5,088.5	5,096.1	0.00	0.00	0.00	
13,200.0	90.48	269.86	7,979.5	322.9	-5,188.5	5,196.1	0.00	0.00	0.00	
13,300.0	90.48	269.86	7,978.7	322.6	-5,288.5	5,296.0	0.00	0.00	0.00	
13,400.0	90.48	269.86	7,977.9	322.4	-5,388.5	5,396.0	0.00	0.00	0.00	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.48	269.86	7,977.0	322.1	-5,488.5	5,495.9	0.00	0.00	0.00
13,600.0	90.48	269.86	7,976.2	321.9	-5,588.5	5,595.8	0.00	0.00	0.00
13,700.0	90.48	269.86	7,975.4	321.6	-5,688.5	5,695.8	0.00	0.00	0.00
13,800.0	90.48	269.86	7,974.5	321.4	-5,788.5	5,795.7	0.00	0.00	0.00
13,900.0	90.48	269.86	7,973.7	321.2	-5,888.5	5,895.6	0.00	0.00	0.00
14,000.0	90.48	269.86	7,972.9	320.9	-5,988.5	5,995.6	0.00	0.00	0.00
14,100.0	90.48	269.86	7,972.0	320.7	-6,088.5	6,095.5	0.00	0.00	0.00
14,200.0	90.48	269.86	7,971.2	320.4	-6,188.5	6,195.5	0.00	0.00	0.00
14,300.0	90.48	269.86	7,970.4	320.2	-6,288.5	6,295.4	0.00	0.00	0.00
14,400.0	90.48	269.86	7,969.6	319.9	-6,388.5	6,395.3	0.00	0.00	0.00
14,500.0	90.48	269.86	7,968.7	319.7	-6,488.5	6,495.3	0.00	0.00	0.00
14,600.0	90.48	269.86	7,967.9	319.4	-6,588.5	6,595.2	0.00	0.00	0.00
14,700.0	90.48	269.86	7,967.1	319.2	-6,688.5	6,695.2	0.00	0.00	0.00
14,800.0	90.48	269.86	7,966.2	319.0	-6,788.5	6,795.1	0.00	0.00	0.00
14,900.0	90.48	269.86	7,965.4	318.7	-6,888.5	6,895.0	0.00	0.00	0.00
15,000.0	90.48	269.86	7,964.6	318.5	-6,988.4	6,995.0	0.00	0.00	0.00
15,100.0	90.48	269.86	7,963.8	318.2	-7,088.4	7,094.9	0.00	0.00	0.00
15,200.0	90.48	269.86	7,962.9	318.0	-7,188.4	7,194.9	0.00	0.00	0.00
15,300.0	90.48	269.86	7,962.1	317.7	-7,288.4	7,294.8	0.00	0.00	0.00
15,400.0	90.48	269.86	7,961.3	317.5	-7,388.4	7,394.7	0.00	0.00	0.00
15,500.0	90.48	269.86	7,960.4	317.2	-7,488.4	7,494.7	0.00	0.00	0.00
15,600.0	90.48	269.86	7,959.6	317.0	-7,588.4	7,594.6	0.00	0.00	0.00
15,700.0	90.48	269.86	7,958.8	316.8	-7,688.4	7,694.6	0.00	0.00	0.00
15,800.0	90.48	269.86	7,957.9	316.5	-7,788.4	7,794.5	0.00	0.00	0.00
15,900.0	90.48	269.86	7,957.1	316.3	-7,888.4	7,894.4	0.00	0.00	0.00
16,000.0	90.48	269.86	7,956.3	316.0	-7,988.4	7,994.4	0.00	0.00	0.00
16,100.0	90.48	269.86	7,955.5	315.8	-8,088.4	8,094.3	0.00	0.00	0.00
16,200.0	90.48	269.86	7,954.6	315.5	-8,188.4	8,194.3	0.00	0.00	0.00
16,300.0	90.48	269.86	7,953.8	315.3	-8,288.4	8,294.2	0.00	0.00	0.00
16,400.0	90.48	269.86	7,953.0	315.0	-8,388.4	8,394.1	0.00	0.00	0.00
16,500.0	90.48	269.86	7,952.1	314.8	-8,488.4	8,494.1	0.00	0.00	0.00
16,600.0	90.48	269.86	7,951.3	314.6	-8,588.4	8,594.0	0.00	0.00	0.00
16,700.0	90.48	269.86	7,950.5	314.3	-8,688.4	8,694.0	0.00	0.00	0.00
16,800.0	90.48	269.86	7,949.7	314.1	-8,788.4	8,793.9	0.00	0.00	0.00
16,900.0	90.48	269.86	7,948.8	313.8	-8,888.4	8,893.8	0.00	0.00	0.00
17,000.0	90.48	269.86	7,948.0	313.6	-8,988.4	8,993.8	0.00	0.00	0.00
17,100.0	90.48	269.86	7,947.2	313.3	-9,088.4	9,093.7	0.00	0.00	0.00
17,200.0	90.48	269.86	7,946.3	313.1	-9,188.4	9,193.7	0.00	0.00	0.00
17,300.0	90.48	269.86	7,945.5	312.8	-9,288.4	9,293.6	0.00	0.00	0.00
17,400.0	90.48	269.86	7,944.7	312.6	-9,388.4	9,393.5	0.00	0.00	0.00
17,500.0	90.48	269.86	7,943.8	312.4	-9,488.4	9,493.5	0.00	0.00	0.00
17,600.0	90.48	269.86	7,943.0	312.1	-9,588.3	9,593.4	0.00	0.00	0.00
17,700.0	90.48	269.86	7,942.2	311.9	-9,688.3	9,693.4	0.00	0.00	0.00
17,800.0	90.48	269.86	7,941.4	311.6	-9,788.3	9,793.3	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Well:	MOODY ST COM #501H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,900.0	90.48	269.86	7,940.5	311.4	-9,888.3	9,893.2	0.00	0.00	0.00
17,963.7	90.48	269.86	7,940.0	311.2	-9,952.0	9,956.9	0.00	0.00	0.00
TD at 17963.7									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (MOODY ST COI - plan misses target center by 13.7usft at 17900.0usft MD (7940.5 TVD, 311.4 N, -9888.3 E) - Point	0.00	0.00	7,940.0	311.4	-9,902.0	412,951.57	561,908.87	32° 8' 6.585 N	104° 7' 59.988 W
PBHL (MOODY ST C - plan hits target center - Rectangle (sides W100.0 H9,940.0 D20.0)	0.48	89.86	7,940.0	311.2	-9,952.0	412,951.42	561,858.87	32° 8' 6.584 N	104° 8' 0.570 W
FTP (MOODY ST CO - plan misses target center by 54.6usft at 8095.5usft MD (7973.2 TVD, 335.3 N, -91.2 E) - Circle (radius 50.0)	0.00	0.00	8,020.0	334.9	-63.0	412,975.10	571,747.91	32° 8' 6.623 N	104° 6' 5.559 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2750	2750	10	5	Start 3998.3 hold at 2750.0 MD
6748	6733	317	170	Start Drop -1.00
7248	7232	336	180	Start 310.5 hold at 7248.3 MD
7559	7543	336	180	Start DLS 12.00 TFO 269.86
8313	8020	335	-301	Start 9651.0 hold at 8312.7 MD
17,964	7940	311	-9952	TD at 17963.7

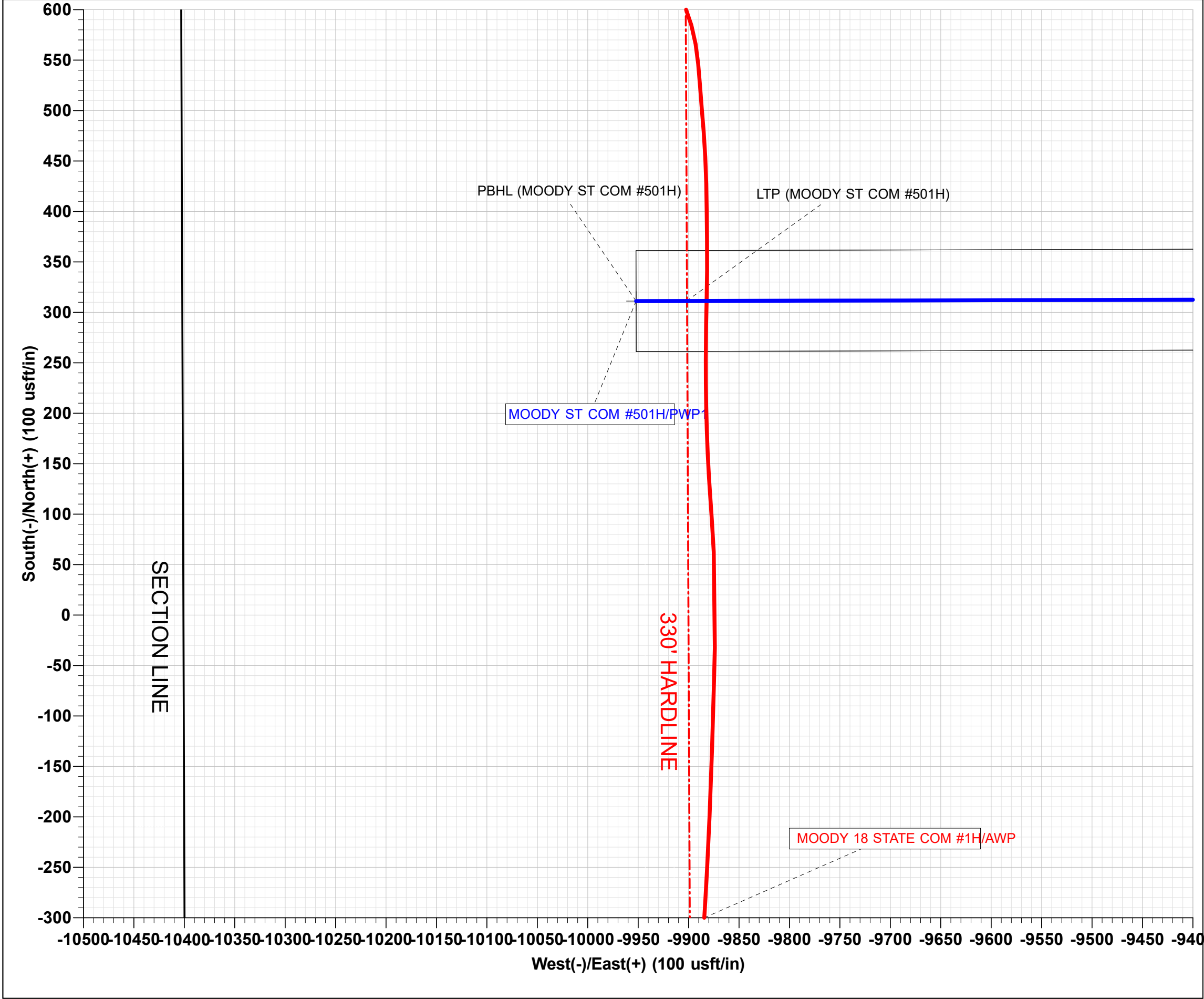
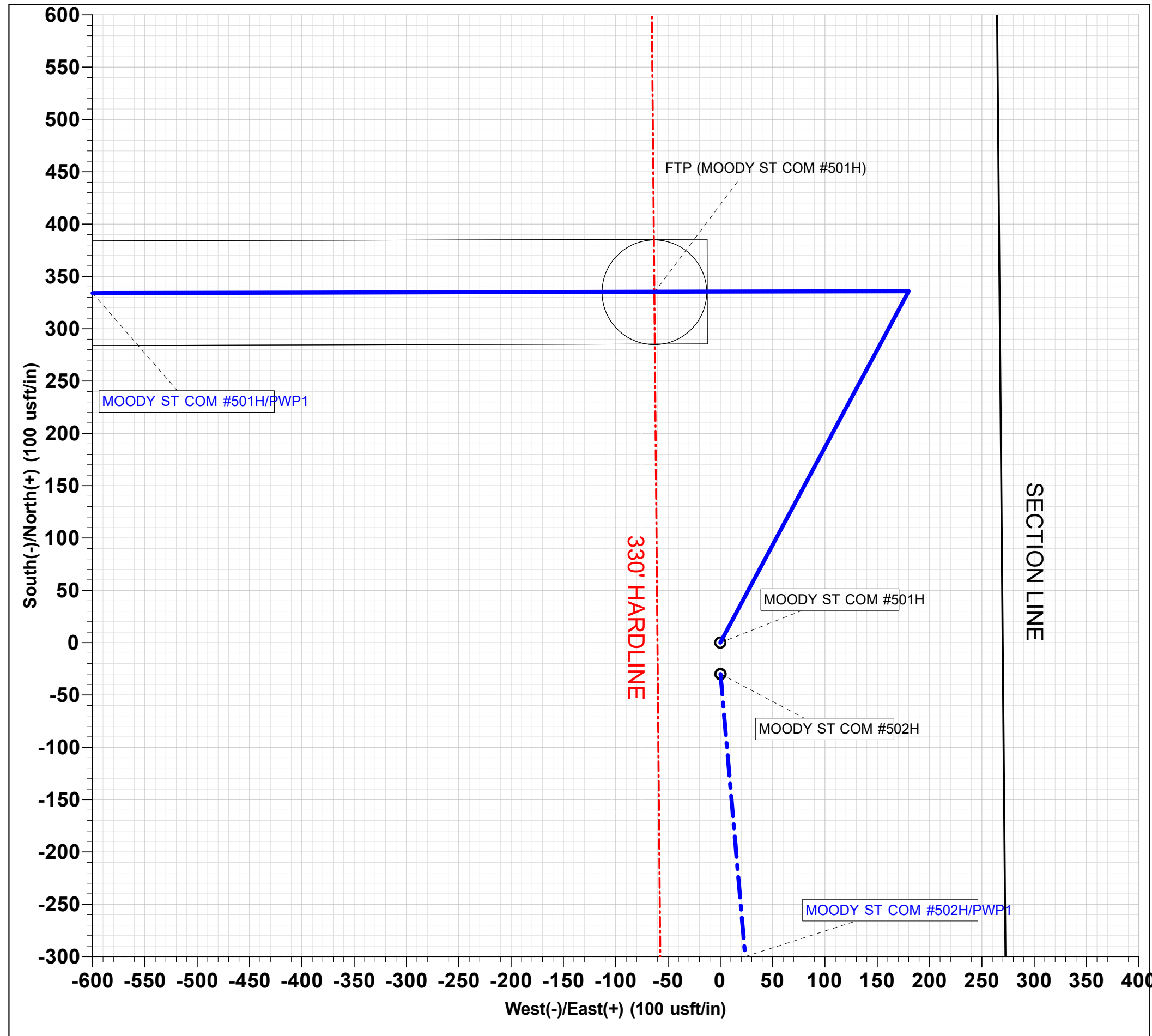
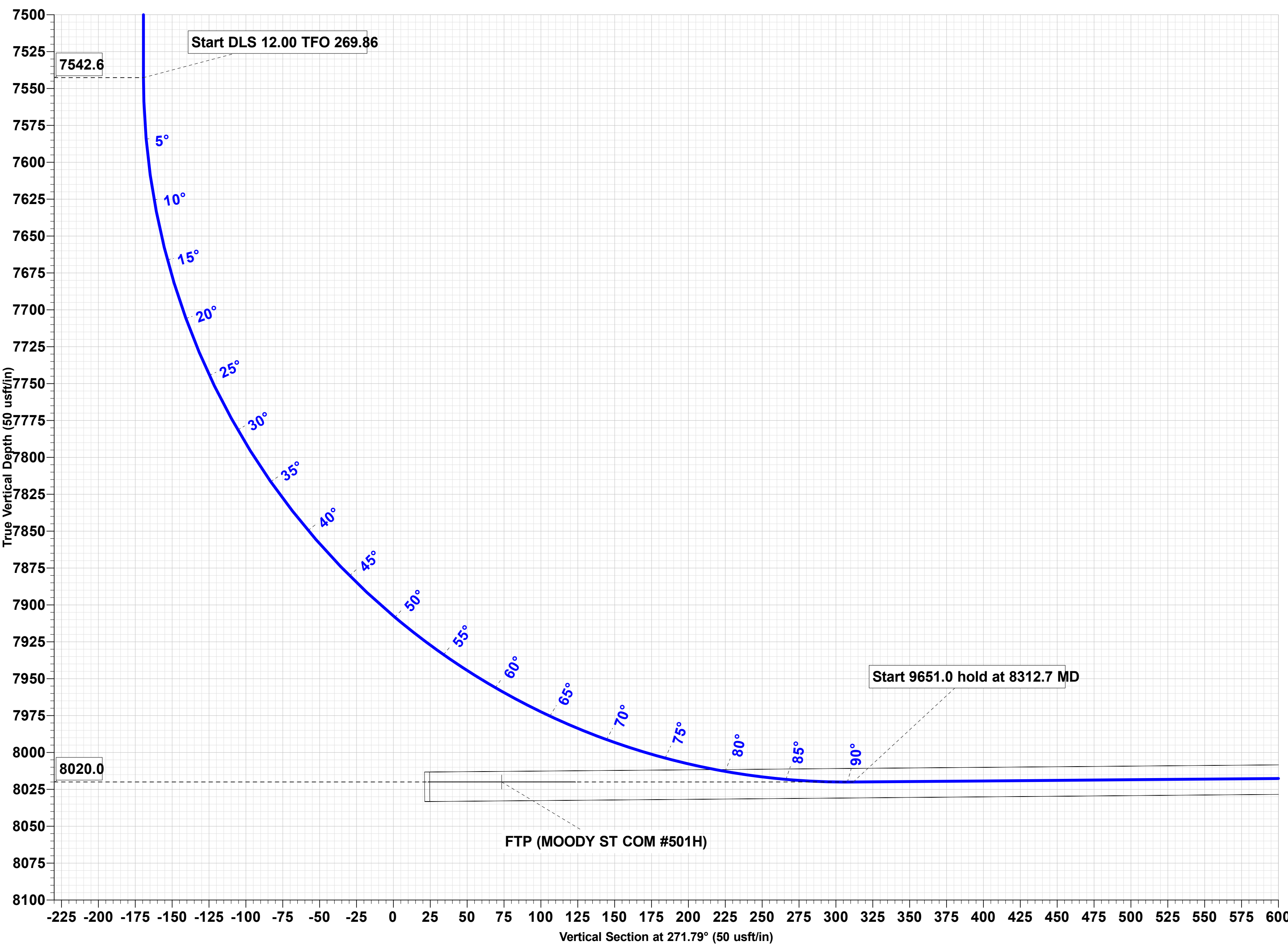
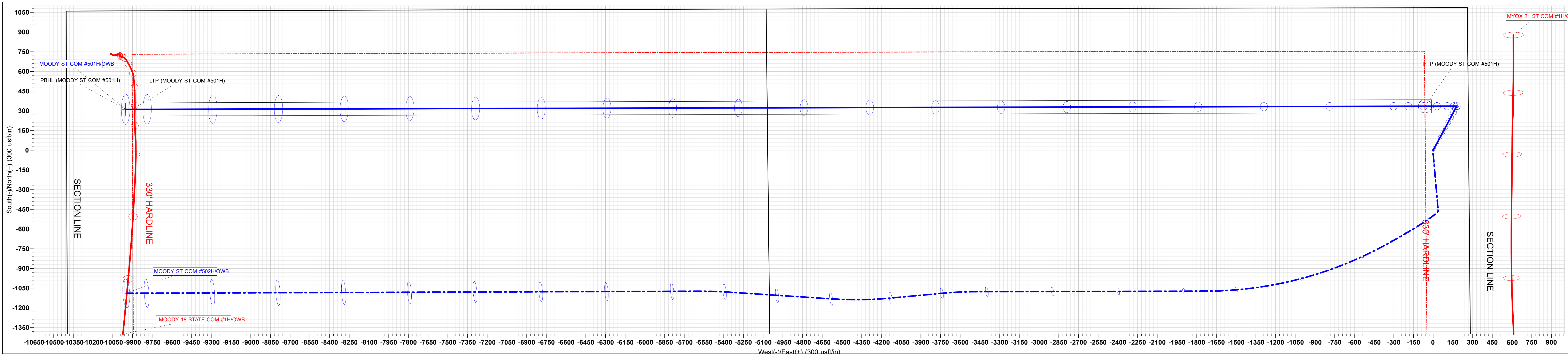
Checked By: _____ Approved By: _____ Date: _____



Project: ATLAS PROSPECT (NM-E)
Site: MOODY ST COM PROJECT
Well: MOODY ST COM #501H
Wellbore: OWB
Design: PWP1
GL: 3000.0
*KB=30 @ 3030.0usft (TBD)

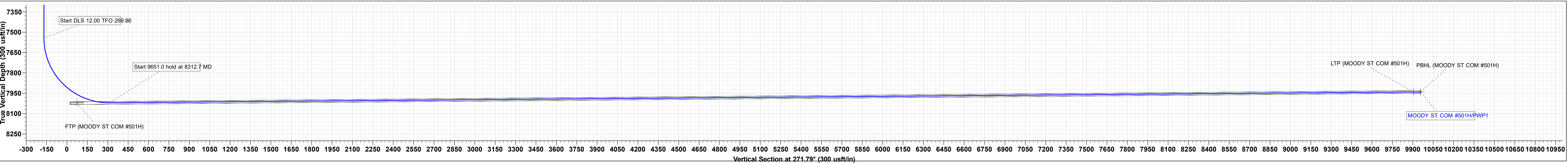
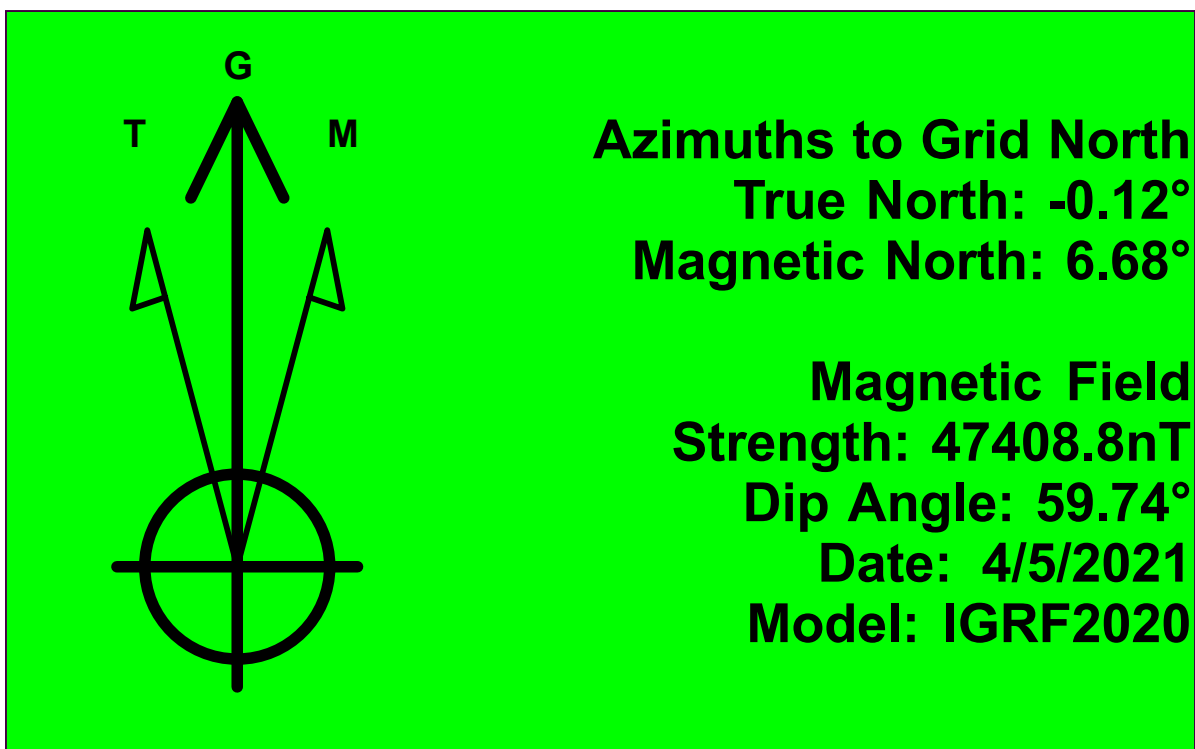
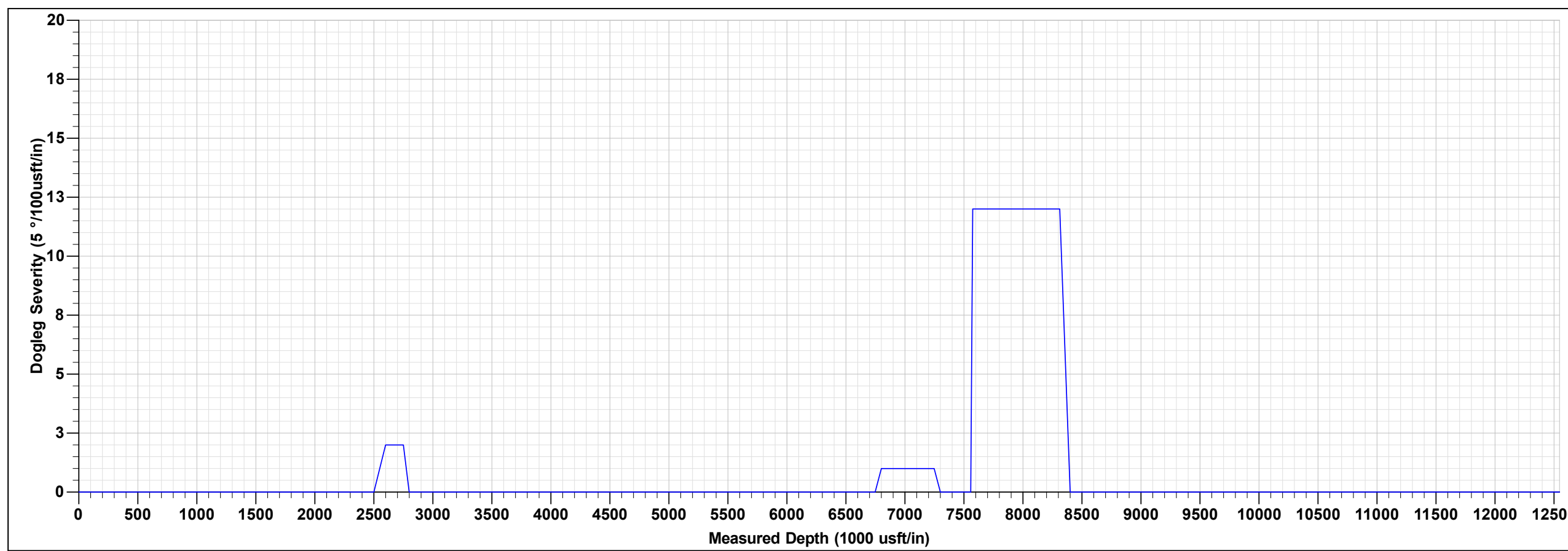
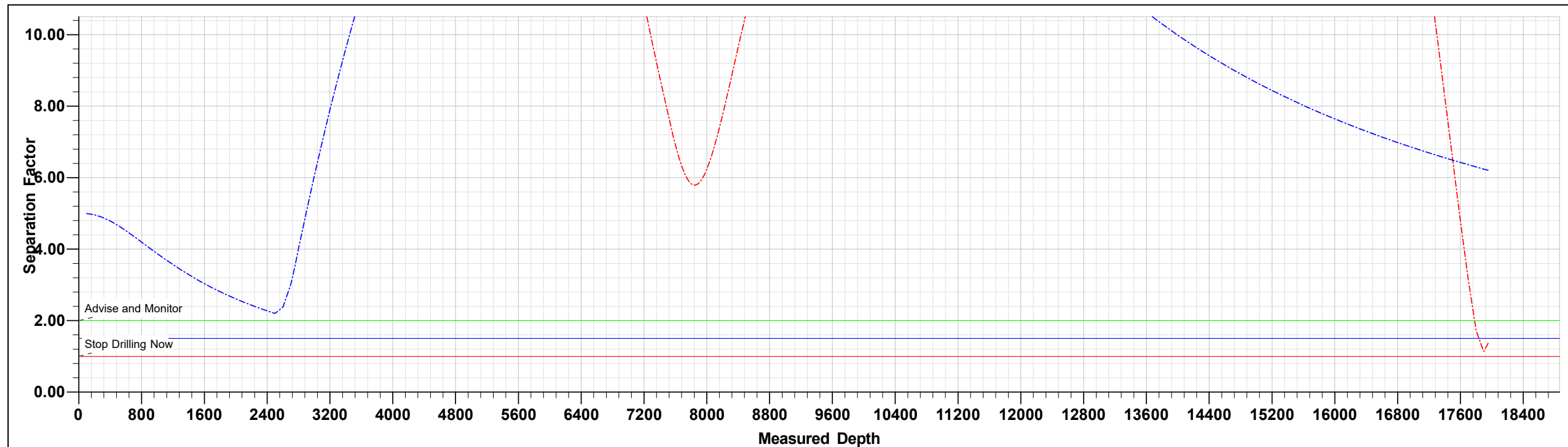
WELL DETAILS: MOODY ST COM #501H

Northing 412640.20 Easting 571810.90 Latitude 32° 8' 3.307 N Longitude 104° 6' 4.835 W



MOODY ST COM #501H									
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	28.18	2749.7	9.6	5.1	2.00	28.18	-4.8	Start 3998.3 hold at 2750.0 MD
6748.3	5.00	28.18	6732.7	316.8	169.7	0.00	0.00	-159.7	Start Drop -1.00
7248.3	0.00	0.00	7232.1	336.0	180.0	1.00	180.00	-169.4	Start 310.5 hold at 7248.3 MD
7558.8	0.00	0.00	7542.6	336.0	180.0	0.00	0.00	-169.4	Start DLS 12.00 TFO 269.86
8312.7	90.48	269.86	8020.0	334.8	-301.4	12.00	269.86	311.7	Start 9651.0 hold at 8312.7 MD
17963.7	90.48	269.86	7940.0	311.2	-9952.0	0.00	0.00	9956.9	TD at 17963.7

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
LTP (MOODY ST COM #501H)	7940.0	311.4	-9902.0	412951.57	561908.87
PBHL (MOODY ST COM #501H)	7940.0	311.2	-9952.0	412951.42	561858.87
FTP (MOODY ST COM #501H)	8020.0	334.9	-63.0	412975.10	571747.91



DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #501H**

**OWB
PWP1**

Anticollision Report

05 April, 2021



ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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	4/5/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,963.6	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 18 STATE COM #1H - OWB - AWP	17,895.2	8,078.0	110.8	14.1	1.145	Shut in Produces, CC, ES
MOODY ST COM #502H - OWB - PWP1	2,500.0	2,499.0	30.0	16.4	2.202	
MYOX 30 & 31 STATE PROJECT (ATLAS 2528)						
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,818.6	17,526.3	580.4	480.4	5.806	CC
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,825.0	17,526.3	580.5	480.4	5.799	ES
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,850.0	17,526.5	582.3	481.7	5.792	SF

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		
0.0	0.0	0.0	0.0	3.0	3.0	-85.83	734.6	-10,066.1	10,093.0					
100.0	100.0	68.2	68.2	3.0	3.0	-85.83	734.8	-10,066.4	10,093.4	10,087.4	6.00	1,680.899		
200.0	200.0	148.1	148.1	3.0	3.1	-85.82	735.3	-10,067.1	10,094.3	10,088.3	6.06	1,666.642		
300.0	300.0	341.1	341.0	3.1	3.4	-85.81	737.1	-10,068.0	10,095.0	10,088.7	6.29	1,604.533		
400.0	400.0	575.2	575.2	3.2	3.8	-85.82	735.7	-10,066.3	10,094.1	10,087.3	6.76	1,494.287		
500.0	500.0	696.4	696.4	3.4	4.2	-85.83	734.3	-10,064.7	10,092.6	10,085.5	7.14	1,413.151		
600.0	600.0	851.6	851.5	3.6	4.6	-85.84	732.5	-10,061.9	10,090.7	10,083.0	7.68	1,314.505		
700.0	700.0	951.6	951.5	3.8	4.9	-85.84	731.5	-10,059.9	10,088.6	10,080.5	8.14	1,239.848		
800.0	800.0	1,041.9	1,041.8	4.0	5.2	-85.85	730.5	-10,058.1	10,086.6	10,078.0	8.60	1,172.309		
900.0	900.0	1,127.0	1,126.9	4.2	5.4	-85.85	729.6	-10,056.5	10,084.7	10,075.6	9.08	1,110.322		
1,000.0	1,000.0	1,211.4	1,211.2	4.5	5.7	-85.86	728.7	-10,055.1	10,082.9	10,073.3	9.58	1,052.500		
1,100.0	1,100.0	1,300.0	1,299.8	4.8	6.0	-85.86	727.7	-10,053.8	10,081.3	10,071.2	10.11	997.593		
1,200.0	1,200.0	1,380.6	1,380.4	5.1	6.2	-85.87	726.6	-10,052.7	10,079.9	10,069.2	10.62	948.942		
1,300.0	1,300.0	1,455.8	1,455.6	5.3	6.5	-85.87	725.5	-10,051.8	10,078.6	10,067.5	11.14	905.046		
1,400.0	1,400.0	1,534.6	1,534.4	5.6	6.7	-85.88	724.6	-10,051.1	10,077.6	10,065.9	11.67	863.447		
1,500.0	1,500.0	1,860.0	1,859.7	6.0	7.7	-85.88	722.8	-10,044.5	10,075.5	10,062.5	13.02	773.933		
1,600.0	1,600.0	2,119.8	2,119.3	6.3	8.6	-85.87	724.3	-10,033.6	10,071.0	10,056.7	14.23	707.691		
1,700.0	1,700.0	2,200.0	2,199.4	6.6	8.8	-85.87	724.8	-10,029.8	10,066.4	10,051.6	14.83	678.855		
1,800.0	1,800.0	2,252.3	2,251.6	6.9	9.0	-85.86	725.1	-10,027.6	10,062.1	10,046.8	15.33	656.181		
1,900.0	1,900.0	2,300.0	2,299.3	7.2	9.2	-85.86	725.4	-10,025.7	10,058.2	10,042.4	15.83	635.475		
2,000.0	2,000.0	2,382.0	2,381.2	7.6	9.4	-85.86	725.7	-10,022.7	10,054.7	10,038.3	16.44	611.550		

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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		
2,100.0	2,100.0	2,473.5	2,472.7	7.9	9.7	-85.86	725.9	-10,019.7	10,051.4	10,034.3	17.09	588.160		
2,200.0	2,200.0	2,552.9	2,552.0	8.2	10.0	-85.85	726.0	-10,017.1	10,048.2	10,030.5	17.70	567.730		
2,300.0	2,300.0	2,622.1	2,621.2	8.6	10.2	-85.85	726.3	-10,015.1	10,045.2	10,027.0	18.28	549.634		
2,400.0	2,400.0	2,700.0	2,699.1	8.9	10.5	-85.85	726.7	-10,013.0	10,042.7	10,023.8	18.89	531.717		
2,500.0	2,500.0	2,763.7	2,762.7	9.2	10.7	-85.85	727.0	-10,011.6	10,040.3	10,020.9	19.45	516.181		
2,600.0	2,600.0	2,876.9	2,875.9	9.6	11.1	-114.06	727.8	-10,009.0	10,038.9	10,018.7	20.19	497.209		
2,668.2	2,668.1	2,951.5	2,950.5	9.8	11.3	-114.08	728.4	-10,007.2	10,038.5	10,017.9	20.68	485.339		
2,700.0	2,699.8	2,983.2	2,982.2	9.9	11.4	-114.09	728.6	-10,006.4	10,038.6	10,017.7	20.90	480.254		
2,750.0	2,749.7	3,022.2	3,021.2	10.1	11.6	-114.09	728.7	-10,005.5	10,039.0	10,017.8	21.21	473.359		
2,800.0	2,799.5	3,055.6	3,054.6	10.2	11.7	-114.11	728.8	-10,004.7	10,039.7	10,018.2	21.49	467.101		
2,900.0	2,899.1	3,100.0	3,099.0	10.6	11.8	-114.13	728.8	-10,003.8	10,041.4	10,019.4	21.99	456.679		
3,000.0	2,998.7	3,178.1	3,177.1	10.9	12.1	-114.16	728.9	-10,002.5	10,043.3	10,020.7	22.60	444.401		
3,100.0	3,098.4	3,238.9	3,237.8	11.3	12.3	-114.19	729.0	-10,001.8	10,045.8	10,022.6	23.15	433.867		
3,200.0	3,198.0	3,302.5	3,301.4	11.6	12.5	-114.22	729.2	-10,001.3	10,048.6	10,024.8	23.72	423.626		
3,300.0	3,297.6	3,426.9	3,425.8	12.0	12.9	-114.27	729.8	-10,000.3	10,051.3	10,026.8	24.51	410.128		
3,400.0	3,397.2	3,500.0	3,498.9	12.3	13.2	-114.30	730.2	-9,999.7	10,054.2	10,029.1	25.11	400.358		
3,500.0	3,496.8	3,598.2	3,597.2	12.7	13.5	-114.34	730.5	-9,999.1	10,057.2	10,031.4	25.81	389.691		
3,600.0	3,596.4	3,712.1	3,711.0	13.0	13.9	-114.39	730.9	-9,998.3	10,060.1	10,033.6	26.56	378.791		
3,700.0	3,696.1	3,800.0	3,798.9	13.4	14.2	-114.43	731.1	-9,997.8	10,063.1	10,035.9	27.21	369.796		
3,800.0	3,795.7	3,919.8	3,918.7	13.7	14.6	-114.48	730.9	-9,996.9	10,066.0	10,038.1	27.97	359.894		
3,900.0	3,895.3	4,000.0	3,998.9	14.1	14.9	-114.52	730.7	-9,996.4	10,069.0	10,040.4	28.59	352.230		
4,000.0	3,994.9	4,082.3	4,081.2	14.4	15.2	-114.56	730.3	-9,996.0	10,072.1	10,042.9	29.21	344.833		
4,100.0	4,094.5	4,170.0	4,168.9	14.8	15.5	-114.60	730.1	-9,995.7	10,075.3	10,045.5	29.85	337.532		
4,200.0	4,194.2	4,277.3	4,276.2	15.1	15.8	-114.65	729.8	-9,995.3	10,078.6	10,048.1	30.56	329.813		
4,300.0	4,293.8	4,386.0	4,384.9	15.5	16.2	-114.70	729.5	-9,994.9	10,081.8	10,050.6	31.28	322.360		
4,400.0	4,393.4	4,480.7	4,479.6	15.8	16.5	-114.75	729.1	-9,994.4	10,085.0	10,053.1	31.94	315.717		
4,500.0	4,493.0	4,574.8	4,573.7	16.2	16.8	-114.79	728.3	-9,994.1	10,088.3	10,055.7	32.61	309.346		
4,600.0	4,592.6	4,658.4	4,657.3	16.5	17.1	-114.83	727.5	-9,993.9	10,091.6	10,058.4	33.25	303.540		
4,700.0	4,692.3	4,745.2	4,744.1	16.9	17.4	-114.88	726.8	-9,993.8	10,095.2	10,061.3	33.89	297.838		
4,800.0	4,791.9	4,842.7	4,841.6	17.2	17.7	-114.93	726.0	-9,993.8	10,098.8	10,064.2	34.58	292.025		
4,900.0	4,891.5	4,932.9	4,931.8	17.6	18.0	-114.97	725.1	-9,993.8	10,102.4	10,067.2	35.25	286.631		
5,000.0	4,991.1	5,011.3	5,010.2	17.9	18.3	-115.01	724.4	-9,993.9	10,106.2	10,070.4	35.87	281.748		
5,100.0	5,090.7	5,108.5	5,107.4	18.3	18.6	-115.06	723.6	-9,994.2	10,110.2	10,073.6	36.56	276.509		
5,200.0	5,190.4	5,200.0	5,198.9	18.7	18.9	-115.10	722.9	-9,994.5	10,114.2	10,076.9	37.24	271.604		
5,300.0	5,290.0	5,279.6	5,278.5	19.0	19.2	-115.14	722.3	-9,994.9	10,118.3	10,080.5	37.87	267.171		
5,400.0	5,389.6	5,396.4	5,395.2	19.4	19.6	-115.20	721.4	-9,995.5	10,122.5	10,083.9	38.64	261.973		
5,500.0	5,489.2	5,484.0	5,482.9	19.7	19.9	-115.24	720.8	-9,995.9	10,126.7	10,087.4	39.30	257.660		
5,600.0	5,588.8	5,558.9	5,557.8	20.1	20.1	-115.28	720.2	-9,996.4	10,131.0	10,091.1	39.92	253.788		
5,700.0	5,688.5	5,643.5	5,642.4	20.4	20.4	-115.32	719.7	-9,997.1	10,135.6	10,095.0	40.57	249.823		
5,800.0	5,788.1	5,806.1	5,805.0	20.8	21.0	-115.40	718.5	-9,998.2	10,140.1	10,098.5	41.50	244.316		
5,900.0	5,887.7	5,913.9	5,912.8	21.2	21.3	-115.45	717.8	-9,998.5	10,144.0	10,101.8	42.24	240.168		
6,000.0	5,987.3	6,016.1	6,014.9	21.5	21.7	-115.50	717.4	-9,998.7	10,148.0	10,105.0	42.95	236.273		
6,100.0	6,086.9	6,198.3	6,197.2	21.9	22.3	-115.59	715.8	-9,998.1	10,151.3	10,107.3	43.93	231.061		
6,200.0	6,186.6	7,728.0	7,686.9	22.2	26.6	-117.08	566.0	-9,893.1	10,149.8	10,101.7	48.07	211.142		
6,300.0	6,286.2	7,728.0	7,686.9	22.6	26.6	-117.08	566.0	-9,893.1	10,139.8	10,091.3	48.47	209.185		
6,400.0	6,385.8	7,728.0	7,686.9	22.9	26.6	-117.08	566.0	-9,893.1	10,130.8	10,081.9	48.87	207.293		
6,500.0	6,485.4	7,761.0	7,713.1	23.3	26.6	-117.20	546.1	-9,890.5	10,122.7	10,073.4	49.32	205.255		
6,600.0	6,585.0	7,761.0	7,713.1	23.7	26.6	-117.20	546.1	-9,890.5	10,115.4	10,065.7	49.71	203.483		
6,700.0	6,684.7	7,761.0	7,713.1	24.0	26.6	-117.20	546.1	-9,890.5	10,109.1	10,059.0	50.10	201.771		
6,748.3	6,732.7	7,872.6	7,790.6	24.2	26.7	-117.68	466.4	-9,884.1	10,106.1	10,055.6	50.45	200.306		
6,800.0	6,784.3	7,888.0	7,799.8	24.4	26.7	-117.73	454.1	-9,883.4	10,103.0	10,052.4	50.68	199.332		
6,900.0	6,884.0	7,888.0	7,799.8	24.7	26.7	-117.68	454.1	-9,883.4	10,097.1	10,046.0	51.07	197.707		

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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	
7,000.0	6,983.9	7,888.0	7,799.8	25.1	26.7	-117.63	454.1	-9,883.4	10,091.3	10,039.9	51.45	196.127	
7,100.0	7,083.9	7,907.0	7,810.6	25.4	26.7	-117.67	438.5	-9,882.8	10,085.7	10,033.8	51.88	194.419	
7,200.0	7,183.8	7,920.0	7,817.5	25.8	26.8	-117.68	427.5	-9,882.5	10,080.2	10,027.9	52.28	192.808	
7,248.3	7,232.1	7,920.0	7,817.5	26.0	26.8	-89.48	427.5	-9,882.5	10,077.5	10,025.1	52.46	192.102	
7,300.0	7,283.8	7,920.0	7,817.5	26.2	26.8	-89.48	427.5	-9,882.5	10,074.9	10,022.2	52.65	191.358	
7,400.0	7,383.8	8,300.0	7,906.1	26.5	28.3	-91.56	62.6	-9,875.0	10,070.2	10,015.5	54.74	183.972	
7,500.0	7,483.8	8,300.0	7,906.1	26.9	28.3	-91.56	62.6	-9,875.0	10,065.9	10,010.8	55.10	182.674	
7,558.8	7,542.6	8,300.0	7,906.1	27.1	28.3	-91.56	62.6	-9,875.0	10,063.9	10,008.6	55.32	181.933	
7,575.0	7,558.8	8,300.0	7,906.1	27.1	28.3	-1.42	62.6	-9,875.0	10,063.1	10,007.7	55.37	181.732	
7,600.0	7,583.8	8,300.0	7,906.1	27.2	28.3	-1.43	62.6	-9,875.0	10,060.9	10,005.4	55.46	181.415	
7,625.0	7,608.6	8,300.0	7,906.1	27.3	28.3	-1.44	62.6	-9,875.0	10,057.4	10,001.9	55.54	181.080	
7,650.0	7,633.3	8,300.0	7,906.1	27.4	28.3	-1.45	62.6	-9,875.0	10,052.7	9,997.1	55.62	180.728	
7,675.0	7,657.7	8,300.0	7,906.1	27.5	28.3	-1.47	62.6	-9,875.0	10,046.8	9,991.1	55.70	180.362	
7,700.0	7,681.8	8,300.0	7,906.1	27.5	28.3	-1.49	62.6	-9,875.0	10,039.7	9,983.9	55.78	179.982	
7,725.0	7,705.5	8,300.0	7,906.1	27.6	28.3	-1.52	62.6	-9,875.0	10,031.3	9,975.5	55.86	179.590	
7,750.0	7,728.8	8,300.0	7,906.1	27.7	28.3	-1.55	62.6	-9,875.0	10,021.9	9,965.9	55.93	179.187	
7,775.0	7,751.5	8,300.0	7,906.1	27.8	28.3	-1.59	62.6	-9,875.0	10,011.2	9,955.2	56.00	178.775	
7,800.0	7,773.7	8,300.0	7,906.1	27.8	28.3	-1.64	62.6	-9,875.0	9,999.5	9,943.4	56.07	178.354	
7,825.0	7,795.3	8,300.0	7,906.1	27.9	28.3	-1.69	62.6	-9,875.0	9,986.7	9,930.5	56.13	177.925	
7,850.0	7,816.1	8,300.0	7,906.1	28.0	28.3	-1.75	62.6	-9,875.0	9,972.8	9,916.6	56.19	177.490	
7,875.0	7,836.2	8,300.0	7,906.1	28.1	28.3	-1.82	62.6	-9,875.0	9,957.9	9,901.6	56.24	177.050	
7,900.0	7,855.5	8,300.0	7,906.1	28.1	28.3	-1.90	62.6	-9,875.0	9,941.9	9,885.6	56.29	176.604	
7,925.0	7,874.0	8,300.0	7,906.1	28.2	28.3	-1.99	62.6	-9,875.0	9,925.1	9,868.7	56.34	176.155	
7,950.0	7,891.5	8,300.0	7,906.1	28.3	28.3	-2.10	62.6	-9,875.0	9,907.3	9,850.9	56.39	175.703	
7,975.0	7,908.1	8,300.0	7,906.1	28.3	28.3	-2.23	62.6	-9,875.0	9,888.7	9,832.2	56.43	175.248	
8,000.0	7,923.7	8,300.0	7,906.1	28.4	28.3	-2.38	62.6	-9,875.0	9,869.2	9,812.7	56.46	174.792	
8,025.0	7,938.2	8,300.0	7,906.1	28.4	28.3	-2.56	62.6	-9,875.0	9,849.0	9,792.5	56.49	174.334	
8,050.0	7,951.6	8,300.0	7,906.1	28.5	28.3	-2.77	62.6	-9,875.0	9,828.0	9,771.5	56.52	173.876	
8,075.0	7,964.0	8,300.0	7,906.1	28.6	28.3	-3.03	62.6	-9,875.0	9,806.4	9,749.8	56.55	173.418	
8,100.0	7,975.1	8,300.0	7,906.1	28.6	28.3	-3.36	62.6	-9,875.0	9,784.2	9,727.6	56.57	172.960	
8,125.0	7,985.1	8,300.0	7,906.1	28.7	28.3	-3.77	62.6	-9,875.0	9,761.4	9,704.8	56.59	172.503	
8,150.0	7,993.9	8,300.0	7,906.1	28.7	28.3	-4.31	62.6	-9,875.0	9,738.1	9,681.5	56.60	172.047	
8,175.0	8,001.4	8,300.0	7,906.1	28.8	28.3	-5.05	62.6	-9,875.0	9,714.4	9,657.8	56.61	171.592	
8,200.0	8,007.7	8,300.0	7,906.1	28.8	28.3	-6.10	62.6	-9,875.0	9,690.3	9,633.7	56.62	171.138	
8,225.0	8,012.7	8,300.0	7,906.1	28.9	28.3	-7.73	62.6	-9,875.0	9,665.9	9,609.2	56.63	170.687	
8,250.0	8,016.5	8,300.0	7,906.1	28.9	28.3	-10.56	62.6	-9,875.0	9,641.2	9,584.6	56.63	170.237	
8,275.0	8,018.9	8,300.0	7,906.1	29.0	28.3	-16.62	62.6	-9,875.0	9,616.4	9,559.8	56.64	169.788	
8,300.0	8,020.0	8,300.0	7,906.1	29.0	28.3	-36.86	62.6	-9,875.0	9,591.5	9,534.8	56.64	169.341	
8,312.7	8,020.0	8,300.0	7,906.1	29.0	28.3	-72.89	62.6	-9,875.0	9,578.7	9,522.1	56.64	169.114	
8,400.0	8,019.3	8,300.0	7,906.1	29.2	28.3	-72.89	62.6	-9,875.0	9,491.5	9,434.8	56.64	167.562	
8,500.0	8,018.5	8,300.0	7,906.1	29.4	28.3	-72.89	62.6	-9,875.0	9,391.5	9,334.9	56.65	165.781	
8,600.0	8,017.7	8,300.0	7,906.1	29.7	28.3	-72.89	62.6	-9,875.0	9,291.6	9,234.9	56.66	163.997	
8,700.0	8,016.8	8,300.0	7,906.1	30.0	28.3	-72.89	62.6	-9,875.0	9,191.6	9,134.9	56.66	162.211	
8,800.0	8,016.0	8,300.0	7,906.1	30.3	28.3	-72.89	62.6	-9,875.0	9,091.6	9,035.0	56.67	160.423	
8,900.0	8,015.2	8,300.0	7,906.1	30.7	28.3	-72.89	62.6	-9,875.0	8,991.7	8,935.0	56.68	158.632	
9,000.0	8,014.3	8,300.0	7,906.1	31.1	28.3	-72.89	62.6	-9,875.0	8,891.7	8,835.0	56.69	156.839	
9,100.0	8,013.5	8,300.0	7,906.1	31.5	28.3	-72.89	62.6	-9,875.0	8,791.8	8,735.1	56.71	155.044	
9,200.0	8,012.7	8,300.0	7,906.1	32.0	28.3	-72.89	62.6	-9,875.0	8,691.8	8,635.1	56.72	153.247	
9,300.0	8,011.9	8,300.0	7,906.1	32.5	28.3	-72.89	62.6	-9,875.0	8,591.9	8,535.1	56.73	151.448	
9,400.0	8,011.0	8,300.0	7,906.1	33.0	28.3	-72.89	62.6	-9,875.0	8,491.9	8,435.2	56.75	149.647	
9,500.0	8,010.2	8,300.0	7,906.1	33.6	28.3	-72.89	62.6	-9,875.0	8,392.0	8,335.2	56.76	147.845	
9,600.0	8,009.4	8,300.0	7,906.1	34.2	28.3	-72.89	62.6	-9,875.0	8,292.0	8,235.2	56.78	146.040	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MOODY ST COM PROJECT - MOODY 18 STATE COM #1H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7347-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,700.0	8,008.5	8,300.0	7,906.1	34.8	28.3	-72.89	62.6	-9,875.0	8,192.1	8,135.3	56.80	144.235	
9,800.0	8,007.7	8,300.0	7,906.1	35.5	28.3	-72.89	62.6	-9,875.0	8,092.1	8,035.3	56.82	142.427	
9,900.0	8,006.9	8,300.0	7,906.1	36.1	28.3	-72.89	62.6	-9,875.0	7,992.2	7,935.3	56.84	140.619	
10,000.0	8,006.1	8,300.0	7,906.1	36.8	28.3	-72.89	62.6	-9,875.0	7,892.2	7,835.4	56.86	138.809	
10,100.0	8,005.2	8,300.0	7,906.1	37.5	28.3	-72.89	62.6	-9,875.0	7,792.3	7,735.4	56.88	136.998	
10,200.0	8,004.4	8,300.0	7,906.1	38.2	28.3	-72.89	62.6	-9,875.0	7,692.3	7,635.4	56.90	135.186	
10,300.0	8,003.6	8,300.0	7,906.1	39.0	28.3	-72.89	62.6	-9,875.0	7,592.4	7,535.5	56.93	133.373	
10,400.0	8,002.7	8,300.0	7,906.1	39.7	28.3	-72.89	62.6	-9,875.0	7,492.4	7,435.5	56.95	131.559	
10,500.0	8,001.9	8,300.0	7,906.1	40.5	28.3	-72.89	62.6	-9,875.0	7,392.5	7,335.5	56.98	129.744	
10,600.0	8,001.1	8,300.0	7,906.1	41.3	28.3	-72.89	62.6	-9,875.0	7,292.6	7,235.6	57.01	127.928	
10,700.0	8,000.2	8,300.0	7,906.1	42.1	28.3	-72.89	62.6	-9,875.0	7,192.6	7,135.6	57.03	126.112	
10,800.0	7,999.4	8,300.0	7,906.1	42.9	28.3	-72.89	62.6	-9,875.0	7,092.7	7,035.6	57.06	124.295	
10,900.0	7,998.6	8,300.0	7,906.1	43.8	28.3	-72.89	62.6	-9,875.0	6,992.8	6,935.7	57.09	122.478	
11,000.0	7,997.8	8,300.0	7,906.1	44.6	28.3	-72.89	62.6	-9,875.0	6,892.8	6,835.7	57.13	120.660	
11,100.0	7,996.9	8,300.0	7,906.1	45.5	28.3	-72.89	62.6	-9,875.0	6,792.9	6,735.8	57.16	118.842	
11,200.0	7,996.1	8,300.0	7,906.1	46.4	28.3	-72.89	62.6	-9,875.0	6,693.0	6,635.8	57.19	117.024	
11,300.0	7,995.3	8,300.0	7,906.1	47.2	28.3	-72.89	62.6	-9,875.0	6,593.1	6,535.8	57.23	115.206	
11,400.0	7,994.4	8,300.0	7,906.1	48.1	28.3	-72.89	62.6	-9,875.0	6,493.1	6,435.9	57.27	113.388	
11,500.0	7,993.6	8,300.0	7,906.1	49.0	28.3	-72.89	62.6	-9,875.0	6,393.2	6,335.9	57.30	111.569	
11,600.0	7,992.8	8,300.0	7,906.1	49.9	28.3	-72.89	62.6	-9,875.0	6,293.3	6,236.0	57.34	109.751	
11,700.0	7,992.0	8,300.0	7,906.1	50.9	28.3	-72.89	62.6	-9,875.0	6,193.4	6,136.0	57.38	107.933	
11,800.0	7,991.1	8,300.0	7,906.1	51.8	28.3	-72.89	62.6	-9,875.0	6,093.5	6,036.1	57.42	106.116	
11,900.0	7,990.3	8,300.0	7,906.1	52.7	28.3	-72.89	62.6	-9,875.0	5,993.6	5,936.1	57.47	104.299	
12,000.0	7,989.5	8,300.0	7,906.1	53.7	28.3	-72.89	62.6	-9,875.0	5,893.7	5,836.2	57.51	102.482	
12,100.0	7,988.6	8,300.0	7,906.1	54.6	28.3	-72.89	62.6	-9,875.0	5,793.8	5,736.2	57.55	100.666	
12,200.0	7,987.8	8,300.0	7,906.1	55.6	28.3	-72.89	62.6	-9,875.0	5,693.9	5,636.3	57.60	98.850	
12,300.0	7,987.0	8,300.0	7,906.1	56.5	28.3	-72.89	62.6	-9,875.0	5,594.0	5,536.3	57.65	97.035	
12,400.0	7,986.1	8,300.0	7,906.1	57.5	28.3	-72.89	62.6	-9,875.0	5,494.1	5,436.4	57.70	95.221	
12,500.0	7,985.3	8,300.0	7,906.1	58.4	28.3	-72.89	62.6	-9,875.0	5,394.2	5,336.5	57.75	93.408	
12,600.0	7,984.5	8,300.0	7,906.1	59.4	28.3	-72.89	62.6	-9,875.0	5,294.3	5,236.5	57.80	91.595	
12,700.0	7,983.7	8,300.0	7,906.1	60.4	28.3	-72.89	62.6	-9,875.0	5,194.4	5,136.6	57.85	89.784	
12,800.0	7,982.8	8,300.0	7,906.1	61.4	28.3	-72.89	62.6	-9,875.0	5,094.6	5,036.7	57.91	87.974	
12,900.0	7,982.0	8,300.0	7,906.1	62.4	28.3	-72.89	62.6	-9,875.0	4,994.7	4,936.7	57.97	86.164	
13,000.0	7,981.2	8,300.0	7,906.1	63.4	28.3	-72.89	62.6	-9,875.0	4,894.8	4,836.8	58.03	84.356	
13,100.0	7,980.3	8,300.0	7,906.1	64.4	28.3	-72.89	62.6	-9,875.0	4,795.0	4,736.9	58.09	82.549	
13,200.0	7,979.5	8,300.0	7,906.1	65.4	28.3	-72.89	62.6	-9,875.0	4,695.1	4,637.0	58.15	80.743	
13,300.0	7,978.7	8,300.0	7,906.1	66.4	28.3	-72.89	62.6	-9,875.0	4,595.3	4,537.1	58.21	78.939	
13,400.0	7,977.9	8,300.0	7,906.1	67.4	28.3	-72.89	62.6	-9,875.0	4,495.5	4,437.2	58.28	77.136	
13,500.0	7,977.0	8,300.0	7,906.1	68.4	28.3	-72.89	62.6	-9,875.0	4,395.6	4,337.3	58.35	75.334	
13,600.0	7,976.2	8,287.8	7,906.2	69.4	28.3	-72.10	74.8	-9,875.7	4,295.7	4,237.4	58.32	73.664	
13,700.0	7,975.4	8,286.5	7,906.2	70.4	28.3	-72.01	76.1	-9,875.7	4,195.9	4,137.5	58.38	71.878	
13,800.0	7,974.5	8,285.1	7,906.2	71.4	28.2	-71.91	77.5	-9,875.8	4,096.1	4,037.7	58.44	70.095	
13,900.0	7,973.7	8,283.7	7,906.2	72.5	28.2	-71.81	78.9	-9,875.9	3,996.3	3,937.8	58.50	68.313	
14,000.0	7,972.9	8,031.8	7,862.5	73.5	27.0	6.68	325.5	-9,881.9	3,896.4	3,839.5	56.84	68.546	
14,100.0	7,972.0	8,032.7	7,862.7	74.5	27.0	6.32	324.7	-9,881.9	3,796.4	3,739.5	56.90	66.722	
14,200.0	7,971.2	8,033.5	7,863.0	75.5	27.0	5.96	323.9	-9,881.9	3,696.5	3,639.5	56.96	64.901	
14,300.0	7,970.4	8,034.4	7,863.3	76.6	27.0	5.59	323.1	-9,881.9	3,596.5	3,539.5	57.01	63.083	
14,400.0	7,969.6	8,035.2	7,863.5	77.6	27.0	5.21	322.2	-9,881.9	3,496.6	3,439.5	57.07	61.268	
14,500.0	7,968.7	8,036.1	7,863.8	78.6	27.0	4.82	321.4	-9,881.9	3,396.7	3,339.5	57.13	59.456	
14,600.0	7,967.9	8,037.0	7,864.1	79.7	27.0	4.42	320.6	-9,882.0	3,296.7	3,239.5	57.19	57.646	
14,700.0	7,967.1	8,037.9	7,864.4	80.7	27.0	4.02	319.7	-9,882.0	3,196.8	3,139.5	57.25	55.839	
14,800.0	7,966.2	8,038.8	7,864.6	81.8	27.0	3.60	318.8	-9,882.0	3,096.9	3,039.6	57.31	54.036	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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									
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
14,900.0	7,965.4	8,039.8	7,864.9	82.8	27.0	3.18	317.9	-9,882.0	2,996.9	2,939.6	57.37	52.236	
15,000.0	7,964.6	8,040.7	7,865.2	83.9	27.0	2.75	317.0	-9,882.0	2,897.0	2,839.6	57.44	50.438	
15,100.0	7,963.8	8,041.7	7,865.5	84.9	27.0	2.30	316.1	-9,882.0	2,797.1	2,739.6	57.50	48.644	
15,200.0	7,962.9	8,047.0	7,867.1	86.0	27.0	-0.18	311.0	-9,882.1	2,697.2	2,639.6	57.59	46.836	
15,300.0	7,962.1	8,047.0	7,867.1	87.0	27.0	-0.18	311.0	-9,882.1	2,597.3	2,539.6	57.65	45.053	
15,400.0	7,961.3	8,047.0	7,867.1	88.1	27.0	-0.18	311.0	-9,882.1	2,497.4	2,439.7	57.71	43.273	
15,500.0	7,960.4	8,047.0	7,867.1	89.1	27.0	-0.18	311.0	-9,882.1	2,397.5	2,339.7	57.78	41.496	
15,600.0	7,959.6	8,047.0	7,867.1	90.2	27.0	-0.18	311.0	-9,882.1	2,297.6	2,239.8	57.84	39.723	
15,700.0	7,958.8	8,047.0	7,867.1	91.2	27.0	-0.18	311.0	-9,882.1	2,197.8	2,139.9	57.91	37.953	
15,800.0	7,957.9	8,047.0	7,867.1	92.3	27.0	-0.18	311.0	-9,882.1	2,097.9	2,039.9	57.98	36.186	
15,900.0	7,957.1	8,047.0	7,867.1	93.4	27.0	-0.18	311.0	-9,882.1	1,998.1	1,940.0	58.05	34.422	
16,000.0	7,956.3	8,051.3	7,868.4	94.4	27.0	-2.24	306.9	-9,882.2	1,898.2	1,840.1	58.14	32.649	
16,100.0	7,955.5	8,052.5	7,868.7	95.5	27.0	-2.82	305.8	-9,882.2	1,798.4	1,740.2	58.22	30.888	
16,200.0	7,954.6	8,053.7	7,869.1	96.6	27.0	-3.41	304.6	-9,882.2	1,698.6	1,640.3	58.31	29.132	
16,300.0	7,953.8	8,054.9	7,869.4	97.6	27.1	-4.02	303.4	-9,882.2	1,598.9	1,540.5	58.40	27.379	
16,400.0	7,953.0	8,056.2	7,869.8	98.7	27.1	-4.64	302.2	-9,882.2	1,499.1	1,440.7	58.49	25.629	
16,500.0	7,952.1	8,057.5	7,870.2	99.8	27.1	-5.28	301.0	-9,882.3	1,399.5	1,340.9	58.60	23.883	
16,600.0	7,951.3	8,058.8	7,870.5	100.8	27.1	-5.93	299.8	-9,882.3	1,299.8	1,241.1	58.71	22.139	
16,700.0	7,950.5	8,060.1	7,870.9	101.9	27.1	-6.60	298.5	-9,882.3	1,200.2	1,141.4	58.84	20.399	
16,800.0	7,949.7	8,061.5	7,871.3	103.0	27.1	-7.28	297.2	-9,882.3	1,100.7	1,041.7	58.98	18.661	
16,900.0	7,948.8	8,062.9	7,871.7	104.0	27.1	-7.98	295.8	-9,882.4	1,001.3	942.1	59.15	16.926	
17,000.0	7,948.0	8,064.3	7,872.1	105.1	27.1	-8.70	294.5	-9,882.4	902.0	842.6	59.37	15.192	
17,100.0	7,947.2	8,065.7	7,872.5	106.2	27.1	-9.43	293.1	-9,882.4	802.8	743.2	59.65	13.460	
17,200.0	7,946.3	8,067.2	7,872.9	107.3	27.1	-10.18	291.7	-9,882.4	703.9	643.9	60.03	11.727	
17,300.0	7,945.5	8,068.7	7,873.3	108.3	27.1	-10.95	290.3	-9,882.5	605.4	544.8	60.58	9.993	
17,400.0	7,944.7	8,070.2	7,873.8	109.4	27.1	-11.73	288.8	-9,882.5	507.4	446.0	61.46	8.257	
17,500.0	7,943.8	8,071.8	7,874.2	110.5	27.1	-12.54	287.3	-9,882.5	410.4	347.5	62.96	6.519	
17,600.0	7,943.0	8,073.4	7,874.7	111.6	27.1	-13.36	285.8	-9,882.5	315.3	249.5	65.81	4.791	
17,700.0	7,942.2	8,075.0	7,875.1	112.6	27.1	-14.20	284.2	-9,882.6	224.5	152.6	71.84	3.125	
17,800.0	7,941.4	8,076.7	7,875.6	113.7	27.1	-15.06	282.6	-9,882.6	146.1	61.5	84.63	1.726 Advise and Monitor	
17,895.2	7,940.6	8,078.0	7,875.9	114.8	27.1	-15.75	281.3	-9,882.6	110.8	14.1	96.74	1.145 Shut in Produces, CC, ES, SF	
17,900.0	7,940.5	8,078.0	7,875.9	114.8	27.1	-15.75	281.3	-9,882.6	110.9	14.1	96.83	1.145 Shut in Produces	
17,963.7	7,940.0	8,078.0	7,875.9	115.5	27.1	-15.75	281.3	-9,882.6	130.2	38.1	92.10	1.414 Shut in Produces	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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-Standard Keeper 104, 7573-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	179.48	-30.0	0.3	30.0				
100.0	100.0	99.0	99.0	3.0	3.0	179.48	-30.0	0.3	30.0	24.0	6.00	4.996	
200.0	200.0	199.0	199.0	3.0	3.0	179.48	-30.0	0.3	30.0	23.9	6.04	4.962	
300.0	300.0	299.0	299.0	3.1	3.0	179.48	-30.0	0.3	30.0	23.9	6.13	4.891	
400.0	400.0	399.0	399.0	3.2	3.0	179.48	-30.0	0.3	30.0	23.7	6.26	4.788	
500.0	500.0	499.0	499.0	3.4	3.1	179.48	-30.0	0.3	30.0	23.6	6.44	4.661	
600.0	600.0	599.0	599.0	3.6	3.1	179.48	-30.0	0.3	30.0	23.3	6.64	4.515	
700.0	700.0	699.0	699.0	3.8	3.1	179.48	-30.0	0.3	30.0	23.1	6.88	4.359	
800.0	800.0	799.0	799.0	4.0	3.2	179.48	-30.0	0.3	30.0	22.8	7.14	4.198	
900.0	900.0	899.0	899.0	4.2	3.2	179.48	-30.0	0.3	30.0	22.6	7.43	4.035	
1,000.0	1,000.0	999.0	999.0	4.5	3.2	179.48	-30.0	0.3	30.0	22.3	7.74	3.874	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	3.3	179.48	-30.0	0.3	30.0	21.9	8.07	3.718	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	3.4	179.48	-30.0	0.3	30.0	21.6	8.41	3.567	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	3.4	179.48	-30.0	0.3	30.0	21.2	8.76	3.423	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	3.5	179.48	-30.0	0.3	30.0	20.9	9.13	3.286	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	3.5	179.48	-30.0	0.3	30.0	20.5	9.50	3.157	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	3.6	179.48	-30.0	0.3	30.0	20.1	9.89	3.034	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	3.7	179.48	-30.0	0.3	30.0	19.7	10.28	2.918	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	3.8	179.48	-30.0	0.3	30.0	19.3	10.68	2.809	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	3.9	179.48	-30.0	0.3	30.0	18.9	11.08	2.706	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	3.9	179.48	-30.0	0.3	30.0	18.5	11.49	2.609	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	4.0	179.48	-30.0	0.3	30.0	18.1	11.91	2.518	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	4.1	179.48	-30.0	0.3	30.0	17.7	12.33	2.432	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	4.2	179.48	-30.0	0.3	30.0	17.2	12.76	2.351	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	4.3	179.48	-30.0	0.3	30.0	16.8	13.19	2.274	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	4.4	179.48	-30.0	0.3	30.0	16.4	13.62	2.202 CC, ES, SF	
2,600.0	2,600.0	2,597.9	2,597.9	9.6	4.4	152.48	-31.7	0.4	33.2	19.2	13.98	2.375	
2,700.0	2,699.8	2,696.1	2,695.9	9.9	4.4	154.91	-36.7	0.9	43.0	28.7	14.27	3.013	
2,750.0	2,749.7	2,744.7	2,744.4	10.1	4.4	156.11	-40.4	1.2	50.3	35.9	14.41	3.494	
2,800.0	2,799.5	2,794.0	2,793.5	10.2	4.4	157.13	-44.7	1.6	58.6	44.0	14.56	4.026	
2,900.0	2,899.1	2,892.6	2,891.7	10.6	4.3	158.51	-53.2	2.3	75.2	60.3	14.87	5.057	
3,000.0	2,998.7	2,991.2	2,989.9	10.9	4.3	159.38	-61.8	3.1	91.8	76.6	15.18	6.047	
3,100.0	3,098.4	3,089.8	3,088.2	11.3	4.3	159.99	-70.4	3.8	108.4	92.9	15.50	6.994	
3,200.0	3,198.0	3,188.4	3,186.4	11.6	4.3	160.44	-78.9	4.6	125.0	109.2	15.82	7.901	
3,300.0	3,297.6	3,287.0	3,284.6	12.0	4.3	160.78	-87.5	5.3	141.6	125.5	16.15	8.770	
3,400.0	3,397.2	3,385.6	3,382.8	12.3	4.2	161.05	-96.0	6.0	158.3	141.8	16.49	9.600	
3,500.0	3,496.8	3,484.2	3,481.1	12.7	4.2	161.27	-104.6	6.8	174.9	158.1	16.83	10.396	
3,600.0	3,596.4	3,582.8	3,579.3	13.0	4.2	161.45	-113.2	7.5	191.6	174.4	17.17	11.156	
3,700.0	3,696.1	3,681.4	3,677.5	13.4	4.2	161.60	-121.7	8.3	208.2	190.7	17.52	11.884	
3,800.0	3,795.7	3,780.0	3,775.8	13.7	4.2	161.73	-130.3	9.0	224.8	207.0	17.87	12.581	
3,900.0	3,895.3	3,878.6	3,874.0	14.1	4.3	161.84	-138.8	9.8	241.5	223.2	18.23	13.247	
4,000.0	3,994.9	3,977.2	3,972.2	14.4	4.3	161.94	-147.4	10.5	258.1	239.5	18.59	13.884	
4,100.0	4,094.5	4,075.8	4,070.5	14.8	4.3	162.03	-156.0	11.3	274.8	255.8	18.96	14.494	
4,200.0	4,194.2	4,174.4	4,168.7	15.1	4.3	162.10	-164.5	12.0	291.4	272.1	19.33	15.078	
4,300.0	4,293.8	4,273.0	4,266.9	15.5	4.3	162.17	-173.1	12.8	308.0	288.3	19.70	15.636	
4,400.0	4,393.4	4,371.6	4,365.1	15.8	4.4	162.23	-181.6	13.5	324.7	304.6	20.08	16.171	
4,500.0	4,493.0	4,470.2	4,463.4	16.2	4.4	162.28	-190.2	14.3	341.3	320.9	20.46	16.683	
4,600.0	4,592.6	4,568.8	4,561.6	16.5	4.4	162.33	-198.8	15.0	358.0	337.1	20.85	17.173	
4,700.0	4,692.3	4,667.4	4,659.8	16.9	4.5	162.38	-207.3	15.8	374.6	353.4	21.24	17.642	
4,800.0	4,791.9	4,766.0	4,758.1	17.2	4.6	162.42	-215.9	16.5	391.3	369.6	21.63	18.091	
4,900.0	4,891.5	4,864.7	4,856.3	17.6	4.6	162.46	-224.5	17.3	407.9	385.9	22.02	18.521	
5,000.0	4,991.1	4,963.3	4,954.5	17.9	4.7	162.49	-233.0	18.0	424.6	402.1	22.42	18.934	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7573-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,090.7	5,061.9	5,052.7	18.3	4.8	162.53	-241.6	18.8	441.2	418.4	22.83	19.329	
5,200.0	5,190.4	5,160.5	5,151.0	18.7	4.8	162.56	-250.1	19.5	457.8	434.6	23.23	19.708	
5,300.0	5,290.0	5,259.1	5,249.2	19.0	4.9	162.58	-258.7	20.3	474.5	450.9	23.64	20.071	
5,400.0	5,389.6	5,357.7	5,347.4	19.4	5.0	162.61	-267.3	21.0	491.1	467.1	24.05	20.420	
5,500.0	5,489.2	5,456.3	5,445.7	19.7	5.0	162.63	-275.8	21.8	507.8	483.3	24.47	20.754	
5,600.0	5,588.8	5,554.9	5,543.9	20.1	5.1	162.66	-284.4	22.5	524.4	499.5	24.88	21.075	
5,700.0	5,688.5	5,653.5	5,642.1	20.4	5.2	162.68	-292.9	23.3	541.1	515.8	25.30	21.384	
5,800.0	5,788.1	5,752.1	5,740.4	20.8	5.2	162.70	-301.5	24.0	557.7	532.0	25.73	21.680	
5,900.0	5,887.7	5,850.7	5,838.6	21.2	5.3	162.72	-310.1	24.8	574.4	548.2	26.15	21.964	
6,000.0	5,987.3	5,949.3	5,936.8	21.5	5.4	162.74	-318.6	25.5	591.0	564.4	26.58	22.238	
6,100.0	6,086.9	6,047.9	6,035.0	21.9	5.5	162.75	-327.2	26.3	607.7	580.7	27.01	22.501	
6,200.0	6,186.6	6,146.5	6,133.3	22.2	5.6	162.77	-335.7	27.0	624.3	596.9	27.44	22.754	
6,300.0	6,286.2	6,245.1	6,231.5	22.6	5.6	162.78	-344.3	27.8	641.0	613.1	27.87	22.998	
6,400.0	6,385.8	6,343.7	6,329.7	22.9	5.7	162.80	-352.9	28.5	657.6	629.3	28.31	23.232	
6,500.0	6,485.4	6,442.3	6,428.0	23.3	5.8	162.81	-361.4	29.3	674.2	645.5	28.74	23.458	
6,600.0	6,585.0	6,540.9	6,526.2	23.7	5.9	162.82	-370.0	30.0	690.9	661.7	29.18	23.676	
6,700.0	6,684.7	6,639.5	6,624.4	24.0	6.0	162.84	-378.6	30.8	707.5	677.9	29.62	23.886	
6,748.3	6,732.7	6,687.1	6,671.8	24.2	6.0	162.84	-382.7	31.1	715.6	685.7	29.83	23.985	
6,800.0	6,784.3	6,738.2	6,722.7	24.4	6.0	162.87	-387.1	31.5	724.0	693.9	30.06	24.081	
6,900.0	6,884.0	6,837.0	6,821.2	24.7	6.1	162.88	-395.7	32.3	738.9	708.4	30.51	24.222	
7,000.0	6,983.9	6,936.2	6,919.9	25.1	6.2	162.85	-404.3	33.0	752.3	721.3	30.95	24.305	
7,100.0	7,083.9	7,035.5	7,018.8	25.4	6.3	162.78	-412.9	33.8	763.9	732.5	31.39	24.333	
7,200.0	7,183.8	7,134.9	7,117.9	25.8	6.4	162.67	-421.6	34.5	773.9	742.1	31.84	24.307	
7,248.3	7,232.1	7,183.0	7,165.8	26.0	6.4	-169.21	-425.7	34.9	778.2	746.1	32.05	24.277	
7,300.0	7,283.8	7,234.5	7,217.2	26.2	6.5	-169.30	-430.2	35.3	782.5	750.2	32.29	24.238	
7,400.0	7,383.8	7,334.2	7,316.4	26.5	6.6	-169.48	-438.9	36.0	790.9	758.2	32.73	24.163	
7,500.0	7,483.8	7,433.8	7,415.6	26.9	6.7	-169.64	-447.5	36.8	799.3	766.1	33.18	24.090	
7,558.8	7,542.6	7,492.3	7,474.0	27.1	6.7	-169.74	-452.6	37.2	804.3	770.8	33.44	24.048	
7,575.0	7,558.8	7,508.5	7,490.1	27.1	6.7	-79.49	-454.0	37.4	805.6	772.1	33.51	24.039	
7,600.0	7,583.8	7,533.3	7,514.8	27.2	6.7	-79.42	-456.2	37.6	807.4	773.8	33.61	24.025	
7,625.0	7,608.6	7,558.1	7,539.4	27.3	6.8	-79.46	-458.3	37.7	809.0	775.3	33.70	24.006	
7,650.0	7,633.3	7,575.0	7,556.3	27.4	6.8	-79.51	-459.8	37.9	810.4	776.7	33.76	24.005	
7,675.0	7,657.7	7,589.8	7,571.1	27.5	6.8	-79.55	-461.2	37.7	811.9	778.1	33.81	24.016	
7,700.0	7,681.8	7,600.0	7,581.2	27.5	6.8	-79.53	-462.3	37.4	813.6	779.8	33.84	24.046	
7,725.0	7,705.5	7,613.5	7,594.6	27.6	6.8	-79.57	-463.9	36.7	815.5	781.6	33.88	24.072	
7,750.0	7,728.8	7,625.0	7,605.9	27.7	6.8	-79.58	-465.4	35.8	817.5	783.6	33.91	24.109	
7,775.0	7,751.5	7,636.9	7,617.7	27.8	6.8	-79.60	-467.2	34.6	819.7	785.8	33.94	24.150	
7,800.0	7,773.7	7,650.0	7,630.5	27.8	6.8	-79.65	-469.2	33.0	822.2	788.2	33.98	24.193	
7,825.0	7,795.3	7,660.1	7,640.3	27.9	6.8	-79.62	-470.9	31.6	824.8	790.7	34.01	24.250	
7,850.0	7,816.1	7,675.0	7,654.8	28.0	6.8	-79.74	-473.5	29.2	827.6	793.5	34.06	24.298	
7,875.0	7,836.2	7,682.9	7,662.4	28.1	6.8	-79.63	-475.0	27.7	830.6	796.5	34.08	24.372	
7,900.0	7,855.5	7,700.0	7,678.8	28.1	6.8	-79.82	-478.5	24.1	833.8	799.7	34.14	24.422	
7,925.0	7,874.0	7,700.0	7,678.8	28.2	6.8	-79.41	-478.5	24.1	837.3	803.1	34.13	24.533	
7,950.0	7,891.5	7,716.3	7,694.2	28.3	6.8	-79.58	-482.0	20.3	840.9	806.7	34.19	24.593	
7,975.0	7,908.1	7,725.0	7,702.4	28.3	6.8	-79.45	-484.0	18.0	844.8	810.5	34.22	24.684	
8,000.0	7,923.7	7,738.0	7,714.5	28.4	6.8	-79.48	-487.0	14.4	848.9	814.6	34.28	24.764	
8,025.0	7,938.2	7,750.0	7,725.5	28.4	6.8	-79.46	-490.0	10.8	853.2	818.9	34.33	24.852	
8,050.0	7,951.6	7,759.1	7,733.9	28.5	6.8	-79.31	-492.4	7.9	857.8	823.4	34.37	24.955	
8,075.0	7,964.0	7,769.5	7,743.2	28.6	6.8	-79.20	-495.1	4.4	862.6	828.1	34.42	25.057	
8,100.0	7,975.1	7,775.0	7,748.2	28.6	6.9	-78.84	-496.6	2.5	867.6	833.2	34.46	25.181	
8,125.0	7,985.1	7,789.7	7,761.3	28.7	6.9	-78.90	-500.8	-2.9	872.9	838.3	34.54	25.274	
8,150.0	7,993.9	7,800.0	7,770.2	28.7	6.9	-78.74	-503.7	-6.8	878.4	843.8	34.60	25.389	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7573-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,175.0	8,001.4	7,809.3	7,778.3	28.8	6.9	-78.50	-506.5	-10.6	884.2	849.5	34.66	25.511	
8,200.0	8,007.7	7,818.8	7,786.4	28.8	6.9	-78.26	-509.4	-14.5	890.2	855.5	34.72	25.637	
8,225.0	8,012.7	7,825.0	7,791.7	28.9	6.9	-77.83	-511.4	-17.2	896.4	861.7	34.77	25.779	
8,250.0	8,016.5	7,837.1	7,801.8	28.9	6.9	-77.68	-515.2	-22.6	902.9	868.1	34.86	25.903	
8,275.0	8,018.9	7,850.0	7,812.4	29.0	7.0	-77.57	-519.5	-28.6	909.7	874.7	34.95	26.030	
8,300.0	8,020.0	7,854.5	7,816.0	29.0	7.0	-76.97	-521.0	-30.7	916.6	881.6	35.00	26.191	
8,312.7	8,020.0	7,858.7	7,819.5	29.0	7.0	-76.76	-522.4	-32.8	920.3	885.2	35.03	26.268	
8,400.0	8,019.3	7,890.5	7,844.4	29.2	7.0	-78.50	-533.6	-49.1	948.4	913.1	35.30	26.862	
8,500.0	8,018.5	7,935.4	7,877.2	29.4	7.1	-80.79	-550.5	-74.5	987.0	951.4	35.66	27.681	
8,600.0	8,017.7	7,991.9	7,914.3	29.7	7.2	-83.33	-573.5	-110.4	1,031.0	995.0	36.07	28.587	
8,700.0	8,016.8	8,062.8	7,953.2	30.0	7.3	-85.93	-604.6	-160.7	1,078.6	1,042.0	36.57	29.493	
8,800.0	8,016.0	8,149.9	7,988.6	30.3	7.6	-88.18	-645.1	-229.0	1,127.8	1,090.5	37.22	30.303	
8,900.0	8,015.2	8,251.6	8,010.8	30.7	8.1	-89.55	-694.2	-315.1	1,176.8	1,138.8	38.04	30.939	
9,000.0	8,014.3	8,381.0	8,013.4	31.1	8.8	-89.76	-755.6	-428.8	1,224.2	1,185.1	39.17	31.255	
9,100.0	8,013.5	8,540.7	8,012.1	31.5	9.9	-89.77	-824.7	-572.9	1,267.3	1,226.5	40.76	31.094	
9,200.0	8,012.7	8,708.8	8,010.7	32.0	11.3	-89.77	-888.5	-728.3	1,305.1	1,262.5	42.60	30.634	
9,300.0	8,011.9	8,884.5	8,009.2	32.5	12.8	-89.78	-945.4	-894.5	1,337.2	1,292.6	44.68	29.932	
9,400.0	8,011.0	9,067.1	8,007.6	33.0	14.4	-89.78	-993.6	-1,070.6	1,363.4	1,316.5	46.91	29.064	
9,500.0	8,010.2	9,255.4	8,006.0	33.6	16.2	-89.79	-1,031.5	-1,255.0	1,383.3	1,334.1	49.25	28.086	
9,600.0	8,009.4	9,448.0	8,004.4	34.2	18.1	-89.79	-1,057.6	-1,445.7	1,396.6	1,345.0	51.64	27.043	
9,700.0	8,008.5	9,643.2	8,002.8	34.8	20.0	-89.79	-1,071.0	-1,640.4	1,403.2	1,349.2	54.03	25.973	
9,800.0	8,007.7	9,787.9	8,001.6	35.5	21.4	-89.79	-1,072.8	-1,785.2	1,404.0	1,348.0	56.01	25.068	
9,900.0	8,006.9	9,887.9	8,000.8	36.1	22.4	-89.79	-1,073.0	-1,885.2	1,404.0	1,346.3	57.71	24.330	
10,000.0	8,006.1	9,987.9	8,000.0	36.8	23.4	-89.79	-1,073.3	-1,985.2	1,404.0	1,344.6	59.43	23.623	
10,100.0	8,005.2	10,087.9	7,999.2	37.5	24.4	-89.79	-1,073.5	-2,085.2	1,404.0	1,342.8	61.19	22.945	
10,200.0	8,004.4	10,187.9	7,998.3	38.2	25.4	-89.79	-1,073.8	-2,185.2	1,404.0	1,341.0	62.97	22.077	
10,300.0	8,003.6	10,287.9	7,997.5	39.0	26.5	-89.79	-1,074.0	-2,285.2	1,404.0	1,339.2	64.77	21.676	
10,400.0	8,002.7	10,387.9	7,996.7	39.7	27.5	-89.79	-1,074.3	-2,385.1	1,404.0	1,337.4	66.60	21.081	
10,500.0	8,001.9	10,487.9	7,995.9	40.5	28.6	-89.79	-1,074.5	-2,485.1	1,404.0	1,335.5	68.45	20.512	
10,600.0	8,001.1	10,587.9	7,995.1	41.3	29.6	-89.79	-1,074.7	-2,585.1	1,404.0	1,333.7	70.31	19.968	
10,700.0	8,000.2	10,687.9	7,994.2	42.1	30.7	-89.80	-1,075.0	-2,685.1	1,404.0	1,331.8	72.19	19.447	
10,800.0	7,999.4	10,787.9	7,993.4	42.9	31.7	-89.80	-1,075.2	-2,785.1	1,404.0	1,329.9	74.09	18.948	
10,900.0	7,998.6	10,887.9	7,992.6	43.8	32.8	-89.80	-1,075.5	-2,885.1	1,404.0	1,328.0	76.01	18.471	
11,000.0	7,997.8	10,987.9	7,991.8	44.6	33.8	-89.80	-1,075.7	-2,985.1	1,404.0	1,326.0	77.94	18.013	
11,100.0	7,996.9	11,087.9	7,990.9	45.5	34.9	-89.80	-1,076.0	-3,085.1	1,404.0	1,324.1	79.89	17.575	
11,200.0	7,996.1	11,187.9	7,990.1	46.4	36.0	-89.80	-1,076.2	-3,185.1	1,404.0	1,322.1	81.84	17.155	
11,300.0	7,995.3	11,287.9	7,989.3	47.2	37.1	-89.80	-1,076.4	-3,285.1	1,404.0	1,320.2	83.81	16.752	
11,400.0	7,994.4	11,387.9	7,988.5	48.1	38.1	-89.80	-1,076.7	-3,385.1	1,404.0	1,318.2	85.79	16.365	
11,496.6	7,993.6	11,484.5	7,987.7	49.0	39.2	-89.80	-1,076.9	-3,481.7	1,404.0	1,316.3	87.71	16.006	
11,500.0	7,993.6	11,484.5	7,987.7	49.0	39.2	-89.80	-1,076.9	-3,481.7	1,404.0	1,316.2	87.76	15.999	
11,600.0	7,992.8	11,553.9	7,987.1	49.9	39.9	-89.80	-1,077.9	-3,551.1	1,405.2	1,315.7	89.50	15.700	
11,700.0	7,992.0	11,620.9	7,986.6	50.9	40.6	-89.80	-1,080.5	-3,618.0	1,408.8	1,317.6	91.20	15.447	
11,800.0	7,991.1	11,700.0	7,985.9	51.8	41.5	-89.80	-1,085.6	-3,696.9	1,414.8	1,321.8	93.00	15.213	
11,900.0	7,990.3	11,760.2	7,985.4	52.7	42.2	-89.80	-1,090.8	-3,757.0	1,423.0	1,328.4	94.56	15.049	
12,000.0	7,989.5	11,859.8	7,984.6	53.7	43.3	-89.80	-1,100.0	-3,856.1	1,432.0	1,335.4	96.58	14.826	
12,100.0	7,988.6	11,959.4	7,983.8	54.6	44.3	-89.80	-1,109.2	-3,955.3	1,441.0	1,342.4	98.61	14.612	
12,200.0	7,987.8	12,059.0	7,983.0	55.6	45.4	-89.81	-1,118.4	-4,054.5	1,450.0	1,349.3	100.65	14.406	
12,300.0	7,987.0	12,183.5	7,982.0	56.5	46.8	-89.81	-1,129.5	-4,178.4	1,458.8	1,355.8	103.00	14.163	
12,400.0	7,986.1	12,387.4	7,980.3	57.5	49.0	-89.81	-1,137.7	-4,382.1	1,462.5	1,356.5	106.07	13.789	
12,500.0	7,985.3	12,591.4	7,978.7	58.4	51.2	-89.81	-1,131.3	-4,585.9	1,459.1	1,350.5	108.69	13.425	
12,600.0	7,984.5	12,689.1	7,977.9	59.4	52.3	-89.81	-1,124.9	-4,683.5	1,452.4	1,341.6	110.75	13.114	
12,700.0	7,983.7	12,788.9	7,977.0	60.4	53.4	-89.81	-1,118.4	-4,783.0	1,445.6	1,332.8	112.82	12.813	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7573-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	
12,800.0	7,982.8	12,888.7	7,976.2	61.4	54.5	-89.81	-1,111.9	-4,882.6	1,438.8	1,323.9	114.90	12.522	
12,900.0	7,982.0	12,988.4	7,975.4	62.4	55.5	-89.81	-1,105.3	-4,982.1	1,432.0	1,315.0	116.99	12.241	
13,000.0	7,981.2	13,088.2	7,974.6	63.4	56.6	-89.81	-1,098.8	-5,081.7	1,425.2	1,306.2	119.08	11.969	
13,100.0	7,980.3	13,188.0	7,973.8	64.4	57.7	-89.81	-1,092.3	-5,181.2	1,418.4	1,297.3	121.17	11.706	
13,200.0	7,979.5	13,287.7	7,973.0	65.4	58.8	-89.81	-1,085.8	-5,280.8	1,411.7	1,288.4	123.27	11.452	
13,300.0	7,978.7	13,387.4	7,972.1	66.4	59.9	-89.81	-1,079.2	-5,380.3	1,404.9	1,279.5	125.37	11.206	
13,400.0	7,977.9	13,487.1	7,971.3	67.4	60.6	-89.81	-1,072.6	-5,479.8	1,398.3	1,271.9	127.37	10.986	
13,500.0	7,977.0	13,586.8	7,970.4	68.4	61.3	-89.80	-1,066.0	-5,579.3	1,391.6	1,264.2	129.32	10.795	
13,592.7	7,976.3	13,686.5	7,969.7	69.3	62.0	-89.80	-1,059.3	-5,678.8	1,384.9	1,256.5	131.08	10.643	
13,600.0	7,976.2	13,690.8	7,970.4	69.4	62.1	-89.80	-1,073.1	-5,583.5	1,395.1	1,263.8	131.22	10.632	
13,700.0	7,975.4	13,690.8	7,969.6	70.4	63.2	-89.80	-1,073.5	-5,683.5	1,395.2	1,261.8	133.34	10.463	
13,800.0	7,974.5	13,790.8	7,968.8	71.4	64.3	-89.80	-1,073.9	-5,783.5	1,395.3	1,259.8	135.47	10.300	
13,900.0	7,973.7	13,890.8	7,967.9	72.5	65.4	-89.80	-1,074.2	-5,883.5	1,395.4	1,257.8	137.60	10.141	
14,000.0	7,972.9	13,990.8	7,967.1	73.5	66.5	-89.80	-1,074.6	-5,983.5	1,395.5	1,255.8	139.73	9.987	
14,100.0	7,972.0	14,090.8	7,966.3	74.5	67.6	-89.80	-1,074.9	-6,083.5	1,395.6	1,253.7	141.87	9.837	
14,200.0	7,971.2	14,190.8	7,965.4	75.5	68.7	-89.80	-1,075.3	-6,183.4	1,395.7	1,251.7	144.01	9.692	
14,300.0	7,970.4	14,290.8	7,964.6	76.6	69.8	-89.80	-1,075.6	-6,283.4	1,395.8	1,249.7	146.15	9.551	
14,400.0	7,969.6	14,390.8	7,963.8	77.6	70.9	-89.80	-1,076.0	-6,383.4	1,396.0	1,247.7	148.30	9.413	
14,500.0	7,968.7	14,490.8	7,962.9	78.6	72.0	-89.80	-1,076.4	-6,483.4	1,396.1	1,245.6	150.44	9.280	
14,600.0	7,967.9	14,590.8	7,962.1	79.7	73.1	-89.80	-1,076.7	-6,583.4	1,396.2	1,243.6	152.59	9.150	
14,700.0	7,967.1	14,690.8	7,961.3	80.7	74.2	-89.80	-1,077.1	-6,683.4	1,396.3	1,241.6	154.74	9.023	
14,800.0	7,966.2	14,790.8	7,960.4	81.8	75.4	-89.80	-1,077.4	-6,783.4	1,396.4	1,239.5	156.90	8.900	
14,900.0	7,965.4	14,890.8	7,959.6	82.8	76.5	-89.80	-1,077.8	-6,883.4	1,396.5	1,237.5	159.05	8.780	
15,000.0	7,964.6	14,990.8	7,958.8	83.9	77.6	-89.80	-1,078.1	-6,983.4	1,396.6	1,235.4	161.21	8.663	
15,100.0	7,963.8	15,090.8	7,957.9	84.9	78.7	-89.80	-1,078.5	-7,083.4	1,396.7	1,233.4	163.37	8.550	
15,200.0	7,962.9	15,190.8	7,957.1	86.0	79.8	-89.80	-1,078.9	-7,183.4	1,396.9	1,231.3	165.53	8.439	
15,300.0	7,962.1	15,290.8	7,956.2	87.0	80.9	-89.80	-1,079.2	-7,283.4	1,397.0	1,229.3	167.69	8.331	
15,400.0	7,961.3	15,390.8	7,955.4	88.1	82.0	-89.80	-1,079.6	-7,383.4	1,397.1	1,227.2	169.86	8.225	
15,500.0	7,960.4	15,490.8	7,954.6	89.1	83.1	-89.80	-1,079.9	-7,483.4	1,397.2	1,225.2	172.02	8.122	
15,600.0	7,959.6	15,590.8	7,953.7	90.2	84.2	-89.80	-1,080.3	-7,583.4	1,397.3	1,223.1	174.19	8.022	
15,700.0	7,958.8	15,690.8	7,952.9	91.2	85.3	-89.80	-1,080.7	-7,683.4	1,397.4	1,221.1	176.36	7.924	
15,800.0	7,957.9	15,790.8	7,952.1	92.3	86.4	-89.80	-1,081.0	-7,783.4	1,397.5	1,219.0	178.53	7.828	
15,900.0	7,957.1	15,890.8	7,951.2	93.4	87.5	-89.80	-1,081.4	-7,883.4	1,397.7	1,216.9	180.71	7.734	
16,000.0	7,956.3	15,990.8	7,950.4	94.4	88.6	-89.80	-1,081.7	-7,983.4	1,397.8	1,214.9	182.88	7.643	
16,100.0	7,955.5	16,090.8	7,949.6	95.5	89.7	-89.80	-1,082.1	-8,083.4	1,397.9	1,212.8	185.05	7.554	
16,200.0	7,954.6	16,190.8	7,948.7	96.6	90.9	-89.80	-1,082.4	-8,183.4	1,398.0	1,210.8	187.23	7.467	
16,300.0	7,953.8	16,290.8	7,947.9	97.6	92.0	-89.80	-1,082.8	-8,283.4	1,398.1	1,208.7	189.41	7.381	
16,400.0	7,953.0	16,390.8	7,947.1	98.7	93.1	-89.80	-1,083.2	-8,383.4	1,398.2	1,206.6	191.59	7.298	
16,500.0	7,952.1	16,490.8	7,946.2	99.8	94.2	-89.80	-1,083.5	-8,483.4	1,398.3	1,204.6	193.77	7.217	
16,600.0	7,951.3	16,590.8	7,945.4	100.8	95.3	-89.80	-1,083.9	-8,583.3	1,398.4	1,202.5	195.95	7.137	
16,700.0	7,950.5	16,690.8	7,944.6	101.9	96.4	-89.80	-1,084.2	-8,683.3	1,398.6	1,200.4	198.13	7.059	
16,800.0	7,949.7	16,790.8	7,943.7	103.0	97.5	-89.80	-1,084.6	-8,783.3	1,398.7	1,198.4	200.31	6.982	
16,900.0	7,948.8	16,890.8	7,942.9	104.0	98.6	-89.80	-1,084.9	-8,883.3	1,398.8	1,196.3	202.50	6.908	
17,000.0	7,948.0	16,990.8	7,942.0	105.1	99.7	-89.80	-1,085.3	-8,983.3	1,398.9	1,194.2	204.68	6.834	
17,100.0	7,947.2	17,090.8	7,941.2	106.2	100.9	-89.80	-1,085.7	-9,083.3	1,399.0	1,192.1	206.87	6.763	
17,200.0	7,946.3	17,190.8	7,940.4	107.3	102.0	-89.80	-1,086.0	-9,183.3	1,399.1	1,190.1	209.06	6.692	
17,300.0	7,945.5	17,290.8	7,939.5	108.3	103.1	-89.80	-1,086.4	-9,283.3	1,399.2	1,188.0	211.25	6.624	
17,400.0	7,944.7	17,390.8	7,938.7	109.4	104.2	-89.80	-1,086.7	-9,383.3	1,399.3	1,185.9	213.43	6.556	
17,500.0	7,943.8	17,490.8	7,937.9	110.5	105.3	-89.80	-1,087.1	-9,483.3	1,399.5	1,183.8	215.62	6.490	
17,600.0	7,943.0	17,590.8	7,937.0	111.6	106.4	-89.80	-1,087.4	-9,583.3	1,399.6	1,181.8	217.82	6.425	
17,700.0	7,942.2	17,690.8	7,936.2	112.6	107.5	-89.80	-1,087.8	-9,683.3	1,399.7	1,179.7	220.01	6.362	
17,800.0	7,941.4	17,790.8	7,935.4	113.7	108.6	-89.80	-1,088.2	-9,783.3	1,399.8	1,177.6	222.20	6.300	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 #502H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7573-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	
17,900.0	7,940.5	17,890.8	7,934.5	114.8	109.7	-89.79	-1,088.5	-9,883.3	1,399.9	1,175.5	224.39	6.239	
17,963.7	7,940.0	17,954.5	7,934.0	115.5	110.5	-89.79	-1,088.7	-9,947.0	1,400.0	1,174.2	225.79	6.200	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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	101.88	-126.2	600.0	8,104.4				
100.0	100.0	17,078.0	8,069.2	4.2	72.0	101.88	-126.2	600.0	8,004.7	7,927.6	77.13	103.787	
200.0	200.0	17,078.0	8,069.2	4.3	72.0	101.88	-126.2	600.0	7,905.0	7,827.9	77.13	102.486	
300.0	300.0	17,078.0	8,069.2	4.3	72.0	101.88	-126.2	600.0	7,805.3	7,728.1	77.14	101.178	
400.0	400.0	17,078.0	8,069.2	4.4	72.0	101.88	-126.2	600.0	7,705.6	7,628.4	77.16	99.862	
500.0	500.0	17,078.0	8,069.2	4.5	72.0	101.88	-126.2	600.0	7,605.9	7,528.7	77.19	98.541	
600.0	600.0	17,113.8	8,069.3	4.7	72.2	98.56	-90.4	600.7	7,505.9	7,428.4	77.50	96.854	
700.0	700.0	17,114.1	8,069.3	4.8	72.2	98.53	-90.1	600.7	7,406.2	7,328.7	77.53	95.524	
800.0	800.0	17,114.4	8,069.3	5.0	72.2	98.51	-89.8	600.7	7,306.6	7,229.0	77.57	94.188	
900.0	900.0	17,114.6	8,069.3	5.2	72.2	98.48	-89.6	600.7	7,206.9	7,129.3	77.62	92.848	
1,000.0	1,000.0	17,114.9	8,069.3	5.4	72.2	98.45	-89.3	600.7	7,107.3	7,029.6	77.67	91.504	
1,100.0	1,100.0	17,115.2	8,069.3	5.6	72.2	98.43	-89.0	600.7	7,007.7	6,929.9	77.73	90.156	
1,200.0	1,200.0	17,115.5	8,069.3	5.9	72.2	98.40	-88.7	600.7	6,908.0	6,830.2	77.79	88.806	
1,300.0	1,300.0	17,115.8	8,069.3	6.1	72.2	98.37	-88.4	600.7	6,808.4	6,730.6	77.85	87.452	
1,400.0	1,400.0	17,116.1	8,069.3	6.4	72.3	98.34	-88.1	600.7	6,708.8	6,630.9	77.92	86.096	
1,500.0	1,500.0	17,116.4	8,069.3	6.7	72.3	98.31	-87.8	600.7	6,609.2	6,531.2	78.00	84.738	
1,600.0	1,600.0	17,116.8	8,069.3	6.9	72.3	98.28	-87.5	600.7	6,509.7	6,431.6	78.07	83.379	
1,700.0	1,700.0	17,117.1	8,069.3	7.2	72.3	98.25	-87.1	600.7	6,410.1	6,332.0	78.15	82.018	
1,800.0	1,800.0	17,117.4	8,069.3	7.5	72.3	98.22	-86.8	600.7	6,310.6	6,232.3	78.24	80.657	
1,900.0	1,900.0	17,117.8	8,069.3	7.8	72.3	98.19	-86.4	600.7	6,211.0	6,132.7	78.33	79.295	
2,000.0	2,000.0	17,118.1	8,069.3	8.1	72.3	98.16	-86.1	600.7	6,111.5	6,033.1	78.42	77.932	
2,100.0	2,100.0	17,118.5	8,069.3	8.4	72.3	98.12	-85.7	600.7	6,012.0	5,933.5	78.52	76.570	
2,200.0	2,200.0	17,118.9	8,069.3	8.8	72.3	98.09	-85.3	600.7	5,912.6	5,833.9	78.62	75.208	
2,300.0	2,300.0	17,119.2	8,069.3	9.1	72.3	98.05	-85.0	600.7	5,813.1	5,734.4	78.72	73.846	
2,400.0	2,400.0	17,119.6	8,069.3	9.4	72.3	98.01	-84.6	600.7	5,713.6	5,634.8	78.82	72.485	
2,500.0	2,500.0	17,120.0	8,069.4	9.7	72.3	97.98	-84.2	600.7	5,614.2	5,535.3	78.93	71.125	
2,600.0	2,600.0	17,120.9	8,069.4	10.0	72.3	98.28	-83.3	600.8	5,514.8	5,435.7	79.05	69.763	
2,700.0	2,699.8	17,122.8	8,069.4	10.4	72.3	106.75	-81.4	600.8	5,415.3	5,336.2	79.17	68.397	
2,750.0	2,749.7	17,124.1	8,069.4	10.5	72.3	114.89	-80.1	600.8	5,365.6	5,286.4	79.24	67.714	
2,800.0	2,799.5	17,125.5	8,069.4	10.7	72.3	114.81	-78.7	600.8	5,316.0	5,236.7	79.31	67.030	
2,900.0	2,899.1	17,128.4	8,069.5	11.0	72.3	114.65	-75.8	600.8	5,216.7	5,137.2	79.44	65.664	
3,000.0	2,998.7	17,131.4	8,069.5	11.3	72.4	114.48	-72.8	600.9	5,117.4	5,037.8	79.59	64.300	
3,100.0	3,098.4	17,134.5	8,069.6	11.7	72.4	114.30	-69.7	600.9	5,018.2	4,938.4	79.73	62.938	
3,200.0	3,198.0	17,137.7	8,069.7	12.0	72.4	114.12	-66.5	600.9	4,918.9	4,839.1	79.88	61.579	
3,300.0	3,297.6	17,172.0	8,070.7	12.3	72.7	112.08	-32.2	601.2	4,820.0	4,739.8	80.28	60.042	
3,400.0	3,397.2	17,172.0	8,070.7	12.7	72.7	112.08	-32.2	601.2	4,720.8	4,640.4	80.41	58.711	
3,500.0	3,496.8	17,172.0	8,070.7	13.0	72.7	112.08	-32.2	601.2	4,621.6	4,541.1	80.54	57.382	
3,600.0	3,596.4	17,172.0	8,070.7	13.3	72.7	112.08	-32.2	601.2	4,522.4	4,441.8	80.68	56.057	
3,700.0	3,696.1	17,172.0	8,070.7	13.7	72.7	112.08	-32.2	601.2	4,423.3	4,342.5	80.81	54.734	
3,800.0	3,795.7	17,172.0	8,070.7	14.0	72.7	112.08	-32.2	601.2	4,324.2	4,243.2	80.96	53.414	
3,900.0	3,895.3	17,172.0	8,070.7	14.4	72.7	112.08	-32.2	601.2	4,225.2	4,144.1	81.10	52.098	
4,000.0	3,994.9	17,172.0	8,070.7	14.7	72.7	112.08	-32.2	601.2	4,126.2	4,044.9	81.25	50.785	
4,100.0	4,094.5	17,172.0	8,070.7	15.1	72.7	112.08	-32.2	601.2	4,027.2	3,945.8	81.40	49.475	
4,200.0	4,194.2	17,181.5	8,071.0	15.4	72.7	111.49	-22.7	601.2	3,928.3	3,846.7	81.63	48.125	
4,300.0	4,293.8	17,193.8	8,071.5	15.8	72.8	110.69	-10.4	601.3	3,829.4	3,747.5	81.88	46.768	
4,400.0	4,393.4	17,206.1	8,071.9	16.1	72.9	109.87	1.9	601.3	3,730.5	3,648.4	82.14	45.418	
4,500.0	4,493.0	17,218.3	8,072.3	16.4	73.0	109.03	14.1	601.4	3,631.7	3,549.3	82.40	44.076	
4,600.0	4,592.6	17,230.4	8,072.8	16.8	73.1	108.17	26.2	601.4	3,532.9	3,450.2	82.66	42.741	
4,700.0	4,692.3	17,242.5	8,073.2	17.1	73.2	107.28	38.3	601.5	3,434.1	3,351.2	82.92	41.413	
4,800.0	4,791.9	17,254.5	8,073.6	17.5	73.3	106.37	50.3	601.6	3,335.3	3,252.1	83.19	40.092	
4,900.0	4,891.5	17,266.8	8,074.0	17.8	73.4	105.41	62.5	601.7	3,236.6	3,153.1	83.46	38.779	
5,000.0	4,991.1	17,284.5	8,074.6	18.2	73.5	103.96	80.2	601.8	3,137.9	3,054.1	83.78	37.454	

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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	17,301.5	8,075.1	18.5	73.6	102.51	97.2	602.0	3,039.2	2,955.1	84.10	36.140	
5,200.0	5,190.4	17,317.8	8,075.6	18.9	73.8	101.05	113.5	602.1	2,940.6	2,856.2	84.41	34.837	
5,300.0	5,290.0	17,333.4	8,076.0	19.2	73.9	99.59	129.1	602.4	2,842.0	2,757.3	84.72	33.545	
5,400.0	5,389.6	17,348.4	8,076.3	19.6	74.0	98.13	144.1	602.6	2,743.4	2,658.4	85.04	32.262	
5,500.0	5,489.2	17,363.8	8,076.7	20.0	74.1	96.58	159.4	602.8	2,644.9	2,559.6	85.36	30.987	
5,600.0	5,588.8	17,383.6	8,077.0	20.3	74.3	94.48	179.3	603.2	2,546.5	2,460.8	85.71	29.709	
5,700.0	5,688.5	17,401.6	8,077.3	20.7	74.4	92.48	197.3	603.7	2,448.1	2,362.0	86.07	28.444	
5,800.0	5,788.1	17,418.0	8,077.4	21.0	74.5	90.58	213.7	604.2	2,349.7	2,263.3	86.41	27.193	
5,900.0	5,887.7	17,433.1	8,077.5	21.4	74.6	88.78	228.7	604.7	2,251.5	2,164.7	86.75	25.953	
6,000.0	5,987.3	17,446.9	8,077.5	21.7	74.7	87.08	242.5	605.2	2,153.3	2,066.2	87.09	24.725	
6,100.0	6,086.9	17,459.6	8,077.5	22.1	74.8	85.46	255.3	605.7	2,055.3	1,967.9	87.43	23.507	
6,200.0	6,186.6	17,471.4	8,077.4	22.4	74.9	83.93	267.0	606.2	1,957.4	1,869.7	87.78	22.300	
6,300.0	6,286.2	17,455.0	8,077.5	22.8	74.8	86.05	250.6	605.5	1,859.9	1,772.0	87.93	21.152	
6,400.0	6,385.8	17,473.6	8,077.5	23.1	74.9	83.65	269.2	606.2	1,762.4	1,674.1	88.35	19.948	
6,500.0	6,485.4	17,479.6	8,077.5	23.5	75.0	82.86	275.2	606.4	1,665.3	1,576.6	88.70	18.776	
6,600.0	6,585.0	17,485.9	8,077.6	23.8	75.0	82.02	281.5	606.6	1,568.5	1,479.5	89.06	17.612	
6,700.0	6,684.7	17,492.5	8,077.6	24.2	75.1	81.14	288.1	606.7	1,472.2	1,382.7	89.45	16.457	
6,748.3	6,732.7	17,495.8	8,077.6	24.4	75.1	80.69	291.4	606.8	1,425.8	1,336.1	89.65	15.903	
6,800.0	6,784.3	17,499.3	8,077.7	24.6	75.1	78.53	294.9	606.9	1,376.3	1,286.4	89.87	15.313	
6,900.0	6,884.0	17,505.2	8,077.7	24.9	75.2	74.68	300.8	607.1	1,281.0	1,190.7	90.33	14.182	
7,000.0	6,983.9	17,510.2	8,077.8	25.3	75.2	71.29	305.8	607.2	1,186.7	1,095.9	90.83	13.066	
7,100.0	7,083.9	17,514.1	8,077.9	25.6	75.3	68.36	309.7	607.3	1,093.6	1,002.2	91.39	11.967	
7,200.0	7,183.8	17,516.8	8,077.9	26.0	75.3	65.89	312.4	607.3	1,002.1	910.1	92.02	10.890	
7,248.3	7,232.1	17,517.7	8,077.9	26.1	75.3	93.04	313.3	607.3	958.6	866.3	92.36	10.379	
7,300.0	7,283.8	17,518.5	8,077.9	26.3	75.3	92.94	314.1	607.3	912.6	819.9	92.76	9.839	
7,400.0	7,383.8	17,520.1	8,078.0	26.7	75.3	92.72	315.7	607.4	825.6	732.0	93.64	8.818	
7,500.0	7,483.8	17,521.8	8,078.0	27.0	75.3	92.50	317.4	607.4	741.9	647.2	94.69	7.835	
7,558.8	7,542.6	17,522.8	8,078.0	27.2	75.3	92.36	318.4	607.4	694.7	599.3	95.41	7.282	
7,575.0	7,558.8	17,523.1	8,078.0	27.3	75.3	-177.64	318.7	607.4	682.2	586.6	95.62	7.134	
7,600.0	7,583.8	17,523.5	8,078.0	27.4	75.3	-177.82	319.1	607.4	663.9	568.0	95.97	6.918	
7,625.0	7,608.6	17,523.9	8,078.0	27.5	75.3	-177.97	319.5	607.4	647.1	550.7	96.36	6.715	
7,650.0	7,633.3	17,524.3	8,078.1	27.5	75.3	-178.09	319.9	607.4	631.8	535.0	96.77	6.528	
7,675.0	7,657.7	17,524.7	8,078.1	27.6	75.3	-178.20	320.3	607.4	618.2	521.0	97.21	6.359	
7,700.0	7,681.8	17,525.0	8,078.1	27.7	75.3	-178.28	320.6	607.5	606.5	508.8	97.67	6.209	
7,725.0	7,705.5	17,525.3	8,078.1	27.8	75.3	-178.35	320.9	607.5	596.8	498.6	98.15	6.080	
7,750.0	7,728.8	17,525.6	8,078.1	27.9	75.3	-178.41	321.2	607.5	589.3	490.6	98.64	5.974	
7,775.0	7,751.5	17,525.9	8,078.1	27.9	75.3	-178.45	321.5	607.5	584.0	484.8	99.13	5.891	
7,800.0	7,773.7	17,526.1	8,078.1	28.0	75.4	-178.48	321.7	607.5	581.0	481.4	99.62	5.833	
7,818.6	7,789.8	17,526.3	8,078.1	28.1	75.4	-178.50	321.9	607.5	580.4	480.4	99.97	5.806 CC	
7,825.0	7,795.3	17,526.3	8,078.1	28.1	75.4	-178.51	321.9	607.5	580.5	480.4	100.09	5.799 ES	
7,850.0	7,816.1	17,526.5	8,078.1	28.1	75.4	-178.52	322.1	607.5	582.3	481.7	100.54	5.792 SF	
7,875.0	7,836.2	17,526.6	8,078.1	28.2	75.4	-178.52	322.2	607.5	586.4	485.5	100.96	5.809	
7,900.0	7,855.5	17,526.7	8,078.1	28.3	75.4	-178.51	322.3	607.5	592.9	491.5	101.34	5.850	
7,925.0	7,874.0	17,526.8	8,078.1	28.4	75.4	-178.48	322.4	607.5	601.5	499.8	101.69	5.915	
7,950.0	7,891.5	17,526.8	8,078.1	28.4	75.4	-178.45	322.4	607.5	612.3	510.3	102.01	6.002	
7,975.0	7,908.1	17,526.8	8,078.1	28.5	75.4	-178.39	322.4	607.5	624.9	522.7	102.28	6.110	
8,000.0	7,923.7	17,526.7	8,078.1	28.5	75.4	-178.33	322.3	607.5	639.4	536.9	102.52	6.237	
8,025.0	7,938.2	17,526.6	8,078.1	28.6	75.4	-178.24	322.2	607.5	655.6	552.8	102.73	6.382	
8,050.0	7,951.6	17,526.4	8,078.1	28.7	75.4	-178.12	322.0	607.5	673.2	570.3	102.90	6.542	
8,075.0	7,964.0	17,526.2	8,078.1	28.7	75.4	-177.98	321.8	607.5	692.1	589.1	103.04	6.717	
8,100.0	7,975.1	17,526.0	8,078.1	28.8	75.4	-177.80	321.6	607.5	712.2	609.1	103.16	6.904	
8,125.0	7,985.1	17,525.7	8,078.1	28.8	75.3	-177.56	321.3	607.5	733.3	630.1	103.26	7.102	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,150.0	7,993.9	17,525.4	8,078.1	28.9	75.3	-177.25	320.9	607.5	755.3	652.0	103.34	7.310	
8,175.0	8,001.4	17,525.0	8,078.1	28.9	75.3	-176.84	320.6	607.5	778.1	674.7	103.40	7.525	
8,200.0	8,007.7	17,524.5	8,078.1	29.0	75.3	-176.27	320.1	607.4	801.5	698.0	103.44	7.748	
8,225.0	8,012.7	17,524.0	8,078.0	29.0	75.3	-175.46	319.6	607.4	825.3	721.9	103.48	7.976	
8,250.0	8,016.5	17,523.5	8,078.0	29.1	75.3	-174.19	319.1	607.4	849.6	746.1	103.50	8.209	
8,275.0	8,018.9	17,522.9	8,078.0	29.1	75.3	-172.01	318.4	607.4	874.2	770.7	103.52	8.445	
8,300.0	8,020.0	17,522.2	8,078.0	29.2	75.3	-167.45	317.8	607.4	899.0	795.5	103.52	8.684	
8,312.7	8,020.0	17,521.8	8,078.0	29.2	75.3	-162.57	317.4	607.4	911.7	808.2	103.52	8.807	
8,400.0	8,019.3	17,519.3	8,078.0	29.3	75.3	-160.44	314.9	607.4	998.7	895.2	103.52	9.648	
8,500.0	8,018.5	17,516.1	8,077.9	29.6	75.3	-157.86	311.7	607.3	1,098.5	995.0	103.51	10.613	
8,600.0	8,017.7	17,512.5	8,077.9	29.8	75.2	-155.10	308.1	607.2	1,198.4	1,094.9	103.49	11.579	
8,700.0	8,016.8	17,508.6	8,077.8	30.1	75.2	-152.18	304.2	607.1	1,298.2	1,194.7	103.47	12.547	
8,800.0	8,016.0	17,504.2	8,077.7	30.4	75.2	-149.09	299.8	607.0	1,398.1	1,294.6	103.45	13.515	
8,900.0	8,015.2	17,499.3	8,077.7	30.8	75.1	-145.84	294.9	606.9	1,497.9	1,394.5	103.42	14.485	
9,000.0	8,014.3	17,493.7	8,077.6	31.2	75.1	-142.43	289.3	606.8	1,597.8	1,494.4	103.38	15.456	
9,100.0	8,013.5	17,487.4	8,077.6	31.7	75.1	-138.89	283.0	606.6	1,697.7	1,594.4	103.34	16.429	
9,200.0	8,012.7	17,480.0	8,077.5	32.1	75.0	-135.24	275.6	606.4	1,797.6	1,694.3	103.28	17.404	
9,300.0	8,011.9	17,471.5	8,077.5	32.6	74.9	-131.50	267.1	606.1	1,897.5	1,794.2	103.22	18.382	
9,400.0	8,011.0	17,461.4	8,077.5	33.2	74.9	-127.72	257.0	605.7	1,997.3	1,894.2	103.14	19.365	
9,500.0	8,010.2	17,455.0	8,077.5	33.7	74.8	-125.62	250.6	605.5	2,097.2	1,994.1	103.11	20.340	
9,600.0	8,009.4	17,455.0	8,077.5	34.3	74.8	-125.62	250.6	605.5	2,197.1	2,094.0	103.13	21.304	
9,700.0	8,008.5	17,455.0	8,077.5	34.9	74.8	-125.62	250.6	605.5	2,297.0	2,193.8	103.16	22.267	
9,800.0	8,007.7	17,455.0	8,077.5	35.6	74.8	-125.62	250.6	605.5	2,396.9	2,293.7	103.18	23.230	
9,900.0	8,006.9	17,455.0	8,077.5	36.2	74.8	-125.62	250.6	605.5	2,496.8	2,393.6	103.21	24.192	
10,000.0	8,006.1	17,455.0	8,077.5	36.9	74.8	-125.62	250.6	605.5	2,596.7	2,493.5	103.23	25.154	
10,100.0	8,005.2	17,455.0	8,077.5	37.6	74.8	-125.62	250.6	605.5	2,696.6	2,593.3	103.26	26.115	
10,200.0	8,004.4	17,435.9	8,077.5	38.4	74.7	-120.40	231.5	604.8	2,796.4	2,693.3	103.11	27.121	
10,300.0	8,003.6	17,433.6	8,077.5	39.1	74.6	-119.87	229.2	604.7	2,896.3	2,793.2	103.12	28.087	
10,400.0	8,002.7	17,431.4	8,077.5	39.9	74.6	-119.37	227.1	604.6	2,996.2	2,893.1	103.13	29.054	
10,500.0	8,001.9	17,429.3	8,077.5	40.6	74.6	-118.90	224.9	604.5	3,096.2	2,993.0	103.14	30.020	
10,600.0	8,001.1	17,427.2	8,077.5	41.4	74.6	-118.45	222.8	604.5	3,196.1	3,092.9	103.15	30.985	
10,700.0	8,000.2	17,425.2	8,077.4	42.2	74.6	-118.03	220.8	604.4	3,296.0	3,192.8	103.16	31.950	
10,800.0	7,999.4	17,423.2	8,077.4	43.1	74.6	-117.63	218.8	604.3	3,395.9	3,292.7	103.18	32.914	
10,900.0	7,998.6	17,421.3	8,077.4	43.9	74.6	-117.25	216.9	604.3	3,495.8	3,392.6	103.19	33.877	
11,000.0	7,997.8	17,419.4	8,077.4	44.7	74.5	-116.88	215.0	604.2	3,595.8	3,492.6	103.21	34.840	
11,100.0	7,996.9	17,417.6	8,077.4	45.6	74.5	-116.54	213.2	604.2	3,695.7	3,592.5	103.22	35.802	
11,200.0	7,996.1	17,415.8	8,077.4	46.5	74.5	-116.21	211.4	604.1	3,795.6	3,692.4	103.24	36.764	
11,300.0	7,995.3	17,414.1	8,077.4	47.3	74.5	-115.90	209.7	604.0	3,895.6	3,792.3	103.26	37.724	
11,400.0	7,994.4	17,412.4	8,077.4	48.2	74.5	-115.60	208.0	604.0	3,995.5	3,892.2	103.28	38.684	
11,500.0	7,993.6	17,410.7	8,077.3	49.1	74.5	-115.31	206.4	603.9	4,095.4	3,992.1	103.31	39.643	
11,600.0	7,992.8	17,409.1	8,077.3	50.0	74.5	-115.03	204.8	603.9	4,195.4	4,092.0	103.33	40.602	
11,700.0	7,992.0	17,407.5	8,077.3	50.9	74.4	-114.77	203.2	603.9	4,295.3	4,191.9	103.35	41.559	
11,800.0	7,991.1	17,406.0	8,077.3	51.9	74.4	-114.52	201.7	603.8	4,395.2	4,291.9	103.38	42.516	
11,900.0	7,990.3	17,404.5	8,077.3	52.8	74.4	-114.27	200.2	603.8	4,495.2	4,391.8	103.41	43.471	
12,000.0	7,989.5	17,403.0	8,077.3	53.7	74.4	-114.04	198.7	603.7	4,595.1	4,491.7	103.43	44.426	
12,100.0	7,988.6	17,401.6	8,077.3	54.7	74.4	-113.82	197.3	603.7	4,695.1	4,591.6	103.46	45.379	
12,200.0	7,987.8	17,400.2	8,077.2	55.6	74.4	-113.60	195.9	603.7	4,795.0	4,691.5	103.49	46.332	
12,300.0	7,987.0	17,398.8	8,077.2	56.6	74.4	-113.39	194.5	603.6	4,895.0	4,791.5	103.52	47.284	
12,400.0	7,986.1	17,397.5	8,077.2	57.6	74.4	-113.19	193.1	603.6	4,994.9	4,891.4	103.56	48.234	
12,500.0	7,985.3	17,396.2	8,077.2	58.5	74.4	-113.00	191.8	603.5	5,094.9	4,991.3	103.59	49.184	
12,600.0	7,984.5	17,394.9	8,077.2	59.5	74.4	-112.82	190.6	603.5	5,194.8	5,091.2	103.62	50.132	
12,700.0	7,983.7	17,393.6	8,077.2	60.5	74.3	-112.64	189.3	603.5	5,294.8	5,191.1	103.66	51.080	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.0	7,982.8	17,392.4	8,077.1	61.5	74.3	-112.46	188.1	603.5	5,394.7	5,291.0	103.69	52.026	
12,900.0	7,982.0	17,391.2	8,077.1	62.4	74.3	-112.29	186.9	603.4	5,494.7	5,391.0	103.73	52.971	
13,000.0	7,981.2	17,390.0	8,077.1	63.4	74.3	-112.13	185.7	603.4	5,594.7	5,490.9	103.77	53.915	
13,100.0	7,980.3	17,388.9	8,077.1	64.4	74.3	-111.98	184.5	603.4	5,694.6	5,590.8	103.81	54.858	
13,200.0	7,979.5	17,361.0	8,076.6	65.4	74.1	-108.70	156.7	602.8	5,794.7	5,691.1	103.63	55.916	
13,300.0	7,978.7	17,361.0	8,076.6	66.4	74.1	-108.70	156.7	602.8	5,894.7	5,791.0	103.68	56.853	
13,400.0	7,977.9	17,361.0	8,076.6	67.4	74.1	-108.70	156.7	602.8	5,994.6	5,890.9	103.73	57.789	
13,500.0	7,977.0	17,361.0	8,076.6	68.4	74.1	-108.70	156.7	602.8	6,094.6	5,990.8	103.79	58.723	
13,600.0	7,976.2	17,361.0	8,076.6	69.5	74.1	-108.70	156.7	602.8	6,194.5	6,090.7	103.84	59.656	
13,700.0	7,975.4	17,361.0	8,076.6	70.5	74.1	-108.70	156.7	602.8	6,294.5	6,190.6	103.89	60.587	
13,800.0	7,974.5	17,361.0	8,076.6	71.5	74.1	-108.70	156.7	602.8	6,394.4	6,290.5	103.95	61.517	
13,900.0	7,973.7	17,361.0	8,076.6	72.5	74.1	-108.70	156.7	602.8	6,494.4	6,390.4	104.00	62.446	
14,000.0	7,972.9	17,361.0	8,076.6	73.5	74.1	-108.70	156.7	602.8	6,594.3	6,490.3	104.06	63.373	
14,100.0	7,972.0	17,361.0	8,076.6	74.6	74.1	-108.70	156.7	602.8	6,694.3	6,590.2	104.11	64.299	
14,200.0	7,971.2	17,361.0	8,076.6	75.6	74.1	-108.70	156.7	602.8	6,794.3	6,690.1	104.17	65.224	
14,300.0	7,970.4	17,361.0	8,076.6	76.6	74.1	-108.70	156.7	602.8	6,894.2	6,790.0	104.23	66.147	
14,400.0	7,969.6	17,361.0	8,076.6	77.7	74.1	-108.70	156.7	602.8	6,994.2	6,889.9	104.28	67.068	
14,500.0	7,968.7	17,361.0	8,076.6	78.7	74.1	-108.70	156.7	602.8	7,094.1	6,989.8	104.34	67.989	
14,600.0	7,967.9	17,361.0	8,076.6	79.7	74.1	-108.70	156.7	602.8	7,194.1	7,089.7	104.40	68.907	
14,700.0	7,967.1	17,361.0	8,076.6	80.8	74.1	-108.70	156.7	602.8	7,294.1	7,189.6	104.46	69.824	
14,800.0	7,966.2	17,361.0	8,076.6	81.8	74.1	-108.70	156.7	602.8	7,394.0	7,289.5	104.52	70.740	
14,900.0	7,965.4	17,361.0	8,076.6	82.9	74.1	-108.70	156.7	602.8	7,494.0	7,389.4	104.59	71.654	
15,000.0	7,964.6	17,361.0	8,076.6	83.9	74.1	-108.70	156.7	602.8	7,594.0	7,489.3	104.65	72.566	
15,100.0	7,963.8	17,361.0	8,076.6	85.0	74.1	-108.70	156.7	602.8	7,693.9	7,589.2	104.71	73.477	
15,200.0	7,962.9	17,361.0	8,076.6	86.0	74.1	-108.70	156.7	602.8	7,793.9	7,689.1	104.78	74.386	
15,300.0	7,962.1	17,361.0	8,076.6	87.1	74.1	-108.70	156.7	602.8	7,893.9	7,789.0	104.84	75.294	
15,400.0	7,961.3	17,361.0	8,076.6	88.1	74.1	-108.70	156.7	602.8	7,993.9	7,888.9	104.91	76.200	
15,500.0	7,960.4	17,361.0	8,076.6	89.2	74.1	-108.70	156.7	602.8	8,093.8	7,988.9	104.97	77.104	
15,600.0	7,959.6	17,361.0	8,076.6	90.2	74.1	-108.70	156.7	602.8	8,193.8	8,088.8	105.04	78.007	
15,700.0	7,958.8	17,361.0	8,076.6	91.3	74.1	-108.70	156.7	602.8	8,293.8	8,188.7	105.11	78.908	
15,800.0	7,957.9	17,361.0	8,076.6	92.4	74.1	-108.70	156.7	602.8	8,393.7	8,288.6	105.17	79.808	
15,900.0	7,957.1	17,361.0	8,076.6	93.4	74.1	-108.70	156.7	602.8	8,493.7	8,388.5	105.24	80.705	
16,000.0	7,956.3	17,361.0	8,076.6	94.5	74.1	-108.70	156.7	602.8	8,593.7	8,488.4	105.31	81.601	
16,100.0	7,955.5	17,361.0	8,076.6	95.5	74.1	-108.70	156.7	602.8	8,693.7	8,588.3	105.38	82.496	
16,200.0	7,954.6	17,361.0	8,076.6	96.6	74.1	-108.70	156.7	602.8	8,793.6	8,688.2	105.45	83.388	
16,300.0	7,953.8	17,361.0	8,076.6	97.7	74.1	-108.70	156.7	602.8	8,893.6	8,788.1	105.53	84.279	
16,400.0	7,953.0	17,361.0	8,076.6	98.7	74.1	-108.70	156.7	602.8	8,993.6	8,888.0	105.60	85.168	
16,500.0	7,952.1	17,361.0	8,076.6	99.8	74.1	-108.70	156.7	602.8	9,093.6	8,987.9	105.67	86.056	
16,600.0	7,951.3	17,361.0	8,076.6	100.9	74.1	-108.70	156.7	602.8	9,193.6	9,087.8	105.74	86.942	
16,700.0	7,950.5	17,361.0	8,076.6	101.9	74.1	-108.70	156.7	602.8	9,293.5	9,187.7	105.82	87.826	
16,800.0	7,949.7	17,361.0	8,076.6	103.0	74.1	-108.70	156.7	602.8	9,393.5	9,287.6	105.89	88.708	
16,900.0	7,948.8	17,361.0	8,076.6	104.1	74.1	-108.70	156.7	602.8	9,493.5	9,387.5	105.97	89.588	
17,000.0	7,948.0	17,361.0	8,076.6	105.2	74.1	-108.70	156.7	602.8	9,593.5	9,487.4	106.04	90.467	
17,100.0	7,947.2	17,361.0	8,076.6	106.2	74.1	-108.70	156.7	602.8	9,693.5	9,587.3	106.12	91.344	
17,200.0	7,946.3	17,361.0	8,076.6	107.3	74.1	-108.70	156.7	602.8	9,793.4	9,687.2	106.20	92.219	
17,300.0	7,945.5	17,361.0	8,076.6	108.4	74.1	-108.70	156.7	602.8	9,893.4	9,787.1	106.28	93.092	
17,400.0	7,944.7	17,361.0	8,076.6	109.5	74.1	-108.70	156.7	602.8	9,993.4	9,887.0	106.35	93.963	
17,500.0	7,943.8	17,361.0	8,076.6	110.5	74.1	-108.70	156.7	602.8	10,093.4	9,986.9	106.43	94.833	
17,600.0	7,943.0	17,361.0	8,076.6	111.6	74.1	-108.70	156.7	602.8	10,193.4	10,086.8	106.51	95.700	
17,700.0	7,942.2	17,361.0	8,076.6	112.7	74.1	-108.70	156.7	602.8	10,293.3	10,186.8	106.59	96.566	
17,800.0	7,941.4	17,361.0	8,076.6	113.8	74.1	-108.70	156.7	602.8	10,393.3	10,286.7	106.67	97.430	
17,900.0	7,940.5	17,361.0	8,076.6	114.8	74.1	-108.70	156.7	602.8	10,493.3	10,386.6	106.76	98.293	

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 #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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
17,963.7	7,940.0	17,361.0	8,076.6	115.5	74.1	-108.70	156.7	602.8	10,557.0	10,450.2	106.81	98.841	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 @ 3030.0usft (TBD)

Offset Depths are relative to Offset Datum

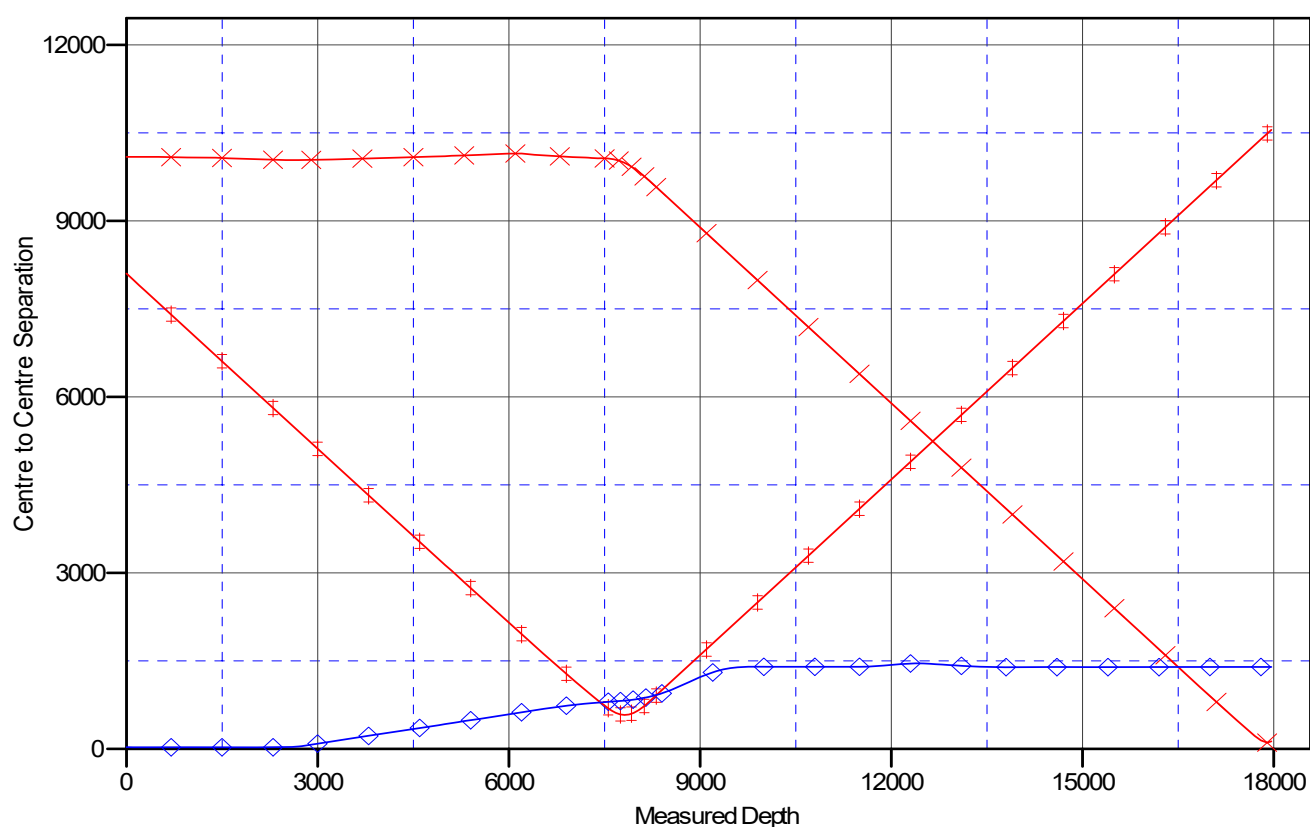
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #501H

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

Grid Convergence at Surface is: 0.12°

Ladder Plot



LEGEND

—x— MOODY ST COM #501H, ACTUAL WELL PATH V0
 —x— MOODY ST COM #501H, OWB, AWP V0
 —◇— MOODY ST COM #501H, OWB, PWP V0

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #501H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30 @ 3030.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30 @ 3030.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #501H	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 @ 3030.0usft (TBD)

Offset Depths are relative to Offset Datum

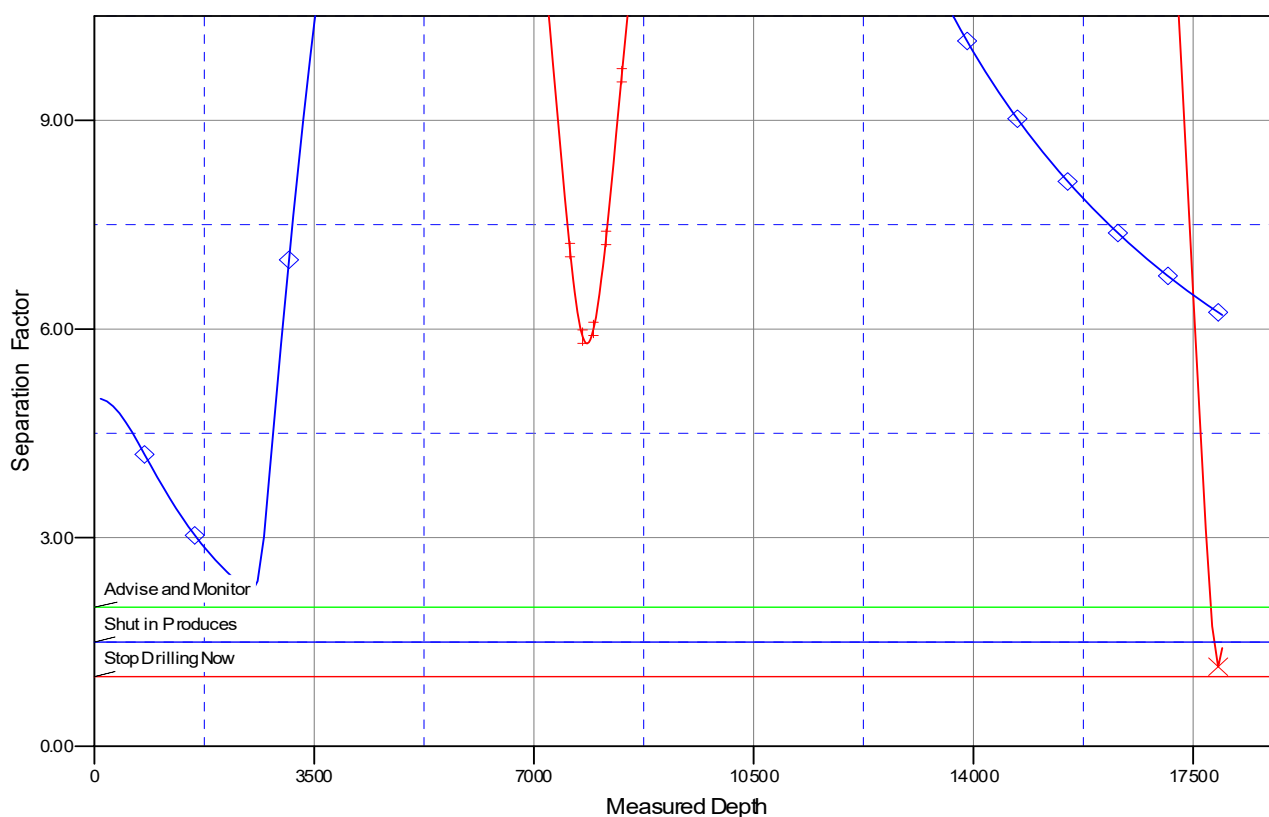
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #501H

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

—●— M YOK 21 STCOM #1H, OWB, ACT UALWELLPATH V0
 —X— MOODY 18 STATE COM #1H, OWB, AWP V0
 —◆— MOODY ST COM #502H, OWB, PWP V0