

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 295260

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 30-015-48181
4. Property Code 330661	5. Property Name MOODY STATE COM	6. Well No. 503H

7. Surface Location

UL - Lot A	Section 17	Township 25S	Range 28E	Lot Idn A	Feet From 1520	N/S Line N	Feet From 270	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot L	Section 18	Township 25S	Range 28E	Lot Idn 3	Feet From 1730	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 3009
16. Multiple N	17. Proposed Depth 17689	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	17689	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 17,689' 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	

District I1625 N. French Dr., Hobbs, NM 88240
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Phone: (505) 334-6178 Fax: (505) 334-6170**District IV**1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-		2 Pool Code 30216		3 Pool Name Hay Hollow; Bone Spring, North	
4 Property Code		5 Property Name MOODY STATE COM			6 Well Number 503H
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC			9 Elevation 3009'

" Surface Location

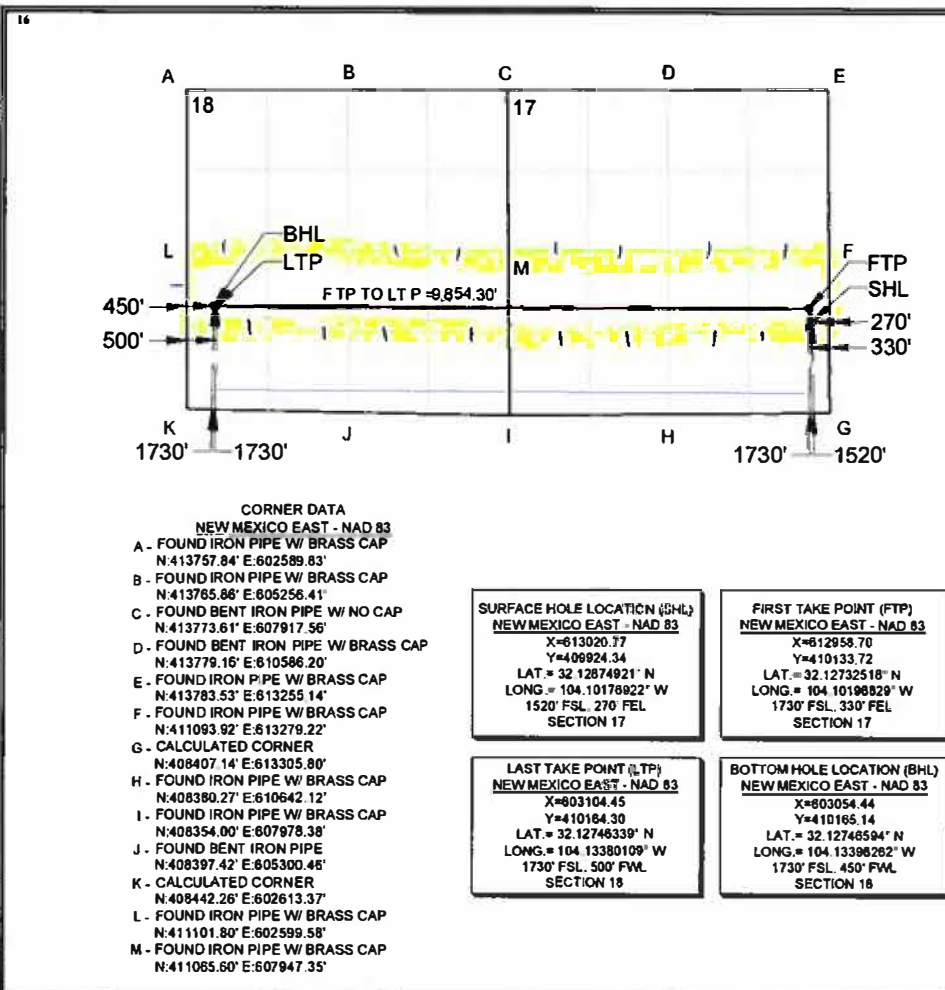
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	17	25-S	28-E		1520'	SOUTH	270'	EAST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L3	18	25-S	28-E		1730'	SOUTH	450'	WEST	EDDY

12 Dedicated Acres 320.28	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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: *Mayte Reyes* Date: *4-19-2021*

Printed Name: **Mayte Reyes**

E-mail Address: **Mayte.X.Reyes@conocophillips.com**

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 to the best of my belief.

Date of Survey: *3/17/2021*

Signature and Seal of Professional Surveyor: *Mark J. Murray*

Certificate Number: **12177**

3/17/2021

Certificate Number

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GAS CAPTURE PLAN

Date: 4/22/2021

☒ Original

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

☐ Amended - Reason for
Amendment: _____

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MOODY STATE COM #503H	30-015-48181	A-17-25S-28E	1520N 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 295260

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-48181
		Well: MOODY STATE COM #503H

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 295260

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-48181
	Well: MOODY STATE COM #503H

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 #503H

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#	17,689'	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 17,689' with Cut Brine. Run 5-1/2" 17# P110 BTC casing to TD and cement to 1900' in one stage.

Well Control

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

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

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #503H**

OWB

Plan: PWP1

Standard Survey Report

06 April, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Well:	MOODY ST COM #503H	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 #503H				
Well Position	+N/-S	0.0 usft	Northing:	409,866.50 usft	Latitude: 32° 7' 35.857 N
	+E/-W	0.0 usft	Easting:	571,836.78 usft	Longitude: 104° 6' 4.603 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,009.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/5/2021	6.80	59.74	47,404.01445544

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	271.38	

Survey Tool Program	Date	4/6/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,689.5	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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Well:	MOODY ST COM #503H	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	356.70	2,600.0	1.7	-0.1	0.1	2.00	2.00	0.00
2,700.0	4.00	356.70	2,699.8	7.0	-0.4	0.6	2.00	2.00	0.00
Start 2715.3 hold at 2700.0 MD									
2,800.0	4.00	356.70	2,799.6	13.9	-0.8	1.1	0.00	0.00	0.00
2,900.0	4.00	356.70	2,899.4	20.9	-1.2	1.7	0.00	0.00	0.00
3,000.0	4.00	356.70	2,999.1	27.9	-1.6	2.3	0.00	0.00	0.00
3,100.0	4.00	356.70	3,098.9	34.8	-2.0	2.8	0.00	0.00	0.00
3,200.0	4.00	356.70	3,198.6	41.8	-2.4	3.4	0.00	0.00	0.00
3,300.0	4.00	356.70	3,298.4	48.8	-2.8	4.0	0.00	0.00	0.00
3,400.0	4.00	356.70	3,398.1	55.7	-3.2	4.6	0.00	0.00	0.00
3,500.0	4.00	356.70	3,497.9	62.7	-3.6	5.1	0.00	0.00	0.00
3,600.0	4.00	356.70	3,597.6	69.6	-4.0	5.7	0.00	0.00	0.00
3,700.0	4.00	356.70	3,697.4	76.6	-4.4	6.3	0.00	0.00	0.00
3,800.0	4.00	356.70	3,797.2	83.6	-4.8	6.8	0.00	0.00	0.00
3,900.0	4.00	356.70	3,896.9	90.5	-5.2	7.4	0.00	0.00	0.00
4,000.0	4.00	356.70	3,996.7	97.5	-5.6	8.0	0.00	0.00	0.00
4,100.0	4.00	356.70	4,096.4	104.5	-6.0	8.5	0.00	0.00	0.00
4,200.0	4.00	356.70	4,196.2	111.4	-6.4	9.1	0.00	0.00	0.00
4,300.0	4.00	356.70	4,295.9	118.4	-6.8	9.7	0.00	0.00	0.00
4,400.0	4.00	356.70	4,395.7	125.4	-7.2	10.3	0.00	0.00	0.00
4,500.0	4.00	356.70	4,495.5	132.3	-7.6	10.8	0.00	0.00	0.00
4,600.0	4.00	356.70	4,595.2	139.3	-8.0	11.4	0.00	0.00	0.00
4,700.0	4.00	356.70	4,695.0	146.2	-8.4	12.0	0.00	0.00	0.00
4,800.0	4.00	356.70	4,794.7	153.2	-8.8	12.5	0.00	0.00	0.00
4,900.0	4.00	356.70	4,894.5	160.2	-9.2	13.1	0.00	0.00	0.00
5,000.0	4.00	356.70	4,994.2	167.1	-9.6	13.7	0.00	0.00	0.00
5,100.0	4.00	356.70	5,094.0	174.1	-10.0	14.2	0.00	0.00	0.00
5,200.0	4.00	356.70	5,193.7	181.1	-10.4	14.8	0.00	0.00	0.00
5,300.0	4.00	356.70	5,293.5	188.0	-10.8	15.4	0.00	0.00	0.00
5,400.0	4.00	356.70	5,393.3	195.0	-11.2	15.9	0.00	0.00	0.00
5,415.3	4.00	356.70	5,408.6	196.1	-11.3	16.0	0.00	0.00	0.00
Start Drop -1.00									

ConocoPhillips

Survey Report



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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.0	3.15	356.70	5,493.1	201.3	-11.6	16.5	1.00	-1.00	0.00
5,600.0	2.15	356.70	5,592.9	206.0	-11.9	16.8	1.00	-1.00	0.00
5,700.0	1.15	356.70	5,692.9	208.8	-12.0	17.1	1.00	-1.00	0.00
5,800.0	0.15	356.70	5,792.9	210.0	-12.1	17.2	1.00	-1.00	0.00
5,815.3	0.00	0.00	5,808.2	210.0	-12.1	17.2	1.00	-1.00	0.00
Start 1733.4 hold at 5815.3 MD									
5,900.0	0.00	0.00	5,892.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,392.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.9	210.0	-12.1	17.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.9	210.0	-12.1	17.2	0.00	0.00	0.00
7,548.7	0.00	0.00	7,541.6	210.0	-12.1	17.2	0.00	0.00	0.00
Start DLS 12.00 TFO 269.44									
7,600.0	6.16	269.44	7,592.8	210.0	-14.9	19.9	12.00	12.00	0.00
7,700.0	18.16	269.44	7,690.4	209.8	-35.9	40.9	12.00	12.00	0.00
7,800.0	30.16	269.44	7,781.5	209.4	-76.7	81.8	12.00	12.00	0.00
7,900.0	42.16	269.44	7,862.0	208.8	-135.6	140.6	12.00	12.00	0.00
8,000.0	54.16	269.44	7,928.6	208.1	-210.0	214.9	12.00	12.00	0.00
8,100.0	66.16	269.44	7,978.3	207.2	-296.5	301.5	12.00	12.00	0.00
8,200.0	78.16	269.44	8,008.9	206.3	-391.5	396.4	12.00	12.00	0.00
8,300.0	90.16	269.44	8,019.1	205.3	-490.8	495.7	12.00	12.00	0.00
8,302.7	90.48	269.44	8,019.0	205.3	-493.6	498.4	12.00	12.00	0.00
Start 4568.9 hold at 8302.7 MD									
8,400.0	90.48	269.44	8,018.2	204.3	-590.8	595.6	0.00	0.00	0.00
8,500.0	90.48	269.44	8,017.4	203.3	-690.8	695.5	0.00	0.00	0.00
8,600.0	90.48	269.44	8,016.5	202.3	-790.8	795.5	0.00	0.00	0.00
8,700.0	90.48	269.44	8,015.7	201.4	-890.8	895.4	0.00	0.00	0.00
8,800.0	90.48	269.44	8,014.8	200.4	-990.8	995.4	0.00	0.00	0.00
8,900.0	90.48	269.44	8,014.0	199.4	-1,090.8	1,095.3	0.00	0.00	0.00
9,000.0	90.48	269.44	8,013.1	198.4	-1,190.8	1,195.2	0.00	0.00	0.00
9,100.0	90.48	269.44	8,012.3	197.4	-1,290.8	1,295.2	0.00	0.00	0.00
9,200.0	90.48	269.44	8,011.5	196.4	-1,390.8	1,395.1	0.00	0.00	0.00

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Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Well:	MOODY ST COM #503H	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)
9,300.0	90.48	269.44	8,010.6	195.4	-1,490.8	1,495.0	0.00	0.00	0.00
9,400.0	90.48	269.44	8,009.8	194.5	-1,590.7	1,595.0	0.00	0.00	0.00
9,500.0	90.48	269.44	8,008.9	193.5	-1,690.7	1,694.9	0.00	0.00	0.00
9,600.0	90.48	269.44	8,008.1	192.5	-1,790.7	1,794.9	0.00	0.00	0.00
9,700.0	90.48	269.44	8,007.2	191.5	-1,890.7	1,894.8	0.00	0.00	0.00
9,800.0	90.48	269.44	8,006.4	190.5	-1,990.7	1,994.7	0.00	0.00	0.00
9,900.0	90.48	269.44	8,005.5	189.5	-2,090.7	2,094.7	0.00	0.00	0.00
10,000.0	90.48	269.44	8,004.7	188.6	-2,190.7	2,194.6	0.00	0.00	0.00
10,100.0	90.48	269.44	8,003.8	187.6	-2,290.7	2,294.6	0.00	0.00	0.00
10,200.0	90.48	269.44	8,003.0	186.6	-2,390.7	2,394.5	0.00	0.00	0.00
10,300.0	90.48	269.44	8,002.2	185.6	-2,490.7	2,494.4	0.00	0.00	0.00
10,400.0	90.48	269.44	8,001.3	184.6	-2,590.7	2,594.4	0.00	0.00	0.00
10,500.0	90.48	269.44	8,000.5	183.6	-2,690.7	2,694.3	0.00	0.00	0.00
10,600.0	90.48	269.44	7,999.6	182.7	-2,790.6	2,794.2	0.00	0.00	0.00
10,700.0	90.48	269.44	7,998.8	181.7	-2,890.6	2,894.2	0.00	0.00	0.00
10,800.0	90.48	269.44	7,997.9	180.7	-2,990.6	2,994.1	0.00	0.00	0.00
10,900.0	90.48	269.44	7,997.1	179.7	-3,090.6	3,094.1	0.00	0.00	0.00
11,000.0	90.48	269.44	7,996.2	178.7	-3,190.6	3,194.0	0.00	0.00	0.00
11,100.0	90.48	269.44	7,995.4	177.7	-3,290.6	3,293.9	0.00	0.00	0.00
11,200.0	90.48	269.44	7,994.5	176.7	-3,390.6	3,393.9	0.00	0.00	0.00
11,300.0	90.48	269.44	7,993.7	175.8	-3,490.6	3,493.8	0.00	0.00	0.00
11,400.0	90.48	269.44	7,992.8	174.8	-3,590.6	3,593.8	0.00	0.00	0.00
11,500.0	90.48	269.44	7,992.0	173.8	-3,690.6	3,693.7	0.00	0.00	0.00
11,600.0	90.48	269.44	7,991.2	172.8	-3,790.6	3,793.6	0.00	0.00	0.00
11,700.0	90.48	269.44	7,990.3	171.8	-3,890.6	3,893.6	0.00	0.00	0.00
11,800.0	90.48	269.44	7,989.5	170.8	-3,990.5	3,993.5	0.00	0.00	0.00
11,900.0	90.48	269.44	7,988.6	169.9	-4,090.5	4,093.4	0.00	0.00	0.00
12,000.0	90.48	269.44	7,987.8	168.9	-4,190.5	4,193.4	0.00	0.00	0.00
12,100.0	90.48	269.44	7,986.9	167.9	-4,290.5	4,293.3	0.00	0.00	0.00
12,200.0	90.48	269.44	7,986.1	166.9	-4,390.5	4,393.3	0.00	0.00	0.00
12,300.0	90.48	269.44	7,985.2	165.9	-4,490.5	4,493.2	0.00	0.00	0.00
12,400.0	90.48	269.44	7,984.4	164.9	-4,590.5	4,593.1	0.00	0.00	0.00
12,500.0	90.48	269.44	7,983.5	164.0	-4,690.5	4,693.1	0.00	0.00	0.00
12,600.0	90.48	269.44	7,982.7	163.0	-4,790.5	4,793.0	0.00	0.00	0.00
12,700.0	90.48	269.44	7,981.9	162.0	-4,890.5	4,893.0	0.00	0.00	0.00
12,800.0	90.48	269.44	7,981.0	161.0	-4,990.5	4,992.9	0.00	0.00	0.00
12,871.6	90.48	269.44	7,980.4	160.3	-5,062.1	5,064.5	0.00	0.00	0.00
Start DLS 2.00 TFO 90.17									
12,900.0	90.48	270.00	7,980.2	160.2	-5,090.5	5,092.8	2.00	-0.01	2.00
12,947.5	90.48	270.95	7,979.8	160.6	-5,138.0	5,140.3	2.00	-0.01	2.00
Start 4742.0 hold at 12947.5 MD									
13,000.0	90.48	270.95	7,979.3	161.4	-5,190.4	5,192.8	0.00	0.00	0.00
13,100.0	90.48	270.95	7,978.5	163.1	-5,290.4	5,292.8	0.00	0.00	0.00
13,200.0	90.48	270.95	7,977.6	164.8	-5,390.4	5,392.8	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Well:	MOODY ST COM #503H	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)
13,300.0	90.48	270.95	7,976.8	166.4	-5,490.4	5,492.8	0.00	0.00	0.00
13,400.0	90.48	270.95	7,976.0	168.1	-5,590.4	5,592.8	0.00	0.00	0.00
13,500.0	90.48	270.95	7,975.1	169.8	-5,690.4	5,692.8	0.00	0.00	0.00
13,600.0	90.48	270.95	7,974.3	171.4	-5,790.3	5,792.8	0.00	0.00	0.00
13,700.0	90.48	270.95	7,973.5	173.1	-5,890.3	5,892.8	0.00	0.00	0.00
13,800.0	90.48	270.95	7,972.6	174.7	-5,990.3	5,992.8	0.00	0.00	0.00
13,900.0	90.48	270.95	7,971.8	176.4	-6,090.3	6,092.8	0.00	0.00	0.00
14,000.0	90.48	270.95	7,970.9	178.1	-6,190.3	6,192.8	0.00	0.00	0.00
14,100.0	90.48	270.95	7,970.1	179.7	-6,290.2	6,292.8	0.00	0.00	0.00
14,200.0	90.48	270.95	7,969.3	181.4	-6,390.2	6,392.7	0.00	0.00	0.00
14,300.0	90.48	270.95	7,968.4	183.1	-6,490.2	6,492.7	0.00	0.00	0.00
14,400.0	90.48	270.95	7,967.6	184.7	-6,590.2	6,592.7	0.00	0.00	0.00
14,500.0	90.48	270.95	7,966.8	186.4	-6,690.2	6,692.7	0.00	0.00	0.00
14,600.0	90.48	270.95	7,965.9	188.1	-6,790.2	6,792.7	0.00	0.00	0.00
14,700.0	90.48	270.95	7,965.1	189.7	-6,890.1	6,892.7	0.00	0.00	0.00
14,800.0	90.48	270.95	7,964.2	191.4	-6,990.1	6,992.7	0.00	0.00	0.00
14,900.0	90.48	270.95	7,963.4	193.0	-7,090.1	7,092.7	0.00	0.00	0.00
15,000.0	90.48	270.95	7,962.6	194.7	-7,190.1	7,192.7	0.00	0.00	0.00
15,100.0	90.48	270.95	7,961.7	196.4	-7,290.1	7,292.7	0.00	0.00	0.00
15,200.0	90.48	270.95	7,960.9	198.0	-7,390.1	7,392.7	0.00	0.00	0.00
15,300.0	90.48	270.95	7,960.1	199.7	-7,490.0	7,492.7	0.00	0.00	0.00
15,400.0	90.48	270.95	7,959.2	201.4	-7,590.0	7,592.7	0.00	0.00	0.00
15,500.0	90.48	270.95	7,958.4	203.0	-7,690.0	7,692.7	0.00	0.00	0.00
15,600.0	90.48	270.95	7,957.5	204.7	-7,790.0	7,792.7	0.00	0.00	0.00
15,700.0	90.48	270.95	7,956.7	206.4	-7,890.0	7,892.7	0.00	0.00	0.00
15,800.0	90.48	270.95	7,955.9	208.0	-7,990.0	7,992.6	0.00	0.00	0.00
15,900.0	90.48	270.95	7,955.0	209.7	-8,089.9	8,092.6	0.00	0.00	0.00
16,000.0	90.48	270.95	7,954.2	211.4	-8,189.9	8,192.6	0.00	0.00	0.00
16,100.0	90.48	270.95	7,953.4	213.0	-8,289.9	8,292.6	0.00	0.00	0.00
16,200.0	90.48	270.95	7,952.5	214.7	-8,389.9	8,392.6	0.00	0.00	0.00
16,300.0	90.48	270.95	7,951.7	216.3	-8,489.9	8,492.6	0.00	0.00	0.00
16,400.0	90.48	270.95	7,950.8	218.0	-8,589.9	8,592.6	0.00	0.00	0.00
16,500.0	90.48	270.95	7,950.0	219.7	-8,689.8	8,692.6	0.00	0.00	0.00
16,600.0	90.48	270.95	7,949.2	221.3	-8,789.8	8,792.6	0.00	0.00	0.00
16,700.0	90.48	270.95	7,948.3	223.0	-8,889.8	8,892.6	0.00	0.00	0.00
16,800.0	90.48	270.95	7,947.5	224.7	-8,989.8	8,992.6	0.00	0.00	0.00
16,900.0	90.48	270.95	7,946.6	226.3	-9,089.8	9,092.6	0.00	0.00	0.00
17,000.0	90.48	270.95	7,945.8	228.0	-9,189.7	9,192.6	0.00	0.00	0.00
17,100.0	90.48	270.95	7,945.0	229.7	-9,289.7	9,292.6	0.00	0.00	0.00
17,200.0	90.48	270.95	7,944.1	231.3	-9,389.7	9,392.6	0.00	0.00	0.00
17,300.0	90.48	270.95	7,943.3	233.0	-9,489.7	9,492.6	0.00	0.00	0.00
17,400.0	90.48	270.95	7,942.5	234.7	-9,589.7	9,592.5	0.00	0.00	0.00
17,500.0	90.48	270.95	7,941.6	236.3	-9,689.7	9,692.5	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Well:	MOODY ST COM #503H	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)
17,600.0	90.48	270.95	7,940.8	238.0	-9,789.6	9,792.5	0.00	0.00	0.00
17,689.5	90.48	270.95	7,940.0	239.5	-9,879.1	9,882.0	0.00	0.00	0.00
TD at 17689.5									

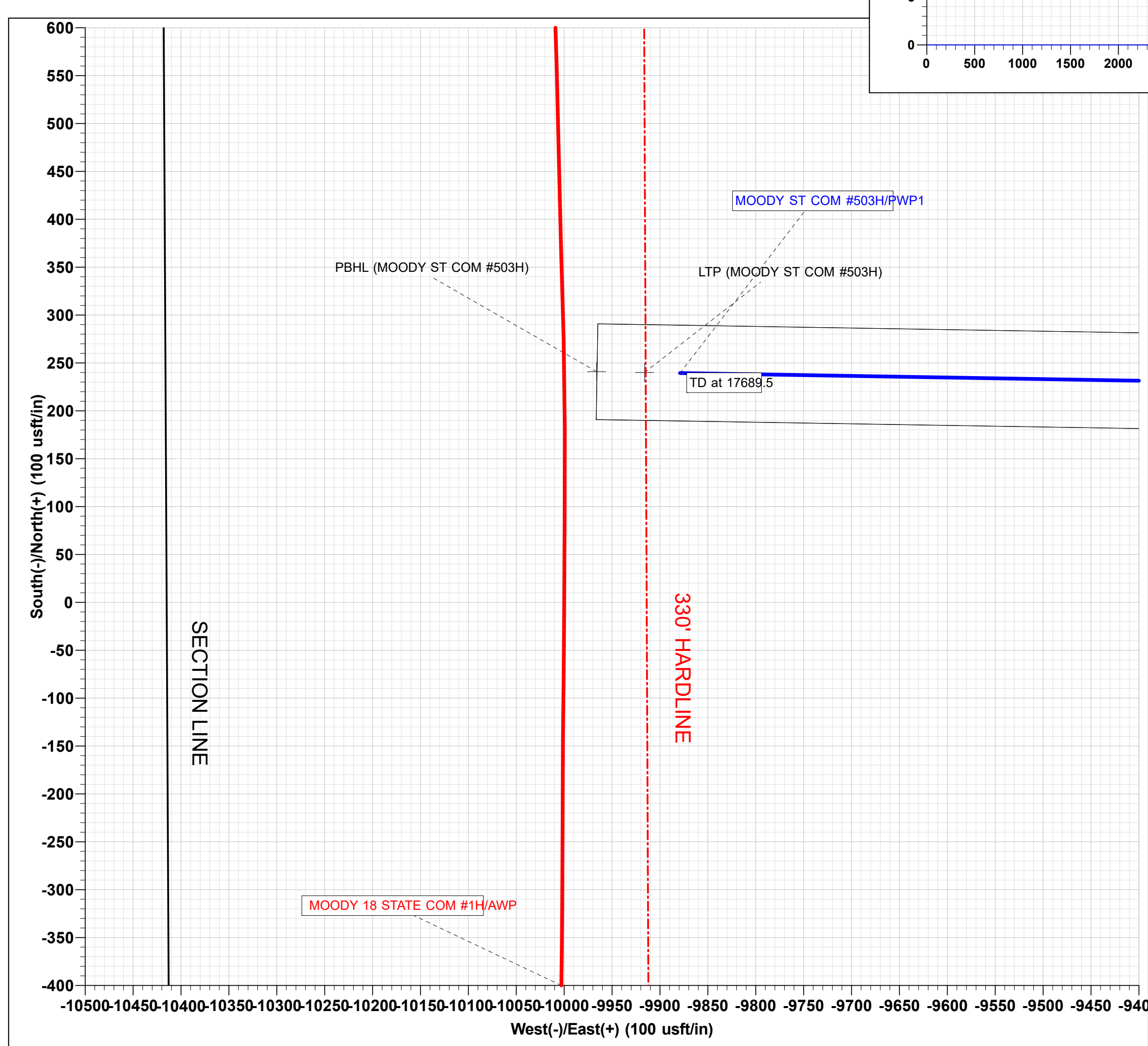
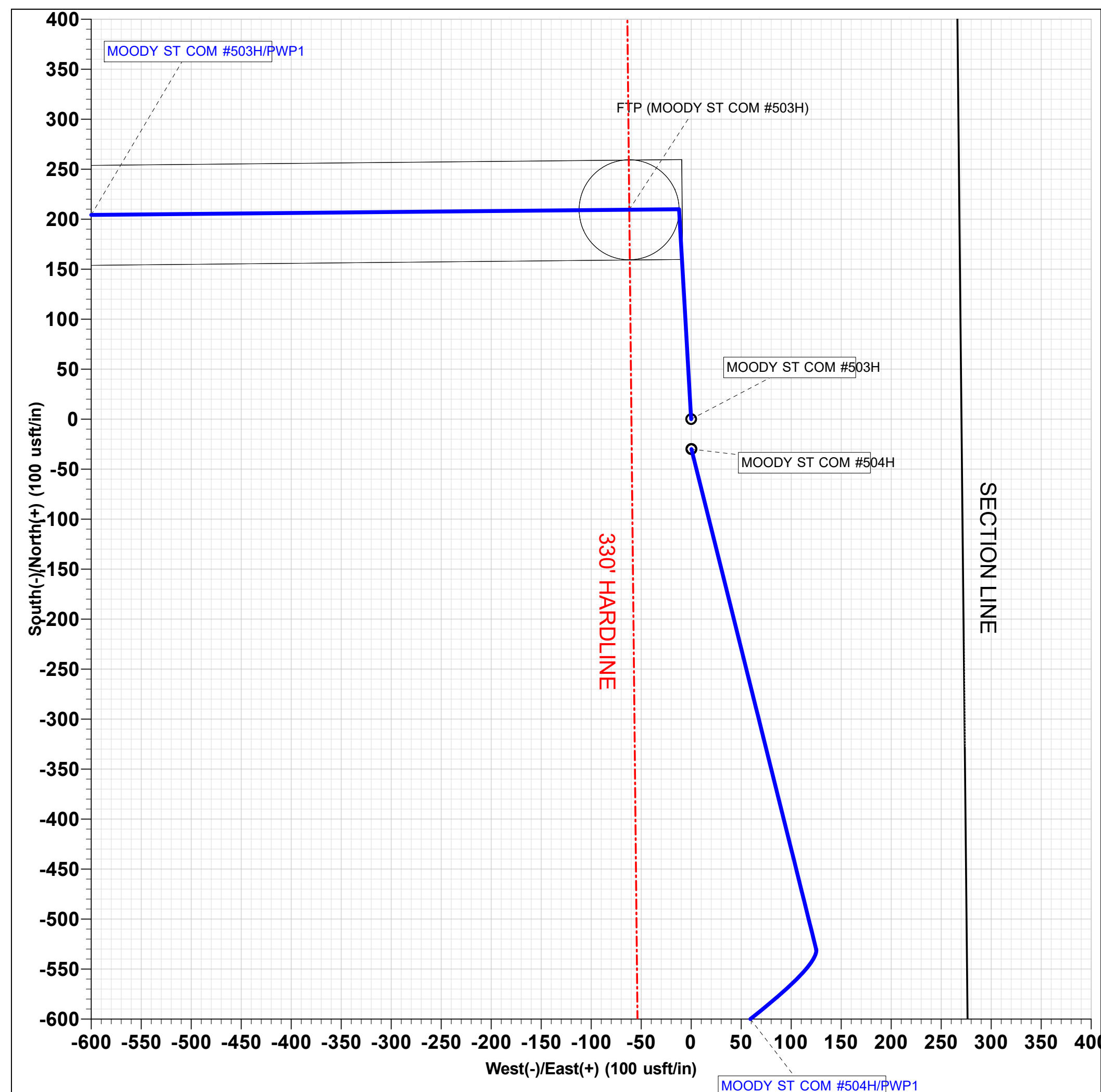
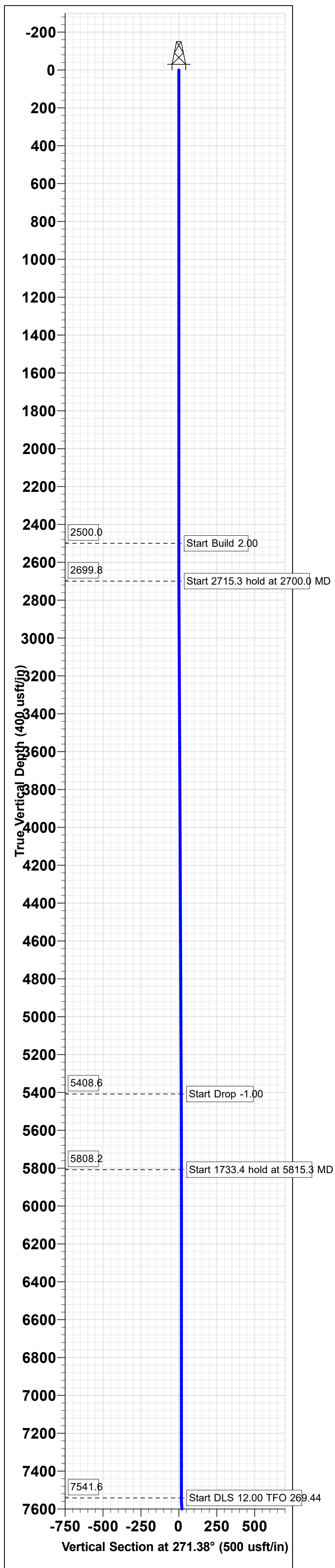
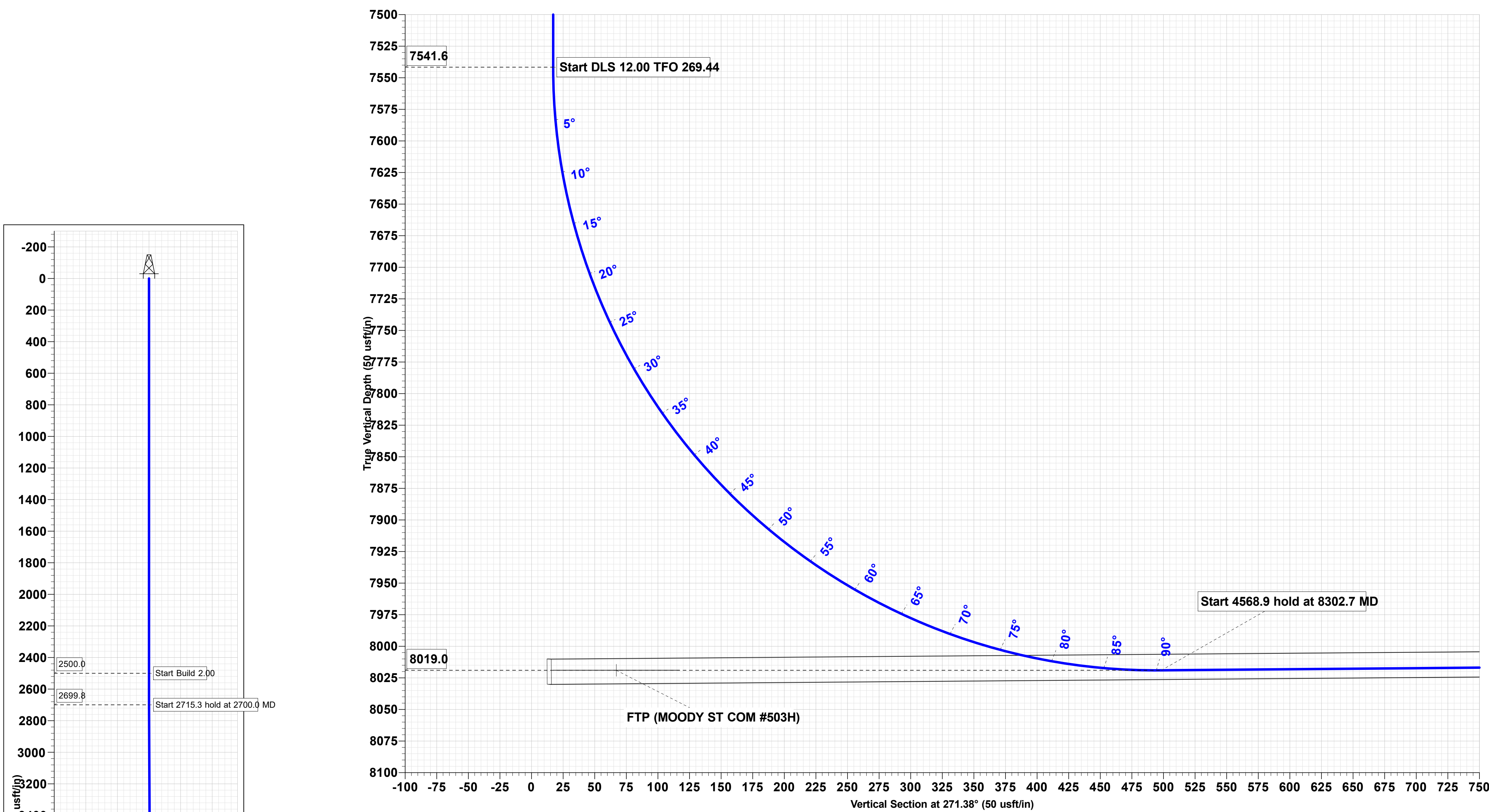
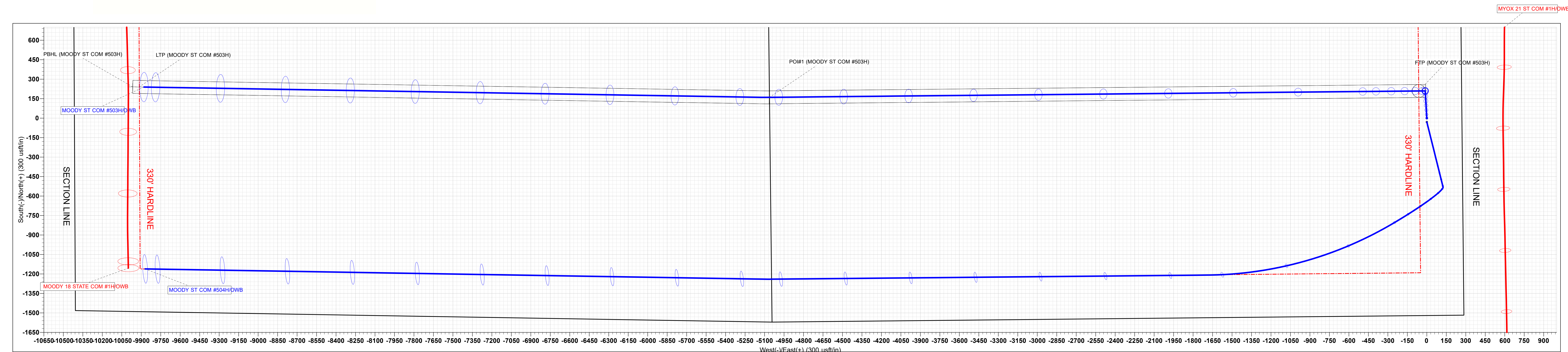
Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (MOODY ST COI - hit/miss target - Shape - plan misses target center by 87.0usft at 17689.5usft MD (7940.0 TVD, 239.5 N, -9879.1 E) - Rectangle (sides W100.0 H4,903.0 D20.0)	0.48	70.95	7,939.0	240.9	-9,966.1	410,107.42	561,870.68	32° 7' 38.439 N	104° 8' 0.494 W
LTP (MOODY ST COI - plan misses target center by 37.0usft at 17689.5usft MD (7940.0 TVD, 239.5 N, -9879.1 E) - Point	0.00	0.00	7,939.0	240.1	-9,916.1	410,106.58	561,920.68	32° 7' 38.429 N	104° 7' 59.912 W
POI#1 (MOODY ST COI - plan hits target center - Rectangle (sides W100.0 H5,053.0 D20.0)	0.48	69.44	7,980.4	160.3	-5,062.1	410,026.80	566,774.70	32° 7' 37.547 N	104° 7' 3.466 W
FTP (MOODY ST COI - plan misses target center by 163.4usft at 7950.0usft MD (7897.3 TVD, 208.4 N, -171.0 E) - Circle (radius 50.0)	0.00	0.00	8,019.0	209.4	-62.1	410,075.88	571,774.71	32° 7' 37.930 N	104° 6' 5.320 W

Plan Annotations

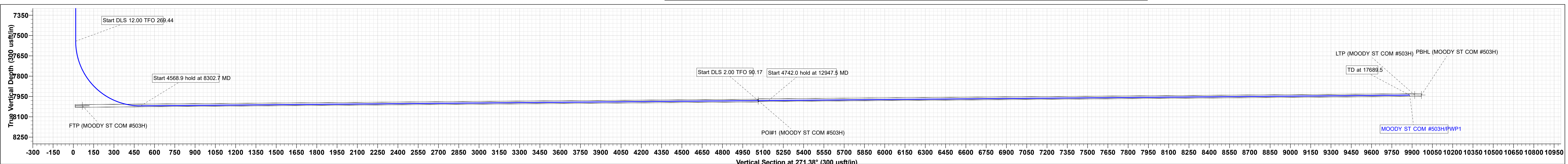
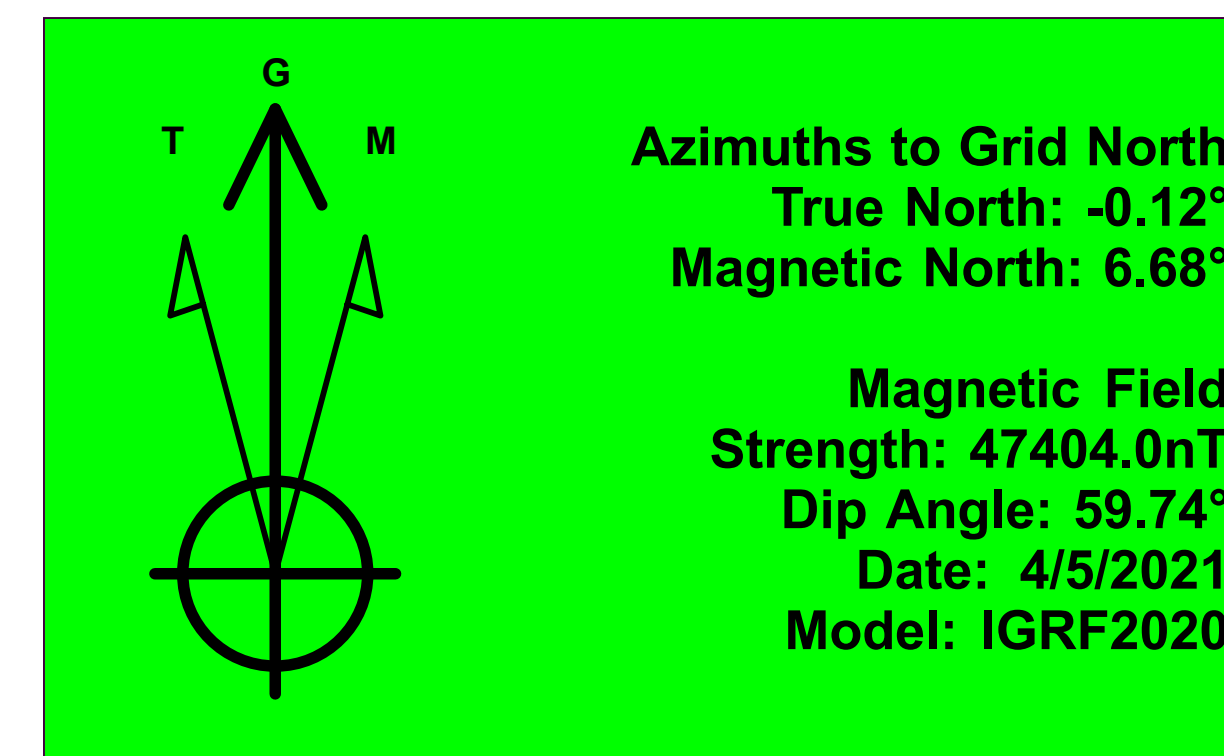
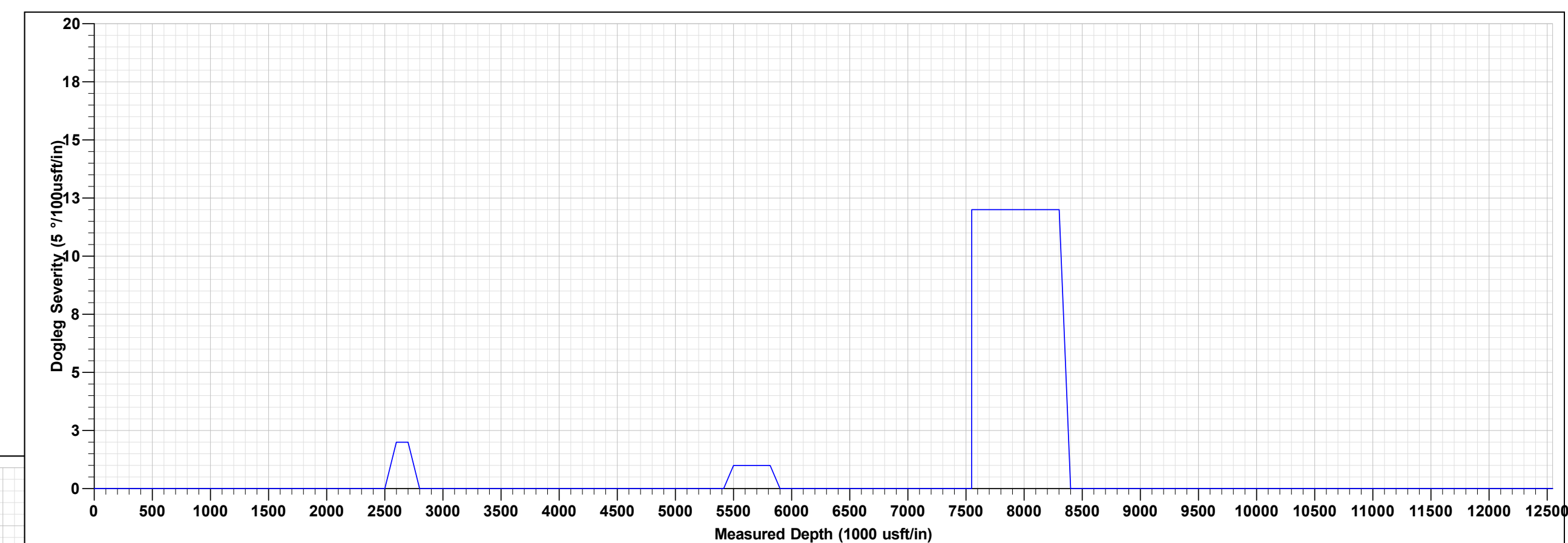
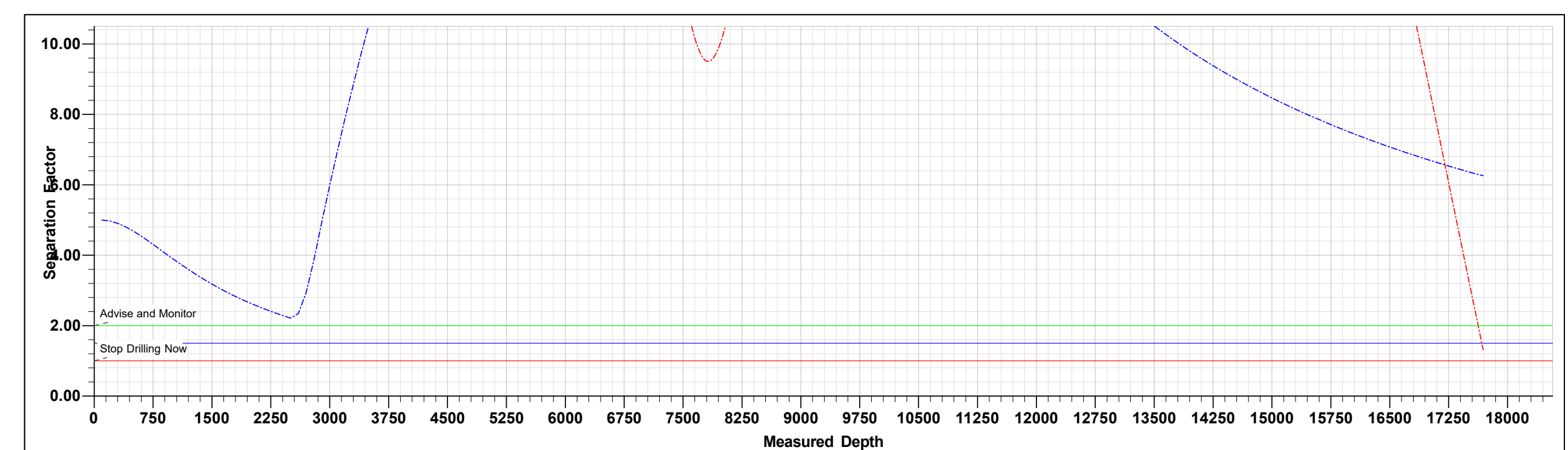
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2700	2700	7	0	Start 2715.3 hold at 2700.0 MD
5415	5409	196	-11	Start Drop -1.00
5815	5808	210	-12	Start 1733.4 hold at 5815.3 MD
7549	7542	210	-12	Start DLS 12.00 TFO 269.44
8303	8019	205	-494	Start 4568.9 hold at 8302.7 MD
12,872	7980	160	-5062	Start DLS 2.00 TFO 90.17
12,948	7980	161	-5138	Start 4742.0 hold at 12947.5 MD
17,689	7940	239	-9879	TD at 17689.5

Checked By: _____ Approved By: _____ Date: _____



MOODY ST COM #503H									
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
2700.0	4.00	356.70	2699.8	7.0	-0.4	2.00	356.70	0.6	Start 2715.3 hold at 2700.0 MD
5415.3	4.00	356.70	5408.6	196.1	-11.3	0.00	0.00	16.0	Start Drop -1.00
5815.3	0.00	0.00	5808.2	210.0	-12.1	1.00	180.00	17.2	Start 1733.4 hold at 5815.3 MD
7548.7	0.00	0.00	7541.6	210.0	-12.1	0.00	0.00	17.2	Start DLS 12.00 TFO 269.44
8302.7	90.48	269.44	8019.0	205.3	-493.6	12.00	269.44	498.4	Start 4568.9 hold at 8302.7 MD
12871.6	90.48	269.44	7980.4	160.3	-5062.1	0.00	0.00	5064.5	Start DLS 2.00 TFO 90.17
12947.5	90.48	270.95	7979.8	160.6	-5138.0	2.00	90.17	5140.3	Start 4742.0 hold at 12947.5 MD
17689.5	90.48	270.95	7940.0	239.5	-9879.1	0.00	0.00	9882.0	TD at 17689.5

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
LTP (MOODY ST COM #503H)	7939.0	240.1	-9916.1	410106.58	561920.68
PBHL (MOODY ST COM #503H)	7939.0	240.9	-9966.1	410107.42	561870.68
POI#1 (MOODY ST COM #503H)	7980.4	160.3	-5062.1	410026.80	566774.69
FTP (MOODY ST COM #503H)	8019.0	209.4	-62.1	410075.88	571774.71



DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MOODY ST COM PROJECT
MOODY ST COM #503H**

**OWB
PWP1**

Anticollision Report

06 April, 2021

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

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	4/6/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,689.5	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	17,689.5	10,905.3	126.1	30.0	1.312	Shut in Produces, CC, ES
MOODY ST COM #504H - OWB - PWP1	2,500.0	2,471.0	30.0	16.5	2.215	CC, ES, SF
MYOX 30 & 31 STATE PROJECT (ATLAS 2528)						
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,783.3	14,611.8	747.9	669.4	9.534	CC, ES
MYOX 21 ST COM #1H - OWB - ACTUAL WELLPATH	7,825.0	14,611.4	750.8	671.8	9.504	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		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-70.83	3,508.3	-10,092.0	10,684.4				
100.0	100.0	45.4	45.4	3.0	3.0	-70.83	3,508.4	-10,092.1	10,684.7	10,678.7	6.00	1,780.073	
200.0	200.0	100.0	100.0	3.0	3.0	-70.83	3,508.6	-10,092.5	10,685.5	10,679.5	6.04	1,769.653	
300.0	300.0	189.2	189.2	3.1	3.1	-70.83	3,509.4	-10,093.3	10,686.6	10,680.5	6.15	1,738.364	
400.0	400.0	562.5	562.4	3.2	3.8	-70.83	3,509.6	-10,092.4	10,686.4	10,679.6	6.73	1,587.423	
500.0	500.0	691.9	691.9	3.4	4.2	-70.83	3,508.0	-10,090.6	10,684.7	10,677.6	7.14	1,496.068	
600.0	600.0	842.3	842.2	3.5	4.6	-70.83	3,506.3	-10,088.0	10,682.6	10,674.9	7.68	1,391.451	
700.0	700.0	942.7	942.6	3.7	4.9	-70.84	3,505.2	-10,085.9	10,680.4	10,672.2	8.15	1,310.465	
800.0	800.0	1,034.9	1,034.8	4.0	5.1	-70.84	3,504.2	-10,084.1	10,678.1	10,669.5	8.63	1,237.289	
900.0	900.0	1,119.0	1,118.8	4.2	5.4	-70.84	3,503.3	-10,082.6	10,676.1	10,666.9	9.11	1,171.670	
1,000.0	1,000.0	1,200.0	1,199.8	4.5	5.6	-70.84	3,502.5	-10,081.2	10,674.1	10,664.5	9.61	1,111.292	
1,100.0	1,100.0	1,292.7	1,292.5	4.7	5.9	-70.84	3,501.5	-10,079.8	10,672.3	10,662.1	10.15	1,051.966	
1,200.0	1,200.0	1,381.6	1,381.4	5.0	6.2	-70.85	3,500.3	-10,078.6	10,670.6	10,659.9	10.68	998.651	
1,300.0	1,300.0	1,453.2	1,452.9	5.3	6.4	-70.85	3,499.3	-10,077.7	10,669.0	10,657.8	11.19	953.777	
1,400.0	1,400.0	1,526.0	1,525.7	5.6	6.7	-70.85	3,498.4	-10,077.0	10,667.7	10,656.0	11.70	911.683	
1,500.0	1,500.0	1,812.3	1,812.0	5.9	7.6	-70.86	3,496.5	-10,071.8	10,666.0	10,653.0	12.92	825.307	
1,600.0	1,600.0	2,059.4	2,059.0	6.2	8.4	-70.83	3,497.7	-10,062.3	10,662.7	10,648.6	14.10	756.103	
1,700.0	1,700.0	2,153.0	2,152.4	6.5	8.7	-70.82	3,498.2	-10,057.9	10,658.3	10,643.6	14.75	722.618	
1,800.0	1,800.0	2,200.0	2,199.4	6.9	8.8	-70.82	3,498.5	-10,055.7	10,654.3	10,639.0	15.24	699.176	
1,900.0	1,900.0	2,279.5	2,278.8	7.2	9.1	-70.81	3,499.0	-10,052.4	10,650.5	10,634.7	15.84	672.208	
2,000.0	2,000.0	2,348.9	2,348.2	7.5	9.3	-70.80	3,499.3	-10,049.8	10,647.2	10,630.7	16.42	648.558	

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 #503H
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Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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	2,430.9	2,430.1	7.8	9.6	-70.80	3,499.5	-10,047.0	10,644.0	10,627.0	17.04	624.832	
2,200.0	2,200.0	2,521.0	2,520.2	8.2	9.9	-70.79	3,499.6	-10,044.0	10,641.0	10,623.3	17.68	601.738	
2,300.0	2,300.0	2,600.0	2,599.1	8.5	10.2	-70.78	3,499.9	-10,041.6	10,638.1	10,619.9	18.30	581.434	
2,400.0	2,400.0	2,653.2	2,652.3	8.8	10.3	-70.78	3,500.1	-10,040.1	10,635.6	10,616.8	18.82	565.081	
2,500.0	2,500.0	2,719.8	2,718.8	9.2	10.6	-70.78	3,500.5	-10,038.4	10,633.5	10,614.1	19.40	548.250	
2,600.0	2,600.0	2,800.0	2,799.0	9.5	10.8	-67.53	3,500.9	-10,036.6	10,630.9	10,610.8	20.02	531.053	
2,700.0	2,699.8	2,924.1	2,923.1	9.9	11.2	-67.62	3,501.9	-10,033.7	10,626.9	10,606.1	20.80	510.997	
2,800.0	2,799.6	3,025.0	3,024.0	10.2	11.6	-67.65	3,502.4	-10,031.3	10,622.1	10,600.6	21.49	494.256	
2,900.0	2,899.4	3,100.0	3,099.0	10.5	11.8	-67.67	3,502.5	-10,029.7	10,617.5	10,595.4	22.09	480.540	
3,000.0	2,999.1	3,153.8	3,152.8	10.9	12.0	-67.69	3,502.6	-10,028.8	10,613.2	10,590.6	22.63	469.084	
3,100.0	3,098.9	3,200.0	3,198.9	11.2	12.2	-67.71	3,502.6	-10,028.1	10,609.4	10,586.2	23.13	458.678	
3,200.0	3,198.6	3,272.6	3,271.6	11.6	12.4	-67.73	3,502.8	-10,027.4	10,605.8	10,582.1	23.73	446.947	
3,300.0	3,298.4	3,373.1	3,372.1	11.9	12.7	-67.76	3,503.2	-10,026.7	10,602.6	10,578.2	24.43	434.024	
3,400.0	3,398.1	3,461.4	3,460.4	12.3	13.0	-67.79	3,503.7	-10,025.9	10,599.3	10,574.2	25.09	422.525	
3,500.0	3,497.9	3,550.1	3,549.0	12.6	13.3	-67.82	3,504.0	-10,025.3	10,596.2	10,570.5	25.74	411.588	
3,600.0	3,597.6	3,659.5	3,658.5	13.0	13.7	-67.85	3,504.4	-10,024.6	10,593.1	10,566.6	26.48	400.076	
3,700.0	3,697.4	3,759.0	3,757.9	13.3	14.0	-67.88	3,504.8	-10,023.9	10,589.9	10,562.7	27.17	389.696	
3,800.0	3,797.2	3,888.5	3,887.5	13.7	14.5	-67.93	3,504.7	-10,023.1	10,586.6	10,558.7	27.97	378.469	
3,900.0	3,896.9	3,975.7	3,974.7	14.0	14.8	-67.96	3,504.5	-10,022.4	10,583.2	10,554.6	28.62	369.830	
4,000.0	3,996.7	4,059.2	4,058.1	14.4	15.1	-67.99	3,504.1	-10,022.0	10,580.0	10,550.7	29.25	361.770	
4,100.0	4,096.4	4,144.2	4,143.1	14.7	15.4	-68.02	3,503.8	-10,021.6	10,576.9	10,547.0	29.88	353.998	
4,200.0	4,196.2	4,242.3	4,241.2	15.1	15.7	-68.05	3,503.6	-10,021.3	10,573.9	10,543.3	30.56	346.044	
4,300.0	4,295.9	4,353.9	4,352.8	15.4	16.1	-68.09	3,503.3	-10,020.9	10,570.8	10,539.5	31.28	337.909	
4,400.0	4,395.7	4,460.6	4,459.5	15.8	16.5	-68.13	3,502.9	-10,020.4	10,567.7	10,535.7	31.99	330.312	
4,500.0	4,495.5	4,559.2	4,558.1	16.1	16.7	-68.16	3,502.5	-10,020.0	10,564.5	10,532.5	32.69	322.824	
4,600.0	4,495.2	4,658.7	4,657.6	16.5	16.9	-68.19	3,502.1	-10,019.6	10,561.3	10,529.3	33.38	315.344	
4,700.0	4,695.0	4,758.2	4,756.9	16.8	17.2	-68.22	3,501.7	-10,019.2	10,558.1	10,526.1	34.06	307.864	
4,800.0	4,794.7	4,857.7	4,856.4	17.2	17.5	-68.25	3,501.3	-10,018.8	10,554.9	10,522.9	34.74	300.384	
4,900.0	4,894.5	4,957.2	4,956.0	17.5	17.8	-68.28	3,500.9	-10,018.4	10,551.7	10,519.7	35.42	292.904	
5,000.0	4,994.2	5,056.7	5,055.4	17.9	18.1	-68.31	3,500.5	-10,018.0	10,548.5	10,516.5	36.10	285.424	
5,100.0	5,094.0	5,156.2	5,154.9	18.3	18.5	-68.34	3,500.1	-10,017.6	10,545.3	10,513.3	36.78	277.944	
5,200.0	5,193.7	5,255.7	5,254.4	18.6	18.8	-68.37	3,499.7	-10,017.2	10,542.1	10,510.1	37.46	270.464	
5,300.0	5,293.5	5,355.2	5,354.1	19.0	19.2	-68.40	3,499.3	-10,016.8	10,538.9	10,506.9	38.14	262.984	
5,400.0	5,393.3	5,454.7	5,453.6	19.3	19.5	-68.43	3,498.9	-10,016.4	10,535.7	10,503.7	38.82	255.504	
5,415.3	5,408.6	5,459.9	5,458.8	19.4	19.6	-68.44	3,498.8	-10,016.3	10,535.4	10,503.4	38.91	254.884	
5,500.0	5,493.1	5,554.4	5,553.3	19.7	19.9	-68.47	3,498.4	-10,016.0	10,534.0	10,502.0	39.34	251.804	
5,600.0	5,592.9	5,653.9	5,652.8	20.0	20.2	-68.50	3,498.0	-10,015.6	10,532.6	10,500.6	39.77	248.724	
5,700.0	5,692.7	5,753.4	5,752.3	20.4	20.6	-68.53	3,497.6	-10,015.2	10,531.2	10,499.2	40.20	245.644	
5,800.0	5,792.5	5,852.9	5,851.8	20.7	20.9	-68.56	3,497.2	-10,014.8	10,529.8	10,497.8	40.63	242.564	
5,815.3	5,808.2	5,858.1	5,857.0	20.8	21.0	-68.57	3,497.1	-10,014.7	10,529.7	10,497.7	40.68	242.284	
5,900.0	5,892.9	5,957.6	5,956.5	21.1	21.3	-68.60	3,496.7	-10,014.3	10,528.3	10,496.3	41.06	239.204	
6,000.0	5,992.9	6,057.1	6,056.0	21.5	21.7	-68.63	3,496.3	-10,013.9	10,526.9	10,494.9	41.49	236.124	
6,100.0	6,092.9	6,156.6	6,155.5	21.8	22.0	-68.66	3,495.9	-10,013.5	10,525.5	10,493.5	41.92	233.044	
6,200.0	6,192.9	6,256.1	6,255.0	22.2	22.4	-68.69	3,495.5	-10,013.1	10,524.1	10,492.1	42.35	230.964	
6,300.0	6,292.9	6,355.6	6,354.5	22.5	22.7	-68.72	3,495.1	-10,012.7	10,522.7	10,490.7	42.78	227.884	
6,400.0	6,392.9	6,455.1	6,454.0	22.9	23.1	-68.75	3,494.7	-10,012.3	10,521.3	10,489.3	43.21	224.804	
6,500.0	6,492.9	6,554.6	6,553.5	23.2	23.4	-68.78	3,494.3	-10,011.9	10,519.9	10,487.9	43.64	221.724	
6,600.0	6,592.9	6,654.1	6,653.0	23.6	23.8	-68.81	3,493.9	-10,011.5	10,518.5	10,486.5	44.07	218.644	
6,700.0	6,692.9	6,753.6	6,752.5	23.9	24.1	-68.84	3,493.5	-10,011.1	10,517.1	10,485.1	44.50	215.564	
6,800.0	6,792.9	6,853.1	6,851.9	24.3	24.5	-68.87	3,493.1	-10,010.7	10,515.7	10,483.7	44.93	212.484	
6,900.0	6,892.9	6,952.6	6,951.5	24.6	24.8	-68.90	3,492.7	-10,010.3	10,514.3	10,482.3	45.36	209.404	
7,000.0	6,992.9	7,052.1	7,051.0	25.0	25.2	-68.93	3,492.3	-10,010.0	10,512.9	10,480.9	45.79	206.324	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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	
7,100.0	7,092.9	10,962.0	7,907.5	25.4	60.7	-90.17	179.8	-9,999.2	10,020.1	9,934.4	85.72	116.890	
7,200.0	7,192.9	10,962.0	7,907.5	25.7	60.7	-90.17	179.8	-9,999.2	10,012.5	9,926.3	86.13	116.249	
7,300.0	7,292.9	10,962.0	7,907.5	26.1	60.7	-90.17	179.8	-9,999.2	10,005.9	9,919.3	86.53	115.633	
7,400.0	7,392.9	10,962.0	7,907.5	26.4	60.7	-90.17	179.8	-9,999.2	10,000.3	9,913.3	86.93	115.043	
7,500.0	7,492.9	10,962.0	7,907.5	26.8	60.7	-90.17	179.8	-9,999.2	9,995.6	9,908.3	87.32	114.478	
7,548.7	7,541.6	10,962.0	7,907.5	26.9	60.7	-90.17	179.8	-9,999.2	9,993.7	9,906.2	87.50	114.212	
7,550.0	7,542.9	10,962.0	7,907.5	26.9	60.7	0.39	179.8	-9,999.2	9,993.7	9,906.2	87.51	114.205	
7,575.0	7,567.9	10,962.0	7,907.5	27.0	60.7	0.39	179.8	-9,999.2	9,992.1	9,904.5	87.60	114.068	
7,600.0	7,592.8	10,962.0	7,907.5	27.1	60.7	0.39	179.8	-9,999.2	9,989.3	9,901.6	87.69	113.917	
7,625.0	7,617.6	10,962.0	7,907.5	27.2	60.7	0.40	179.8	-9,999.2	9,985.2	9,897.4	87.78	113.754	
7,650.0	7,642.1	10,962.0	7,907.5	27.3	60.7	0.40	179.8	-9,999.2	9,979.9	9,892.0	87.87	113.578	
7,675.0	7,666.4	10,962.0	7,907.5	27.4	60.7	0.41	179.8	-9,999.2	9,973.4	9,885.4	87.96	113.392	
7,700.0	7,690.4	10,962.0	7,907.5	27.5	60.7	0.42	179.8	-9,999.2	9,965.7	9,877.6	88.04	113.195	
7,725.0	7,713.9	10,962.0	7,907.5	27.5	60.7	0.42	179.8	-9,999.2	9,956.8	9,868.7	88.12	112.988	
7,750.0	7,737.0	10,962.0	7,907.5	27.6	60.7	0.43	179.8	-9,999.2	9,946.8	9,858.6	88.20	112.772	
7,775.0	7,759.5	10,962.0	7,907.5	27.7	60.7	0.44	179.8	-9,999.2	9,935.6	9,847.3	88.28	112.547	
7,800.0	7,781.5	10,962.0	7,907.5	27.8	60.7	0.46	179.8	-9,999.2	9,923.3	9,835.0	88.35	112.314	
7,825.0	7,802.7	10,962.0	7,907.5	27.9	60.7	0.47	179.8	-9,999.2	9,909.9	9,821.5	88.42	112.074	
7,850.0	7,823.3	10,962.0	7,907.5	27.9	60.7	0.49	179.8	-9,999.2	9,895.5	9,807.1	88.49	111.827	
7,875.0	7,843.1	10,962.0	7,907.5	28.0	60.7	0.51	179.8	-9,999.2	9,880.1	9,791.6	88.55	111.574	
7,900.0	7,862.0	10,962.0	7,907.5	28.1	60.7	0.54	179.8	-9,999.2	9,863.7	9,775.1	88.61	111.316	
7,925.0	7,880.1	10,962.0	7,907.5	28.2	60.7	0.56	179.8	-9,999.2	9,846.4	9,757.8	88.66	111.052	
7,950.0	7,897.3	10,962.0	7,907.5	28.2	60.7	0.60	179.8	-9,999.2	9,828.2	9,739.5	88.72	110.784	
7,975.0	7,913.5	10,962.0	7,907.5	28.3	60.7	0.63	179.8	-9,999.2	9,809.2	9,720.4	88.76	110.512	
8,000.0	7,928.6	10,962.0	7,907.5	28.4	60.7	0.68	179.8	-9,999.2	9,789.3	9,700.5	88.80	110.237	
8,025.0	7,942.7	10,962.0	7,907.5	28.4	60.7	0.73	179.8	-9,999.2	9,768.7	9,679.9	88.84	109.958	
8,050.0	7,955.7	10,962.0	7,907.5	28.5	60.7	0.80	179.8	-9,999.2	9,747.4	9,658.6	88.87	109.678	
8,075.0	7,967.6	10,962.0	7,907.5	28.6	60.7	0.88	179.8	-9,999.2	9,725.5	9,636.6	88.90	109.395	
8,100.0	7,978.3	10,962.0	7,907.5	28.6	60.7	0.98	179.8	-9,999.2	9,703.0	9,614.1	88.93	109.111	
8,125.0	7,987.8	10,962.0	7,907.5	28.7	60.7	1.11	179.8	-9,999.2	9,680.0	9,591.0	88.95	108.825	
8,150.0	7,996.1	10,962.0	7,907.5	28.8	60.7	1.28	179.8	-9,999.2	9,656.4	9,567.5	88.97	108.539	
8,175.0	8,003.1	10,962.0	7,907.5	28.8	60.7	1.52	179.8	-9,999.2	9,632.5	9,543.5	88.98	108.253	
8,200.0	8,008.9	10,962.0	7,907.5	28.9	60.7	1.88	179.8	-9,999.2	9,608.3	9,519.3	88.99	107.966	
8,225.0	8,013.4	10,962.0	7,907.5	28.9	60.7	2.47	179.8	-9,999.2	9,583.7	9,494.7	89.00	107.680	
8,250.0	8,016.6	10,962.0	7,907.5	29.0	60.7	3.59	179.8	-9,999.2	9,559.0	9,470.0	89.01	107.394	
8,275.0	8,018.5	10,962.0	7,907.5	29.0	60.7	6.62	179.8	-9,999.2	9,534.1	9,445.1	89.01	107.110	
8,300.0	8,019.1	10,962.0	7,907.5	29.1	60.7	37.51	179.8	-9,999.2	9,509.1	9,420.1	89.01	106.826	
8,302.7	8,019.0	10,962.0	7,907.5	29.1	60.7	63.36	179.8	-9,999.2	9,506.4	9,417.3	89.01	106.795	
8,400.0	8,018.2	10,962.0	7,907.5	29.3	60.7	63.36	179.8	-9,999.2	9,409.1	9,320.1	89.02	105.696	
8,500.0	8,017.4	10,962.0	7,907.5	29.5	60.7	63.36	179.8	-9,999.2	9,309.1	9,220.1	89.03	104.565	
8,600.0	8,016.5	10,962.0	7,907.5	29.8	60.7	63.36	179.8	-9,999.2	9,209.1	9,120.1	89.03	103.434	
8,700.0	8,015.7	10,962.0	7,907.5	30.1	60.7	63.36	179.8	-9,999.2	9,109.1	9,020.1	89.04	102.301	
8,800.0	8,014.8	10,962.0	7,907.5	30.5	60.7	63.36	179.8	-9,999.2	9,009.1	8,920.1	89.05	101.167	
8,900.0	8,014.0	10,962.0	7,907.5	30.9	60.7	63.36	179.8	-9,999.2	8,909.1	8,820.1	89.06	100.033	
9,000.0	8,013.1	10,962.0	7,907.5	31.3	60.7	63.36	179.8	-9,999.2	8,809.1	8,720.0	89.07	98.898	
9,100.0	8,012.3	10,962.0	7,907.5	31.8	60.7	63.36	179.8	-9,999.2	8,709.1	8,620.0	89.09	97.762	
9,200.0	8,011.5	10,962.0	7,907.5	32.3	60.7	63.36	179.8	-9,999.2	8,609.1	8,520.0	89.10	96.625	
9,300.0	8,010.6	10,962.0	7,907.5	32.8	60.7	63.36	179.8	-9,999.2	8,509.1	8,420.0	89.11	95.488	
9,400.0	8,009.8	10,962.0	7,907.5	33.4	60.7	63.36	179.8	-9,999.2	8,409.1	8,320.0	89.13	94.350	
9,500.0	8,008.9	10,962.0	7,907.5	34.0	60.7	63.36	179.8	-9,999.2	8,309.1	8,220.0	89.14	93.211	
9,600.0	8,008.1	10,962.0	7,907.5	34.6	60.7	63.36	179.8	-9,999.2	8,209.1	8,120.0	89.16	92.072	
9,700.0	8,007.2	10,962.0	7,907.5	35.2	60.7	63.36	179.8	-9,999.2	8,109.2	8,020.0	89.18	90.932	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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	
9,800.0	8,006.4	10,962.0	7,907.5	35.9	60.7	63.36	179.8	-9,999.2	8,009.2	7,920.0	89.20	89.792	
9,900.0	8,005.5	10,962.0	7,907.5	36.6	60.7	63.36	179.8	-9,999.2	7,909.2	7,819.9	89.22	88.652	
10,000.0	8,004.7	10,962.0	7,907.5	37.3	60.7	63.36	179.8	-9,999.2	7,809.2	7,719.9	89.24	87.511	
10,100.0	8,003.8	10,962.0	7,907.5	38.0	60.7	63.36	179.8	-9,999.2	7,709.2	7,619.9	89.26	86.369	
10,200.0	8,003.0	10,962.0	7,907.5	38.7	60.7	63.36	179.8	-9,999.2	7,609.2	7,519.9	89.28	85.228	
10,300.0	8,002.2	10,962.0	7,907.5	39.5	60.7	63.36	179.8	-9,999.2	7,509.2	7,419.9	89.30	84.086	
10,400.0	8,001.3	10,962.0	7,907.5	40.3	60.7	63.36	179.8	-9,999.2	7,409.2	7,319.9	89.33	82.943	
10,500.0	8,000.5	10,962.0	7,907.5	41.1	60.7	63.36	179.8	-9,999.2	7,309.2	7,219.8	89.35	81.801	
10,600.0	7,999.6	10,962.0	7,907.5	41.9	60.7	63.36	179.8	-9,999.2	7,209.2	7,119.8	89.38	80.658	
10,700.0	7,998.8	10,962.0	7,907.5	42.7	60.7	63.36	179.8	-9,999.2	7,109.2	7,019.8	89.41	79.516	
10,800.0	7,997.9	10,962.0	7,907.5	43.5	60.7	63.36	179.8	-9,999.2	7,009.2	6,919.8	89.43	78.373	
10,900.0	7,997.1	10,962.0	7,907.5	44.4	60.7	63.36	179.8	-9,999.2	6,909.2	6,819.7	89.46	77.230	
11,000.0	7,996.2	10,962.0	7,907.5	45.2	60.7	63.36	179.8	-9,999.2	6,809.2	6,719.7	89.49	76.087	
11,100.0	7,995.4	10,962.0	7,907.5	46.1	60.7	63.36	179.8	-9,999.2	6,709.2	6,619.7	89.52	74.944	
11,200.0	7,994.5	10,962.0	7,907.5	47.0	60.7	63.36	179.8	-9,999.2	6,609.2	6,519.7	89.56	73.801	
11,300.0	7,993.7	10,962.0	7,907.5	47.9	60.7	63.36	179.8	-9,999.2	6,509.2	6,419.7	89.59	72.658	
11,400.0	7,992.8	10,962.0	7,907.5	48.8	60.7	63.36	179.8	-9,999.2	6,409.2	6,319.6	89.62	71.515	
11,500.0	7,992.0	10,962.0	7,907.5	49.7	60.7	63.36	179.8	-9,999.2	6,309.3	6,219.6	89.65	70.373	
11,600.0	7,991.2	10,962.0	7,907.5	50.6	60.7	63.36	179.8	-9,999.2	6,209.3	6,119.6	89.69	69.230	
11,700.0	7,990.3	10,962.0	7,907.5	51.5	60.7	63.36	179.8	-9,999.2	6,109.3	6,019.5	89.73	68.088	
11,800.0	7,989.5	10,962.0	7,907.5	52.4	60.7	63.36	179.8	-9,999.2	6,009.3	5,919.5	89.76	66.946	
11,900.0	7,988.6	10,962.0	7,907.5	53.4	60.7	63.36	179.8	-9,999.2	5,909.3	5,819.5	89.80	65.804	
12,000.0	7,987.8	10,962.0	7,907.5	54.3	60.7	63.36	179.8	-9,999.2	5,809.3	5,719.5	89.84	64.663	
12,100.0	7,986.9	10,962.0	7,907.5	55.3	60.7	63.36	179.8	-9,999.2	5,709.3	5,619.4	89.88	63.522	
12,200.0	7,986.1	10,962.0	7,907.5	56.2	60.7	63.36	179.8	-9,999.2	5,609.3	5,519.4	89.92	62.382	
12,300.0	7,985.2	10,967.4	7,907.6	57.2	60.7	61.50	174.4	-9,999.2	5,509.3	5,419.3	90.04	61.187	
12,400.0	7,984.4	10,968.4	7,907.6	58.2	60.8	61.11	173.4	-9,999.2	5,409.3	5,319.2	90.10	60.038	
12,500.0	7,983.5	10,969.5	7,907.6	59.1	60.8	60.71	172.3	-9,999.2	5,309.3	5,219.2	90.16	58.890	
12,600.0	7,982.7	10,970.5	7,907.7	60.1	60.8	60.30	171.3	-9,999.2	5,209.3	5,119.1	90.22	57.742	
12,700.0	7,981.9	10,971.6	7,907.7	61.1	60.8	59.87	170.2	-9,999.2	5,109.4	5,019.1	90.28	56.596	
12,800.0	7,981.0	10,972.6	7,907.7	62.1	60.8	59.43	169.2	-9,999.2	5,009.4	4,919.0	90.34	55.451	
12,871.6	7,980.4	10,973.4	7,907.7	62.8	60.8	59.11	168.4	-9,999.2	4,937.7	4,847.4	90.38	54.631	
12,900.0	7,980.2	10,973.6	7,907.7	63.1	60.8	12.86	168.2	-9,999.2	4,909.4	4,819.0	90.40	54.308	
12,947.5	7,979.8	10,973.3	7,907.7	63.5	60.8	-64.80	168.5	-9,999.2	4,861.9	4,771.5	90.42	53.772	
13,000.0	7,979.3	10,972.6	7,907.7	64.1	60.8	-64.57	169.2	-9,999.2	4,809.4	4,718.9	90.43	53.183	
13,100.0	7,978.5	10,971.2	7,907.7	65.1	60.8	-64.13	170.6	-9,999.2	4,709.4	4,618.9	90.46	52.061	
13,200.0	7,977.6	10,969.8	7,907.6	66.1	60.8	-63.67	172.0	-9,999.2	4,609.4	4,518.9	90.49	50.939	
13,300.0	7,976.8	10,968.5	7,907.6	67.1	60.8	-63.19	173.3	-9,999.2	4,509.4	4,418.9	90.52	49.818	
13,400.0	7,976.0	10,967.1	7,907.6	68.1	60.7	-62.70	174.7	-9,999.2	4,409.4	4,318.9	90.55	48.698	
13,500.0	7,975.1	10,965.7	7,907.6	69.1	60.7	-62.19	176.1	-9,999.2	4,309.4	4,218.9	90.58	47.577	
13,600.0	7,974.3	10,962.0	7,907.5	70.1	60.7	-60.73	179.8	-9,999.2	4,209.5	4,118.9	90.57	46.475	
13,700.0	7,973.5	10,962.0	7,907.5	71.1	60.7	-60.73	179.8	-9,999.2	4,109.5	4,018.9	90.63	45.344	
13,800.0	7,972.6	10,962.0	7,907.5	72.2	60.7	-60.73	179.8	-9,999.2	4,009.5	3,918.8	90.68	44.215	
13,900.0	7,971.8	10,962.0	7,907.5	73.2	60.7	-60.73	179.8	-9,999.2	3,909.5	3,818.8	90.74	43.086	
14,000.0	7,970.9	10,962.0	7,907.5	74.2	60.7	-60.73	179.8	-9,999.2	3,809.5	3,718.7	90.79	41.958	
14,100.0	7,970.1	10,962.0	7,907.5	75.2	60.7	-60.73	179.8	-9,999.2	3,709.5	3,618.7	90.85	40.832	
14,200.0	7,969.3	10,962.0	7,907.5	76.3	60.7	-60.73	179.8	-9,999.2	3,609.6	3,518.7	90.91	39.706	
14,300.0	7,968.4	10,962.0	7,907.5	77.3	60.7	-60.73	179.8	-9,999.2	3,509.6	3,418.6	90.97	38.581	
14,400.0	7,967.6	10,962.0	7,907.5	78.4	60.7	-60.73	179.8	-9,999.2	3,409.6	3,318.6	91.03	37.458	
14,500.0	7,966.8	10,962.0	7,907.5	79.4	60.7	-60.73	179.8	-9,999.2	3,309.6	3,218.5	91.09	36.335	
14,600.0	7,965.9	10,962.0	7,907.5	80.4	60.7	-60.73	179.8	-9,999.2	3,209.6	3,118.5	91.15	35.214	
14,700.0	7,965.1	10,962.0	7,907.5	81.5	60.7	-60.73	179.8	-9,999.2	3,109.7	3,018.5	91.21	34.094	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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	
14,800.0	7,964.2	10,962.0	7,907.5	82.5	60.7	-60.73	179.8	-9,999.2	3,009.7	2,918.4	91.27	32.975	
14,900.0	7,963.4	10,962.0	7,907.5	83.6	60.7	-60.73	179.8	-9,999.2	2,909.7	2,818.4	91.34	31.857	
15,000.0	7,962.6	10,962.0	7,907.5	84.6	60.7	-60.73	179.8	-9,999.2	2,809.8	2,718.4	91.40	30.741	
15,100.0	7,961.7	10,962.0	7,907.5	85.7	60.7	-60.73	179.8	-9,999.2	2,709.8	2,618.3	91.47	29.626	
15,200.0	7,960.9	10,962.0	7,907.5	86.7	60.7	-60.73	179.8	-9,999.2	2,609.8	2,518.3	91.53	28.512	
15,300.0	7,960.1	10,962.0	7,907.5	87.8	60.7	-60.73	179.8	-9,999.2	2,509.9	2,418.3	91.60	27.399	
15,400.0	7,959.2	10,962.0	7,907.5	88.8	60.7	-60.73	179.8	-9,999.2	2,409.9	2,318.2	91.67	26.288	
15,500.0	7,958.4	10,962.0	7,907.5	89.9	60.7	-60.73	179.8	-9,999.2	2,310.0	2,218.2	91.75	25.178	
15,600.0	7,957.5	10,962.0	7,907.5	91.0	60.7	-60.73	179.8	-9,999.2	2,210.0	2,118.2	91.82	24.069	
15,700.0	7,956.7	10,962.0	7,907.5	92.0	60.7	-60.73	179.8	-9,999.2	2,110.1	2,018.2	91.89	22.962	
15,800.0	7,955.9	10,943.3	7,907.1	93.1	60.4	-50.82	198.5	-9,999.2	2,010.0	1,918.3	91.66	21.929	
15,900.0	7,955.0	10,941.9	7,907.0	94.1	60.4	-49.93	199.9	-9,999.2	1,910.0	1,818.3	91.71	20.827	
16,000.0	7,954.2	10,940.6	7,907.0	95.2	60.3	-48.97	201.2	-9,999.2	1,810.1	1,718.3	91.76	19.726	
16,100.0	7,953.4	10,939.2	7,907.0	96.3	60.3	-47.92	202.6	-9,999.3	1,710.1	1,618.3	91.81	18.626	
16,200.0	7,952.5	10,937.7	7,906.9	97.3	60.3	-46.79	204.1	-9,999.3	1,610.1	1,518.3	91.87	17.527	
16,300.0	7,951.7	10,936.2	7,906.9	98.4	60.3	-45.56	205.6	-9,999.3	1,510.2	1,418.3	91.92	16.430	
16,400.0	7,950.8	10,934.6	7,906.8	99.5	60.2	-44.22	207.2	-9,999.3	1,410.3	1,318.3	91.97	15.333	
16,500.0	7,950.0	10,932.9	7,906.8	100.5	60.2	-42.76	208.9	-9,999.3	1,310.3	1,218.3	92.03	14.238	
16,600.0	7,949.2	10,931.2	7,906.8	101.6	60.2	-41.15	210.6	-9,999.3	1,210.4	1,118.3	92.08	13.145	
16,700.0	7,948.3	10,929.3	7,906.7	102.7	60.2	-39.39	212.5	-9,999.3	1,110.5	1,018.3	92.14	12.052	
16,800.0	7,947.5	10,927.4	7,906.7	103.8	60.1	-37.45	214.4	-9,999.3	1,010.6	918.4	92.20	10.961	
16,900.0	7,946.6	10,925.4	7,906.6	104.8	60.1	-35.30	216.4	-9,999.4	910.7	818.4	92.26	9.871	
17,000.0	7,945.8	10,923.3	7,906.6	105.9	60.1	-32.93	218.5	-9,999.4	810.8	718.5	92.32	8.782	
17,100.0	7,945.0	10,921.1	7,906.5	107.0	60.0	-30.29	220.7	-9,999.4	710.9	618.6	92.39	7.695	
17,200.0	7,944.1	10,918.7	7,906.4	108.1	60.0	-27.37	223.0	-9,999.4	611.1	518.7	92.47	6.609	
17,300.0	7,943.3	10,916.3	7,906.4	109.1	60.0	-24.13	225.5	-9,999.5	511.4	418.8	92.58	5.524	
17,400.0	7,942.5	10,913.7	7,906.3	110.2	59.9	-20.53	228.1	-9,999.5	411.7	319.0	92.74	4.439	
17,500.0	7,941.6	10,911.0	7,906.2	111.3	59.9	-16.56	230.8	-9,999.5	312.3	219.2	93.04	3.356	
17,600.0	7,940.8	10,908.1	7,906.1	112.4	59.9	-12.19	233.7	-9,999.6	213.3	119.5	93.78	2.275	
17,689.5	7,940.0	10,905.3	7,906.1	113.3	59.8	-7.93	236.5	-9,999.6	126.1	30.0	96.10	1.312	Shut in Produces, CC, ES, SF

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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, 7580-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	179.45	-30.0	0.3	41.7				
100.0	100.0	71.0	71.0	3.0	3.0	179.45	-30.0	0.3	30.0	24.0	6.00	4.999	
200.0	200.0	171.0	171.0	3.0	3.0	179.45	-30.0	0.3	30.0	24.0	6.03	4.972	
300.0	300.0	271.0	271.0	3.1	3.0	179.45	-30.0	0.3	30.0	23.9	6.11	4.907	
400.0	400.0	371.0	371.0	3.2	3.0	179.45	-30.0	0.3	30.0	23.8	6.24	4.809	
500.0	500.0	471.0	471.0	3.4	3.0	179.45	-30.0	0.3	30.0	23.6	6.40	4.685	
600.0	600.0	571.0	571.0	3.5	3.1	179.45	-30.0	0.3	30.0	23.4	6.61	4.542	
700.0	700.0	671.0	671.0	3.7	3.1	179.45	-30.0	0.3	30.0	23.2	6.84	4.387	
800.0	800.0	771.0	771.0	4.0	3.1	179.45	-30.0	0.3	30.0	22.9	7.10	4.226	
900.0	900.0	871.0	871.0	4.2	3.2	179.45	-30.0	0.3	30.0	22.6	7.38	4.064	
1,000.0	1,000.0	971.0	971.0	4.5	3.2	179.45	-30.0	0.3	30.0	22.3	7.69	3.903	
1,100.0	1,100.0	1,071.0	1,071.0	4.7	3.3	179.45	-30.0	0.3	30.0	22.0	8.01	3.746	
1,200.0	1,200.0	1,171.0	1,171.0	5.0	3.3	179.45	-30.0	0.3	30.0	21.7	8.35	3.594	
1,300.0	1,300.0	1,271.0	1,271.0	5.3	3.4	179.45	-30.0	0.3	30.0	21.3	8.70	3.449	
1,400.0	1,400.0	1,371.0	1,371.0	5.6	3.5	179.45	-30.0	0.3	30.0	20.9	9.06	3.311	
1,500.0	1,500.0	1,471.0	1,471.0	5.9	3.5	179.45	-30.0	0.3	30.0	20.6	9.44	3.180	
1,600.0	1,600.0	1,571.0	1,571.0	6.2	3.6	179.45	-30.0	0.3	30.0	20.2	9.82	3.056	
1,700.0	1,700.0	1,671.0	1,671.0	6.5	3.7	179.45	-30.0	0.3	30.0	19.8	10.21	2.939	
1,800.0	1,800.0	1,771.0	1,771.0	6.9	3.7	179.45	-30.0	0.3	30.0	19.4	10.61	2.829	
1,900.0	1,900.0	1,871.0	1,871.0	7.2	3.8	179.45	-30.0	0.3	30.0	19.0	11.01	2.725	
2,000.0	2,000.0	1,971.0	1,971.0	7.5	3.9	179.45	-30.0	0.3	30.0	18.6	11.42	2.627	
2,100.0	2,100.0	2,071.0	2,071.0	7.8	4.0	179.45	-30.0	0.3	30.0	18.2	11.84	2.534	
2,200.0	2,200.0	2,171.0	2,171.0	8.2	4.1	179.45	-30.0	0.3	30.0	17.7	12.26	2.448	
2,300.0	2,300.0	2,271.0	2,271.0	8.5	4.2	179.45	-30.0	0.3	30.0	17.3	12.68	2.365	
2,400.0	2,400.0	2,371.0	2,371.0	8.8	4.3	179.45	-30.0	0.3	30.0	16.9	13.11	2.288	
2,500.0	2,500.0	2,471.0	2,471.0	9.2	4.4	179.45	-30.0	0.3	30.0	16.5	13.55	2.215 CC, ES, SF	
2,600.0	2,600.0	2,570.2	2,570.2	9.5	4.4	-177.75	-30.8	0.5	32.6	18.7	13.93	2.340	
2,700.0	2,699.8	2,668.5	2,668.4	9.9	4.4	-179.29	-34.8	1.5	41.9	27.6	14.24	2.942	
2,800.0	2,799.6	2,765.8	2,765.5	10.2	4.4	179.12	-42.0	3.3	56.3	41.8	14.52	3.876	
2,900.0	2,899.4	2,863.7	2,862.8	10.5	4.3	177.85	-51.7	5.7	73.3	58.5	14.81	4.949	
3,000.0	2,999.1	2,962.2	2,960.7	10.9	4.3	177.03	-61.7	8.2	90.6	75.4	15.12	5.988	
3,100.0	3,098.9	3,060.7	3,058.7	11.2	4.3	176.47	-71.7	10.7	107.8	92.4	15.44	6.983	
3,200.0	3,198.6	3,159.2	3,156.6	11.6	4.3	176.07	-81.7	13.2	125.1	109.3	15.76	7.936	
3,300.0	3,298.4	3,257.6	3,254.6	11.9	4.3	175.76	-91.6	15.7	142.4	126.3	16.09	8.848	
3,400.0	3,398.1	3,356.1	3,352.5	12.3	4.3	175.52	-101.6	18.2	159.7	143.2	16.42	9.721	
3,500.0	3,497.9	3,454.6	3,450.5	12.6	4.3	175.33	-111.6	20.6	176.9	160.2	16.76	10.557	
3,600.0	3,597.6	3,553.1	3,548.5	13.0	4.3	175.17	-121.6	23.1	194.2	177.1	17.10	11.356	
3,700.0	3,697.4	3,651.6	3,646.4	13.3	4.3	175.04	-131.6	25.6	211.5	194.1	17.45	12.121	
3,800.0	3,797.2	3,750.1	3,744.4	13.7	4.3	174.93	-141.6	28.1	228.8	211.0	17.80	12.854	
3,900.0	3,896.9	3,848.6	3,842.3	14.0	4.3	174.83	-151.6	30.6	246.1	227.9	18.16	13.554	
4,000.0	3,996.7	3,947.1	3,940.3	14.4	4.3	174.75	-161.6	33.1	263.4	244.9	18.52	14.225	
4,100.0	4,096.4	4,045.6	4,038.2	14.7	4.3	174.67	-171.6	35.6	280.7	261.8	18.88	14.866	
4,200.0	4,196.2	4,144.1	4,136.2	15.1	4.3	174.61	-181.5	38.1	298.0	278.7	19.25	15.480	
4,300.0	4,295.9	4,242.6	4,234.1	15.4	4.4	174.55	-191.5	40.6	315.2	295.6	19.62	16.068	
4,400.0	4,395.7	4,341.1	4,332.1	15.8	4.4	174.50	-201.5	43.1	332.5	312.5	20.00	16.630	
4,500.0	4,495.5	4,439.6	4,430.0	16.1	4.5	174.45	-211.5	45.5	349.8	329.4	20.38	17.168	
4,600.0	4,595.2	4,538.1	4,528.0	16.5	4.5	174.41	-221.5	48.0	367.1	346.4	20.76	17.683	
4,700.0	4,695.0	4,636.6	4,625.9	16.8	4.6	174.37	-231.5	50.5	384.4	363.3	21.15	18.177	
4,800.0	4,794.7	4,735.0	4,723.9	17.2	4.6	174.34	-241.5	53.0	401.7	380.2	21.54	18.649	
4,900.0	4,894.5	4,833.5	4,821.9	17.5	4.7	174.30	-251.5	55.5	419.0	397.1	21.93	19.102	
5,000.0	4,994.2	4,932.0	4,919.8	17.9	4.8	174.28	-261.5	58.0	436.3	413.9	22.33	19.536	
5,100.0	5,094.0	5,030.5	5,017.8	18.3	4.8	174.25	-271.5	60.5	453.6	430.8	22.73	19.951	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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 #504H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7580-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,193.7	5,129.0	5,115.7	18.6	4.9	174.22	-281.4	63.0	470.9	447.7	23.14	20.350	
5,300.0	5,293.5	5,227.5	5,213.7	19.0	5.0	174.20	-291.4	65.5	488.2	464.6	23.55	20.732	
5,400.0	5,393.3	5,326.0	5,311.6	19.3	5.1	174.18	-301.4	68.0	505.4	481.5	23.96	21.098	
5,415.3	5,408.6	5,341.1	5,326.7	19.4	5.1	174.17	-303.0	68.3	508.1	484.1	24.02	21.153	
5,500.0	5,493.1	5,424.6	5,409.7	19.7	5.1	174.16	-311.4	70.5	522.1	497.8	24.37	21.425	
5,600.0	5,592.9	5,523.5	5,508.0	20.0	5.2	174.13	-321.5	73.0	537.1	512.3	24.79	21.670	
5,700.0	5,692.9	5,622.6	5,606.6	20.4	5.3	174.09	-331.5	75.5	550.4	525.2	25.20	21.837	
5,800.0	5,792.9	5,721.9	5,705.4	20.7	5.4	174.02	-341.6	78.0	561.9	536.3	25.62	21.929	
5,815.3	5,808.2	5,737.2	5,720.5	20.8	5.4	170.71	-343.1	78.4	563.5	537.9	25.69	21.937	
5,900.0	5,892.9	5,821.4	5,804.3	21.1	5.5	170.64	-351.7	80.5	572.4	546.3	26.05	21.973	
6,000.0	5,992.9	5,920.8	5,903.2	21.5	5.5	170.56	-361.8	83.0	582.8	556.3	26.47	22.013	
6,100.0	6,092.9	6,020.3	6,002.1	21.8	5.6	170.48	-371.8	85.5	593.2	566.3	26.90	22.051	
6,200.0	6,192.9	6,119.7	6,101.0	22.2	5.7	170.40	-381.9	88.0	603.6	576.3	27.33	22.085	
6,300.0	6,292.9	6,219.2	6,199.9	22.5	5.8	170.32	-392.0	90.5	614.0	586.3	27.76	22.116	
6,400.0	6,392.9	6,318.6	6,298.8	22.9	5.9	170.25	-402.1	93.1	624.5	596.3	28.20	22.145	
6,500.0	6,492.9	6,418.1	6,397.7	23.2	6.0	170.18	-412.2	95.6	634.9	606.3	28.64	22.172	
6,600.0	6,592.9	6,517.5	6,496.6	23.6	6.1	170.11	-422.3	98.1	645.3	616.2	29.07	22.196	
6,700.0	6,692.9	6,617.0	6,595.5	23.9	6.2	170.05	-432.4	100.6	655.7	626.2	29.51	22.219	
6,800.0	6,792.9	6,716.4	6,694.4	24.3	6.3	169.98	-442.4	103.1	666.2	636.2	29.95	22.240	
6,900.0	6,892.9	6,815.9	6,793.3	24.6	6.4	169.92	-452.5	105.6	676.6	646.2	30.40	22.259	
7,000.0	6,992.9	6,915.3	6,892.2	25.0	6.5	169.86	-462.6	108.2	687.0	656.2	30.84	22.276	
7,100.0	7,092.9	7,014.8	6,991.2	25.4	6.6	169.81	-472.7	110.7	697.5	666.2	31.29	22.292	
7,200.0	7,192.9	7,114.2	7,090.1	25.7	6.7	169.75	-482.8	113.2	707.9	676.2	31.74	22.306	
7,300.0	7,292.9	7,213.7	7,189.0	26.1	6.8	169.69	-492.9	115.7	718.3	686.1	32.18	22.319	
7,400.0	7,392.9	7,313.1	7,287.9	26.4	6.9	169.64	-503.0	118.2	728.8	696.1	32.63	22.331	
7,500.0	7,492.9	7,412.6	7,386.8	26.8	7.0	169.59	-513.1	120.7	739.2	706.1	33.09	22.342	
7,548.7	7,541.6	7,461.0	7,435.0	26.9	7.0	169.57	-518.0	122.0	744.3	711.0	33.31	22.347	
7,550.0	7,542.9	7,462.3	7,436.2	26.9	7.0	-99.85	-518.1	122.0	744.4	711.1	33.31	22.347	
7,575.0	7,567.9	7,487.2	7,460.9	27.0	7.0	-99.60	-520.6	122.6	747.1	713.7	33.42	22.356	
7,600.0	7,592.8	7,511.9	7,485.5	27.1	7.1	-99.41	-523.1	123.2	750.1	716.6	33.52	22.374	
7,625.0	7,617.6	7,536.4	7,509.9	27.2	7.1	-99.29	-525.6	123.9	753.3	719.6	33.62	22.403	
7,650.0	7,642.1	7,560.8	7,534.1	27.3	7.1	-99.24	-528.1	124.5	756.7	722.9	33.72	22.439	
7,675.0	7,666.4	7,580.8	7,554.1	27.4	7.1	-99.16	-530.1	125.0	760.3	726.5	33.80	22.495	
7,700.0	7,690.4	7,600.0	7,573.1	27.5	7.1	-99.06	-532.3	125.1	764.4	730.5	33.87	22.569	
7,725.0	7,713.9	7,615.0	7,588.0	27.5	7.1	-98.83	-534.2	124.8	769.0	735.1	33.92	22.669	
7,750.0	7,737.0	7,630.7	7,603.6	27.6	7.1	-98.58	-536.5	124.0	774.1	740.1	33.98	22.781	
7,775.0	7,759.5	7,650.0	7,622.5	27.7	7.1	-98.38	-539.6	122.4	779.7	745.6	34.05	22.896	
7,800.0	7,781.5	7,662.0	7,634.3	27.8	7.1	-97.96	-541.8	121.1	785.7	751.6	34.10	23.043	
7,825.0	7,802.7	7,675.0	7,646.9	27.9	7.1	-97.50	-544.3	119.4	792.2	758.1	34.15	23.201	
7,850.0	7,823.3	7,693.1	7,664.4	27.9	7.1	-97.16	-548.0	116.5	799.2	765.0	34.22	23.354	
7,875.0	7,843.1	7,708.6	7,679.2	28.0	7.1	-96.70	-551.5	113.5	806.6	772.4	34.29	23.527	
7,900.0	7,862.0	7,725.0	7,694.7	28.1	7.2	-96.22	-555.4	109.9	814.5	780.2	34.36	23.708	
7,925.0	7,880.1	7,739.4	7,708.1	28.2	7.2	-95.64	-559.1	106.4	822.8	788.4	34.42	23.905	
7,950.0	7,897.3	7,754.7	7,722.3	28.2	7.2	-95.05	-563.1	102.3	831.5	797.0	34.49	24.108	
7,975.0	7,913.5	7,769.9	7,736.2	28.3	7.2	-94.42	-567.4	97.8	840.6	806.0	34.56	24.320	
8,000.0	7,928.6	7,785.1	7,749.8	28.4	7.2	-93.75	-571.9	92.9	850.0	815.4	34.64	24.540	
8,025.0	7,942.7	7,800.0	7,763.0	28.4	7.2	-93.04	-576.5	87.7	859.8	825.1	34.71	24.770	
8,050.0	7,955.7	7,815.3	7,776.3	28.5	7.2	-92.30	-581.4	82.0	869.9	835.1	34.79	25.004	
8,075.0	7,967.6	7,830.3	7,789.2	28.6	7.2	-91.52	-586.4	76.0	880.3	845.5	34.87	25.246	
8,100.0	7,978.3	7,845.3	7,801.8	28.6	7.3	-90.71	-591.6	69.7	891.1	856.1	34.95	25.493	
8,125.0	7,987.8	7,860.3	7,814.1	28.7	7.3	-89.87	-597.0	63.1	902.1	867.0	35.04	25.746	
8,150.0	7,996.1	7,875.0	7,825.9	28.8	7.3	-88.98	-602.4	56.2	913.3	878.2	35.12	26.004	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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, 7580-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	8,003.1	7,890.2	7,837.9	28.8	7.3	-88.10	-608.2	48.8	924.8	889.6	35.21	26.265	
8,200.0	8,008.9	7,905.2	7,849.3	28.9	7.4	-87.18	-614.0	41.1	936.5	901.2	35.30	26.530	
8,225.0	8,013.4	7,920.2	7,860.5	28.9	7.4	-86.24	-620.0	33.1	948.4	913.0	35.39	26.797	
8,250.0	8,016.6	7,935.2	7,871.3	29.0	7.4	-85.28	-626.2	24.8	960.5	925.0	35.49	27.067	
8,275.0	8,018.5	7,950.0	7,881.7	29.0	7.4	-84.30	-632.4	16.3	972.7	937.2	35.58	27.341	
8,300.0	8,019.1	7,965.5	7,892.2	29.1	7.5	-83.34	-639.0	7.1	985.1	949.4	35.68	27.612	
8,302.7	8,019.0	7,967.1	7,893.4	29.1	7.5	-83.23	-639.8	6.1	986.4	950.8	35.69	27.642	
8,400.0	8,018.2	8,034.6	7,934.6	29.3	7.6	-86.15	-670.3	-37.7	1,036.3	1,000.2	36.12	28.695	
8,500.0	8,017.4	8,123.5	7,976.7	29.5	7.8	-88.97	-713.6	-102.8	1,089.3	1,052.6	36.68	29.696	
8,600.0	8,016.5	8,232.9	8,007.8	29.8	8.1	-90.89	-769.3	-191.3	1,141.9	1,104.5	37.44	30.502	
8,700.0	8,015.7	8,362.5	8,014.7	30.1	8.8	-91.27	-835.2	-302.4	1,192.2	1,153.8	38.42	31.029	
8,800.0	8,014.8	8,516.6	8,013.4	30.5	9.8	-91.18	-907.6	-438.4	1,238.4	1,198.6	39.78	31.132	
8,900.0	8,014.0	8,679.1	8,012.1	30.9	11.0	-91.11	-976.0	-585.8	1,279.6	1,238.1	41.41	30.903	
9,000.0	8,013.1	8,849.8	8,010.6	31.3	12.4	-91.05	-1,038.7	-744.5	1,315.4	1,272.1	43.26	30.403	
9,100.0	8,012.3	9,027.9	8,009.1	31.8	14.0	-91.01	-1,093.9	-913.8	1,345.5	1,300.2	45.31	29.695	
9,200.0	8,011.5	9,212.4	8,007.6	32.3	15.7	-90.97	-1,139.9	-1,092.4	1,369.5	1,322.0	47.49	28.836	
9,300.0	8,010.6	9,402.1	8,006.0	32.8	17.5	-90.95	-1,175.1	-1,278.8	1,387.1	1,337.3	49.76	27.875	
9,400.0	8,009.8	9,595.5	8,004.3	33.4	19.4	-90.93	-1,198.2	-1,470.8	1,398.0	1,346.0	52.06	26.855	
9,500.0	8,008.9	9,790.9	8,002.7	34.0	21.3	-90.93	-1,208.4	-1,665.9	1,402.2	1,347.9	54.33	25.808	
9,600.0	8,008.1	9,902.8	8,001.8	34.6	22.4	-90.93	-1,209.5	-1,777.8	1,402.3	1,346.2	56.05	25.019	
9,700.0	8,007.2	10,002.8	8,001.0	35.2	23.4	-90.93	-1,210.4	-1,877.8	1,402.2	1,344.5	57.72	24.294	
9,800.0	8,006.4	10,102.8	8,000.2	35.9	24.4	-90.93	-1,211.4	-1,977.8	1,402.2	1,342.7	59.42	23.597	
9,900.0	8,005.5	10,202.8	7,999.4	36.6	25.4	-90.93	-1,212.3	-2,077.8	1,402.1	1,341.0	61.15	22.928	
10,000.0	8,004.7	10,302.8	7,998.5	37.3	26.4	-90.93	-1,213.3	-2,177.7	1,402.1	1,339.2	62.91	22.287	
10,100.0	8,003.8	10,402.8	7,997.7	38.0	27.4	-90.94	-1,214.2	-2,277.7	1,402.0	1,337.3	64.69	21.672	
10,200.0	8,003.0	10,502.8	7,996.9	38.7	28.5	-90.94	-1,215.1	-2,377.7	1,402.0	1,335.5	66.50	21.083	
10,300.0	8,002.2	10,602.8	7,996.1	39.5	29.5	-90.94	-1,216.1	-2,477.7	1,401.9	1,333.6	68.32	20.519	
10,400.0	8,001.3	10,702.8	7,995.3	40.3	30.5	-90.94	-1,217.0	-2,577.7	1,401.9	1,331.7	70.17	19.978	
10,500.0	8,000.5	10,802.8	7,994.5	41.1	31.6	-90.94	-1,217.9	-2,677.7	1,401.8	1,329.8	72.04	19.460	
10,600.0	7,999.6	10,902.8	7,993.6	41.9	32.6	-90.94	-1,218.9	-2,777.7	1,401.8	1,327.9	73.92	18.963	
10,700.0	7,998.8	11,002.8	7,992.8	42.7	33.7	-90.94	-1,219.8	-2,877.7	1,401.7	1,325.9	75.82	18.488	
10,800.0	7,997.9	11,102.8	7,992.0	43.5	34.8	-90.94	-1,220.8	-2,977.7	1,401.7	1,324.0	77.74	18.031	
10,900.0	7,997.1	11,202.8	7,991.2	44.4	35.8	-90.95	-1,221.7	-3,077.7	1,401.6	1,322.0	79.67	17.594	
11,000.0	7,996.2	11,302.8	7,990.4	45.2	36.9	-90.95	-1,222.6	-3,177.7	1,401.6	1,320.0	81.61	17.174	
11,100.0	7,995.4	11,402.8	7,989.6	46.1	38.0	-90.95	-1,223.6	-3,277.7	1,401.6	1,318.0	83.57	16.772	
11,200.0	7,994.5	11,502.8	7,988.7	47.0	39.1	-90.95	-1,224.5	-3,377.7	1,401.5	1,316.0	85.53	16.385	
11,300.0	7,993.7	11,602.8	7,987.9	47.9	40.1	-90.95	-1,225.4	-3,477.6	1,401.5	1,313.9	87.51	16.014	
11,400.0	7,992.8	11,702.8	7,987.1	48.8	41.2	-90.95	-1,226.4	-3,577.6	1,401.4	1,311.9	89.51	15.657	
11,500.0	7,992.0	11,802.8	7,986.3	49.7	42.3	-90.95	-1,227.3	-3,677.6	1,401.4	1,309.9	91.51	15.315	
11,600.0	7,991.2	11,902.8	7,985.5	50.6	43.4	-90.95	-1,228.3	-3,777.6	1,401.3	1,307.8	93.52	14.985	
11,700.0	7,990.3	12,002.8	7,984.7	51.5	44.5	-90.95	-1,229.2	-3,877.6	1,401.3	1,305.7	95.53	14.668	
11,800.0	7,989.5	12,102.8	7,983.8	52.4	45.5	-90.96	-1,230.1	-3,977.6	1,401.2	1,303.7	97.56	14.362	
11,900.0	7,988.6	12,202.8	7,983.0	53.4	46.6	-90.96	-1,231.1	-4,077.6	1,401.2	1,301.6	99.60	14.068	
12,000.0	7,987.8	12,302.8	7,982.2	54.3	47.7	-90.96	-1,232.0	-4,177.6	1,401.1	1,299.5	101.64	13.785	
12,100.0	7,986.9	12,402.8	7,981.4	55.3	48.8	-90.96	-1,232.9	-4,277.6	1,401.1	1,297.4	103.69	13.512	
12,200.0	7,986.1	12,502.8	7,980.6	56.2	49.9	-90.96	-1,233.9	-4,377.6	1,401.0	1,295.3	105.75	13.249	
12,300.0	7,985.2	12,602.8	7,979.7	57.2	51.0	-90.96	-1,234.8	-4,477.6	1,401.0	1,293.2	107.81	12.995	
12,400.0	7,984.4	12,702.8	7,978.9	58.2	52.1	-90.96	-1,235.8	-4,577.6	1,400.9	1,291.1	109.88	12.750	
12,500.0	7,983.5	12,802.8	7,978.1	59.1	53.2	-90.96	-1,236.7	-4,677.6	1,400.9	1,288.9	111.96	12.513	
12,600.0	7,982.7	12,902.8	7,977.3	60.1	54.3	-90.97	-1,237.6	-4,777.5	1,400.9	1,286.8	114.04	12.284	
12,700.0	7,981.9	13,002.8	7,976.5	61.1	55.4	-90.97	-1,238.6	-4,877.5	1,400.8	1,284.7	116.12	12.063	
12,800.0	7,981.0	13,102.8	7,975.7	62.1	56.5	-90.97	-1,239.5	-4,977.5	1,400.8	1,282.5	118.22	11.849	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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 #504H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7580-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	
12,871.6	7,980.4	13,177.4	7,975.1	62.8	57.3	-90.97	-1,240.2	-5,052.1	1,400.7	1,281.0	119.74	11.698	
12,900.0	7,980.2	13,232.9	7,974.6	63.1	57.9	-90.96	-1,240.1	-5,107.6	1,400.5	1,280.0	120.50	11.622	
12,947.3	7,979.8	13,286.5	7,974.2	63.5	58.5	-90.96	-1,239.2	-5,161.2	1,400.1	1,278.6	121.53	11.521	
12,947.5	7,979.8	13,286.7	7,974.2	63.5	58.5	-90.96	-1,239.2	-5,161.4	1,400.1	1,278.6	121.53	11.521	
13,000.0	7,979.3	13,339.2	7,973.7	64.1	59.1	-90.96	-1,238.3	-5,213.8	1,400.1	1,277.5	122.64	11.417	
13,100.0	7,978.5	13,439.2	7,972.9	65.1	60.1	-90.96	-1,236.7	-5,313.8	1,400.2	1,275.4	124.74	11.225	
13,200.0	7,977.6	13,539.2	7,972.1	66.1	61.2	-90.96	-1,235.0	-5,413.8	1,400.2	1,273.3	126.85	11.038	
13,300.0	7,976.8	13,639.2	7,971.3	67.1	62.3	-90.96	-1,233.4	-5,513.8	1,400.2	1,271.2	128.96	10.857	
13,400.0	7,976.0	13,739.2	7,970.4	68.1	63.4	-90.96	-1,231.7	-5,613.8	1,400.2	1,269.1	131.08	10.682	
13,500.0	7,975.1	13,839.2	7,969.6	69.1	64.5	-90.96	-1,230.0	-5,713.8	1,400.2	1,267.0	133.20	10.512	
13,600.0	7,974.3	13,939.2	7,968.8	70.1	65.6	-90.96	-1,228.4	-5,813.7	1,400.2	1,264.9	135.33	10.347	
13,700.0	7,973.5	14,039.2	7,968.0	71.1	66.7	-90.96	-1,226.7	-5,913.7	1,400.2	1,262.7	137.45	10.187	
13,800.0	7,972.6	14,139.2	7,967.2	72.2	67.8	-90.96	-1,225.1	-6,013.7	1,400.2	1,260.6	139.59	10.031	
13,900.0	7,971.8	14,239.2	7,966.3	73.2	68.9	-90.96	-1,223.4	-6,113.7	1,400.2	1,258.5	141.72	9.880	
14,000.0	7,970.9	14,339.2	7,965.5	74.2	70.0	-90.96	-1,221.7	-6,213.7	1,400.2	1,256.4	143.86	9.733	
14,100.0	7,970.1	14,439.2	7,964.7	75.2	71.1	-90.97	-1,220.1	-6,313.7	1,400.2	1,254.2	146.00	9.591	
14,200.0	7,969.3	14,539.2	7,963.9	76.3	72.2	-90.97	-1,218.4	-6,413.6	1,400.2	1,252.1	148.14	9.452	
14,300.0	7,968.4	14,639.2	7,963.1	77.3	73.3	-90.97	-1,216.8	-6,513.6	1,400.2	1,250.0	150.28	9.317	
14,400.0	7,967.6	14,739.2	7,962.2	78.4	74.4	-90.97	-1,215.1	-6,613.6	1,400.2	1,247.8	152.43	9.186	
14,500.0	7,966.8	14,839.2	7,961.4	79.4	75.5	-90.97	-1,213.5	-6,713.6	1,400.2	1,245.7	154.58	9.058	
14,600.0	7,965.9	14,939.2	7,960.6	80.4	76.7	-90.97	-1,211.8	-6,813.6	1,400.3	1,243.5	156.73	8.934	
14,700.0	7,965.1	15,039.2	7,959.8	81.5	77.8	-90.97	-1,210.1	-6,913.6	1,400.3	1,241.4	158.89	8.813	
14,800.0	7,964.2	15,139.2	7,959.0	82.5	78.9	-90.97	-1,208.5	-7,013.5	1,400.3	1,239.2	161.04	8.695	
14,900.0	7,963.4	15,239.2	7,958.1	83.6	80.0	-90.97	-1,206.8	-7,113.5	1,400.3	1,237.1	163.20	8.580	
15,000.0	7,962.6	15,339.2	7,957.3	84.6	81.1	-90.97	-1,205.2	-7,213.5	1,400.3	1,234.9	165.36	8.468	
15,100.0	7,961.7	15,439.2	7,956.5	85.7	82.2	-90.97	-1,203.5	-7,313.5	1,400.3	1,232.8	167.52	8.359	
15,200.0	7,960.9	15,539.2	7,955.7	86.7	83.3	-90.97	-1,201.9	-7,413.5	1,400.3	1,230.6	169.69	8.252	
15,300.0	7,960.1	15,639.2	7,954.9	87.8	84.4	-90.97	-1,200.2	-7,513.4	1,400.3	1,228.4	171.85	8.148	
15,400.0	7,959.2	15,739.2	7,954.0	88.8	85.5	-90.97	-1,198.5	-7,613.4	1,400.3	1,226.3	174.02	8.047	
15,500.0	7,958.4	15,839.2	7,953.2	89.9	86.6	-90.98	-1,196.9	-7,713.4	1,400.3	1,224.1	176.19	7.948	
15,600.0	7,957.5	15,939.2	7,952.4	91.0	87.7	-90.98	-1,195.2	-7,813.4	1,400.3	1,222.0	178.36	7.851	
15,700.0	7,956.7	16,039.2	7,951.6	92.0	88.8	-90.98	-1,193.6	-7,913.4	1,400.3	1,219.8	180.53	7.757	
15,800.0	7,955.9	16,139.2	7,950.8	93.1	89.9	-90.98	-1,191.9	-8,013.4	1,400.3	1,217.6	182.70	7.665	
15,900.0	7,955.0	16,239.2	7,949.9	94.1	91.0	-90.98	-1,190.2	-8,113.3	1,400.3	1,215.5	184.88	7.574	
16,000.0	7,954.2	16,339.2	7,949.1	95.2	92.1	-90.98	-1,188.6	-8,213.3	1,400.3	1,213.3	187.05	7.486	
16,100.0	7,953.4	16,439.2	7,948.3	96.3	93.2	-90.98	-1,186.9	-8,313.3	1,400.4	1,211.1	189.23	7.400	
16,200.0	7,952.5	16,539.2	7,947.5	97.3	94.4	-90.98	-1,185.3	-8,413.3	1,400.4	1,208.9	191.41	7.316	
16,300.0	7,951.7	16,639.2	7,946.7	98.4	95.5	-90.98	-1,183.6	-8,513.3	1,400.4	1,206.8	193.59	7.234	
16,400.0	7,950.8	16,739.2	7,945.8	99.5	96.6	-90.98	-1,182.0	-8,613.3	1,400.4	1,204.6	195.77	7.153	
16,500.0	7,950.0	16,839.2	7,945.0	100.5	97.7	-90.98	-1,180.3	-8,713.2	1,400.4	1,202.4	197.95	7.074	
16,600.0	7,949.2	16,939.2	7,944.2	101.6	98.8	-90.98	-1,178.6	-8,813.2	1,400.4	1,200.2	200.14	6.997	
16,700.0	7,948.3	17,039.2	7,943.4	102.7	99.9	-90.98	-1,177.0	-8,913.2	1,400.4	1,198.1	202.32	6.922	
16,800.0	7,947.5	17,139.2	7,942.6	103.8	101.0	-90.98	-1,175.3	-9,013.2	1,400.4	1,195.9	204.51	6.848	
16,900.0	7,946.6	17,239.2	7,941.7	104.8	102.1	-90.99	-1,173.7	-9,113.2	1,400.4	1,193.7	206.69	6.775	
17,000.0	7,945.8	17,339.2	7,940.9	105.9	103.2	-90.99	-1,172.0	-9,213.2	1,400.4	1,191.5	208.88	6.704	
17,100.0	7,945.0	17,439.2	7,940.1	107.0	104.3	-90.99	-1,170.4	-9,313.1	1,400.4	1,189.3	211.07	6.635	
17,200.0	7,944.1	17,539.2	7,939.3	108.1	105.4	-90.99	-1,168.7	-9,413.1	1,400.4	1,187.2	213.26	6.567	
17,300.0	7,943.3	17,639.2	7,938.5	109.1	106.6	-90.99	-1,167.0	-9,513.1	1,400.4	1,185.0	215.45	6.500	
17,400.0	7,942.5	17,739.2	7,937.6	110.2	107.7	-90.99	-1,165.4	-9,613.1	1,400.4	1,182.8	217.64	6.435	
17,500.0	7,941.6	17,839.2	7,936.8	111.3	108.8	-90.99	-1,163.7	-9,713.1	1,400.4	1,180.6	219.83	6.371	
17,600.0	7,940.8	17,939.2	7,936.0	112.4	109.9	-90.99	-1,162.1	-9,813.1	1,400.4	1,178.4	222.02	6.308	
17,601.7	7,940.8	17,940.9	7,936.0	112.4	109.9	-90.99	-1,162.0	-9,814.8	1,400.4	1,178.4	222.06	6.307	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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 #504H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 7580-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,689.5	7,940.0	17,996.2	7,935.5	113.3	110.5	-90.99	-1,161.1	-9,870.1	1,400.8	1,177.1	223.75	6.261	

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	4.2	3.0	173.02	-6,583.1	806.1	6,632.5				
100.0	100.0	44.1	44.1	4.2	3.0	173.02	-6,583.1	806.0	6,632.3	6,625.0	7.24	915.649	
200.0	200.0	128.8	128.8	4.3	3.0	173.02	-6,583.3	805.4	6,632.5	6,625.2	7.26	912.961	
300.0	300.0	240.9	240.9	4.3	3.0	173.04	-6,583.8	804.2	6,632.7	6,625.4	7.32	906.329	
400.0	400.0	341.6	341.6	4.4	3.0	173.04	-6,584.0	803.4	6,632.8	6,625.4	7.40	896.095	
500.0	500.0	409.8	409.8	4.5	3.0	173.05	-6,584.4	802.9	6,633.2	6,625.7	7.51	882.880	
600.0	600.0	501.3	501.3	4.6	3.1	173.05	-6,585.0	802.4	6,633.9	6,626.3	7.65	866.689	
700.0	700.0	609.4	609.4	4.8	3.1	173.06	-6,585.9	801.8	6,634.6	6,626.8	7.82	847.924	
800.0	800.0	726.9	726.9	5.0	3.1	173.07	-6,586.6	800.9	6,635.1	6,627.1	8.02	827.391	
900.0	900.0	852.7	852.7	5.2	3.2	173.07	-6,586.9	800.4	6,635.4	6,627.1	8.24	805.705	
913.3	913.3	862.3	862.3	5.2	3.2	173.07	-6,586.9	800.4	6,635.4	6,627.1	8.26	802.921	
1,000.0	1,000.0	949.7	949.7	5.4	3.2	173.07	-6,587.0	800.2	6,635.4	6,626.9	8.46	784.071	
1,069.0	1,069.0	1,018.1	1,018.1	5.5	3.2	173.07	-6,586.9	800.2	6,635.3	6,626.7	8.62	769.430	
1,100.0	1,100.0	1,037.0	1,037.0	5.6	3.2	173.07	-6,586.9	800.2	6,635.4	6,626.7	8.70	762.732	
1,200.0	1,200.0	1,121.5	1,121.5	5.8	3.2	173.08	-6,587.2	800.0	6,635.7	6,626.7	8.96	740.275	
1,300.0	1,300.0	1,225.0	1,225.0	6.1	3.3	173.08	-6,587.6	799.5	6,636.0	6,626.8	9.24	717.879	
1,400.0	1,400.0	1,342.1	1,342.1	6.4	3.4	173.09	-6,588.0	798.8	6,636.3	6,626.8	9.54	695.891	
1,500.0	1,500.0	1,451.6	1,451.6	6.6	3.4	173.09	-6,588.2	798.1	6,636.4	6,626.6	9.83	674.897	
1,600.0	1,600.0	14,372.5	8,065.1	6.9	51.5	95.53	-56.9	587.3	6,542.7	6,485.4	57.33	114.116	
1,700.0	1,700.0	14,373.8	8,065.1	7.2	51.5	95.40	-55.6	587.3	6,443.1	6,385.7	57.42	112.206	
1,800.0	1,800.0	14,375.1	8,065.1	7.5	51.5	95.28	-54.3	587.3	6,343.6	6,286.1	57.51	110.296	
1,900.0	1,900.0	14,376.3	8,065.1	7.8	51.6	95.16	-53.0	587.3	6,244.0	6,186.4	57.61	108.385	
2,000.0	2,000.0	14,377.6	8,065.1	8.1	51.6	95.03	-51.7	587.3	6,144.5	6,086.8	57.71	106.475	
2,100.0	2,100.0	14,378.8	8,065.1	8.4	51.6	94.91	-50.5	587.3	6,044.9	5,987.1	57.81	104.565	
2,200.0	2,200.0	14,380.1	8,065.1	8.7	51.6	94.79	-49.3	587.3	5,945.4	5,887.5	57.92	102.657	
2,300.0	2,300.0	14,381.3	8,065.1	9.0	51.6	94.68	-48.0	587.3	5,845.9	5,787.9	58.02	100.750	
2,400.0	2,400.0	14,382.5	8,065.2	9.3	51.6	94.56	-46.9	587.3	5,746.4	5,688.3	58.14	98.846	
2,500.0	2,500.0	14,383.7	8,065.2	9.7	51.6	94.45	-45.7	587.3	5,647.0	5,588.7	58.25	96.944	
2,600.0	2,600.0	14,387.3	8,065.2	10.0	51.6	114.82	-42.1	587.3	5,547.6	5,489.2	58.39	95.017	
2,700.0	2,699.8	14,395.7	8,065.3	10.3	51.7	127.72	-33.7	587.3	5,448.4	5,389.8	58.56	93.043	
2,800.0	2,799.6	14,406.4	8,065.3	10.6	51.8	127.04	-23.0	587.2	5,349.3	5,290.5	58.75	91.049	
2,900.0	2,899.4	14,417.0	8,065.4	11.0	51.9	126.35	-12.4	587.2	5,250.2	5,191.3	58.95	89.064	
3,000.0	2,999.1	14,427.4	8,065.5	11.3	51.9	125.65	-1.9	587.2	5,151.2	5,092.1	59.15	87.089	
3,100.0	3,098.9	14,437.7	8,065.5	11.6	52.0	124.96	8.4	587.1	5,052.2	4,992.9	59.35	85.125	
3,200.0	3,198.6	14,447.9	8,065.6	12.0	52.1	124.27	18.5	587.1	4,953.2	4,893.7	59.55	83.171	
3,300.0	3,298.4	14,457.9	8,065.7	12.3	52.2	123.57	28.6	587.0	4,854.3	4,794.5	59.76	81.228	
3,400.0	3,398.1	14,446.0	8,065.6	12.6	52.1	124.40	16.7	587.1	4,755.4	4,695.6	59.81	79.510	
3,500.0	3,497.9	14,446.0	8,065.6	13.0	52.1	124.40	16.7	587.1	4,656.6	4,596.6	59.95	77.677	
3,600.0	3,597.6	14,446.0	8,065.6	13.3	52.1	124.40	16.7	587.1	4,557.8	4,497.7	60.09	75.849	
3,700.0	3,697.4	14,446.0	8,065.6	13.7	52.1	124.40	16.7	587.1	4,459.0	4,398.8	60.24	74.026	
3,800.0	3,797.2	14,446.0	8,065.6	14.0	52.1	124.40	16.7	587.1	4,360.3	4,299.9	60.39	72.208	
3,900.0	3,896.9	14,471.5	8,065.8	14.3	52.3	122.61	42.2	587.1	4,261.5	4,200.8	60.72	70.177	
4,000.0	3,996.7	14,475.4	8,065.8	14.7	52.3	122.33	46.1	587.1	4,162.9	4,102.0	60.91	68.345	
4,100.0	4,096.4	14,479.3	8,065.9	15.0	52.3	122.05	50.0	587.1	4,064.3	4,003.2	61.10	66.521	
4,200.0	4,196.2	14,483.3	8,065.9	15.4	52.4	121.76	54.0	587.1	3,965.9	3,904.6	61.29	64.704	
4,300.0	4,295.9	14,487.4	8,066.0	15.7	52.4	121.46	58.1	587.2	3,867.4	3,805.9	61.49	62.895	
4,400.0	4,395.7	14,491.6	8,066.1	16.1	52.4	121.15	62.3	587.2	3,769.1	3,707.4	61.69	61.093	
4,500.0	4,495.5	14,495.9	8,066.1	16.4	52.5	120.84	66.5	587.3	3,670.8	3,608.9	61.90	59.301	
4,600.0	4,595.2	14,500.2	8,066.2	16.8	52.5	120.51	70.9	587.3	3,572.6	3,510.5	62.11	57.517	
4,700.0	4,695.0	14,504.7	8,066.3	17.1	52.5	120.18	75.3	587.4	3,474.5	3,412.2	62.33	55.741	
4,800.0	4,794.7	14,509.2	8,066.4	17.5	52.6	119.84	79.9	587.5	3,376.5	3,314.0	62.56	53.975	
4,900.0	4,894.5	14,513.9	8,066.5	17.8	52.6	119.48	84.5	587.6	3,278.6	3,215.8	62.79	52.219	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,994.2	14,540.0	8,067.0	18.2	52.8	117.46	110.6	588.2	3,181.0	3,117.8	63.18	50.351	
5,100.0	5,094.0	14,540.0	8,067.0	18.5	52.8	117.46	110.6	588.2	3,083.3	3,019.9	63.38	48.645	
5,200.0	5,193.7	14,540.0	8,067.0	18.9	52.8	117.46	110.6	588.2	2,985.8	2,922.2	63.60	46.948	
5,300.0	5,293.5	14,540.0	8,067.0	19.2	52.8	117.46	110.6	588.2	2,888.4	2,824.6	63.82	45.260	
5,400.0	5,393.3	14,540.0	8,067.0	19.6	52.8	117.46	110.6	588.2	2,791.2	2,727.2	64.05	43.581	
5,415.3	5,408.6	14,540.0	8,067.0	19.6	52.8	117.46	110.6	588.2	2,776.3	2,712.2	64.08	43.325	
5,500.0	5,493.1	14,550.6	8,067.3	19.9	52.9	113.52	121.2	588.5	2,694.2	2,629.8	64.36	41.862	
5,600.0	5,592.9	14,561.4	8,067.6	20.3	53.0	108.84	132.0	588.8	2,597.1	2,532.4	64.68	40.153	
5,700.0	5,692.9	14,569.1	8,067.7	20.6	53.0	104.34	139.7	589.0	2,500.1	2,435.1	64.99	38.472	
5,800.0	5,792.9	14,573.9	8,067.8	21.0	53.1	100.09	144.5	589.2	2,403.3	2,338.0	65.28	36.814	
5,815.3	5,808.2	14,574.4	8,067.8	21.0	53.1	96.17	145.0	589.2	2,388.4	2,323.1	65.33	36.562	
5,900.0	5,892.9	14,576.8	8,067.9	21.3	53.1	95.94	147.4	589.3	2,306.6	2,241.1	65.57	35.177	
6,000.0	5,992.9	14,579.6	8,067.9	21.7	53.1	95.68	150.2	589.4	2,210.3	2,144.4	65.88	33.552	
6,100.0	6,092.9	14,582.3	8,068.0	22.0	53.1	95.43	152.9	589.4	2,114.3	2,048.1	66.19	31.941	
6,200.0	6,192.9	14,584.8	8,068.0	22.4	53.1	95.18	155.4	589.5	2,018.6	1,952.1	66.53	30.344	
6,300.0	6,292.9	14,587.3	8,068.1	22.7	53.2	94.95	157.9	589.6	1,923.5	1,856.6	66.88	28.761	
6,400.0	6,392.9	14,589.6	8,068.1	23.1	53.2	94.73	160.2	589.7	1,828.8	1,761.5	67.25	27.194	
6,500.0	6,492.9	14,591.9	8,068.2	23.4	53.2	94.52	162.5	589.7	1,734.7	1,667.1	67.65	25.644	
6,600.0	6,592.9	14,594.0	8,068.2	23.8	53.2	94.31	164.6	589.8	1,641.3	1,573.3	68.07	24.111	
6,700.0	6,692.9	14,596.1	8,068.2	24.1	53.2	94.11	166.7	589.9	1,548.8	1,480.2	68.54	22.598	
6,800.0	6,792.9	14,598.1	8,068.3	24.5	53.2	93.92	168.7	589.9	1,457.2	1,388.2	69.04	21.107	
6,900.0	6,892.9	14,600.0	8,068.3	24.8	53.3	93.74	170.6	590.0	1,366.8	1,297.2	69.59	19.640	
7,000.0	6,992.9	14,601.9	8,068.3	25.2	53.3	93.56	172.5	590.1	1,277.8	1,207.6	70.20	18.202	
7,100.0	7,092.9	14,603.7	8,068.4	25.5	53.3	93.39	174.3	590.1	1,190.6	1,119.7	70.88	16.797	
7,200.0	7,192.9	14,605.4	8,068.4	25.9	53.3	93.23	176.0	590.2	1,105.6	1,033.9	71.64	15.432	
7,300.0	7,292.9	14,607.1	8,068.4	26.2	53.3	93.07	177.7	590.2	1,023.2	950.7	72.50	14.113	
7,400.0	7,392.9	14,608.7	8,068.4	26.6	53.3	92.92	179.3	590.3	944.3	870.8	73.47	12.853	
7,500.0	7,492.9	14,610.3	8,068.5	26.9	53.3	92.77	180.9	590.3	869.7	795.1	74.56	11.664	
7,548.7	7,541.6	14,611.0	8,068.5	27.1	53.3	92.70	181.6	590.4	835.3	760.1	75.14	11.117	
7,550.0	7,542.9	14,611.1	8,068.5	27.1	53.3	-176.75	181.6	590.4	834.4	759.2	75.15	11.102	
7,575.0	7,567.9	14,611.4	8,068.5	27.2	53.3	-176.93	182.0	590.4	817.9	742.4	75.46	10.838	
7,600.0	7,592.8	14,611.7	8,068.5	27.3	53.3	-177.07	182.3	590.4	802.8	727.0	75.79	10.592	
7,625.0	7,617.6	14,611.9	8,068.5	27.4	53.3	-177.19	182.5	590.4	789.3	713.2	76.13	10.368	
7,650.0	7,642.1	14,612.0	8,068.5	27.5	53.3	-177.28	182.6	590.4	777.6	701.1	76.49	10.166	
7,675.0	7,666.4	14,612.1	8,068.5	27.5	53.3	-177.34	182.7	590.4	767.7	690.8	76.85	9.989	
7,700.0	7,690.4	14,612.2	8,068.5	27.6	53.3	-177.39	182.8	590.4	759.7	682.4	77.22	9.837	
7,725.0	7,713.9	14,612.1	8,068.5	27.7	53.3	-177.42	182.7	590.4	753.7	676.1	77.59	9.713	
7,750.0	7,737.0	14,612.1	8,068.5	27.8	53.3	-177.44	182.6	590.4	749.8	671.8	77.96	9.617	
7,775.0	7,759.5	14,611.9	8,068.5	27.9	53.3	-177.44	182.5	590.4	748.0	669.7	78.33	9.550	
7,783.3	7,766.9	14,611.8	8,068.5	27.9	53.3	-177.43	182.4	590.4	747.9	669.4	78.44	9.534 CC, ES	
7,800.0	7,781.5	14,611.7	8,068.5	27.9	53.3	-177.42	182.3	590.4	748.3	669.7	78.67	9.512	
7,825.0	7,802.7	14,611.4	8,068.5	28.0	53.3	-177.39	182.0	590.4	750.8	671.8	79.01	9.504 SF	
7,850.0	7,823.3	14,611.1	8,068.5	28.1	53.3	-177.34	181.7	590.4	755.4	676.1	79.32	9.524	
7,875.0	7,843.1	14,610.7	8,068.5	28.2	53.3	-177.27	181.3	590.4	762.1	682.5	79.61	9.573	
7,900.0	7,862.0	14,610.3	8,068.5	28.2	53.3	-177.18	180.9	590.3	770.7	690.9	79.88	9.649	
7,925.0	7,880.1	14,609.9	8,068.4	28.3	53.3	-177.07	180.4	590.3	781.3	701.2	80.12	9.752	
7,950.0	7,897.3	14,609.3	8,068.4	28.4	53.3	-176.94	179.9	590.3	793.6	713.3	80.34	9.879	
7,975.0	7,913.5	14,608.8	8,068.4	28.5	53.3	-176.78	179.4	590.3	807.6	727.1	80.53	10.029	
8,000.0	7,928.6	14,608.1	8,068.4	28.5	53.3	-176.58	178.7	590.3	823.2	742.5	80.70	10.201	
8,025.0	7,942.7	14,607.5	8,068.4	28.6	53.3	-176.35	178.1	590.3	840.2	759.3	80.84	10.393	
8,050.0	7,955.7	14,606.8	8,068.4	28.7	53.3	-176.07	177.4	590.2	858.5	777.5	80.97	10.603	
8,075.0	7,967.6	14,606.0	8,068.4	28.7	53.3	-175.72	176.6	590.2	877.9	796.9	81.07	10.829	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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	
8,100.0	7,978.3	14,605.3	8,068.4	28.8	53.3	-175.30	175.9	590.2	898.4	817.3	81.16	11.070	
8,125.0	7,987.8	14,604.5	8,068.4	28.8	53.3	-174.77	175.1	590.2	919.8	838.6	81.23	11.324	
8,150.0	7,996.1	14,603.6	8,068.4	28.9	53.3	-174.10	174.2	590.1	942.0	860.7	81.29	11.589	
8,175.0	8,003.1	14,602.8	8,068.3	29.0	53.3	-173.21	173.4	590.1	964.9	883.6	81.33	11.864	
8,200.0	8,008.9	14,601.9	8,068.3	29.0	53.3	-172.00	172.5	590.1	988.4	907.0	81.37	12.147	
8,225.0	8,013.4	14,600.9	8,068.3	29.1	53.3	-170.28	171.5	590.0	1,012.3	930.9	81.39	12.438	
8,250.0	8,016.6	14,600.0	8,068.3	29.1	53.3	-167.65	170.6	590.0	1,036.6	955.2	81.41	12.734	
8,275.0	8,018.5	14,599.0	8,068.3	29.2	53.2	-163.16	169.6	590.0	1,061.2	979.8	81.42	13.035	
8,300.0	8,019.1	14,598.0	8,068.3	29.2	53.2	-154.06	168.6	589.9	1,086.0	1,004.6	81.42	13.339	
8,302.7	8,019.0	14,597.9	8,068.3	29.2	53.2	-152.49	168.5	589.9	1,088.8	1,007.3	81.42	13.372	
8,400.0	8,018.2	14,594.0	8,068.2	29.4	53.2	-150.59	164.6	589.8	1,185.6	1,104.2	81.41	14.563	
8,500.0	8,017.4	14,590.1	8,068.1	29.7	53.2	-148.73	160.7	589.7	1,285.3	1,203.9	81.41	15.788	
8,600.0	8,016.5	14,586.2	8,068.1	30.0	53.1	-146.96	156.8	589.6	1,384.9	1,303.5	81.40	17.015	
8,700.0	8,015.7	14,582.4	8,068.0	30.3	53.1	-145.28	153.0	589.4	1,484.6	1,403.3	81.39	18.242	
8,800.0	8,014.8	14,578.6	8,067.9	30.6	53.1	-143.68	149.2	589.3	1,584.4	1,503.0	81.37	19.470	
8,900.0	8,014.0	14,574.9	8,067.8	31.0	53.1	-142.15	145.5	589.2	1,684.1	1,602.8	81.36	20.699	
9,000.0	8,013.1	14,571.2	8,067.8	31.5	53.0	-140.70	141.8	589.1	1,783.9	1,702.6	81.35	21.928	
9,100.0	8,012.3	14,567.5	8,067.7	31.9	53.0	-139.32	138.1	589.0	1,883.7	1,802.4	81.35	23.157	
9,200.0	8,011.5	14,563.9	8,067.6	32.4	53.0	-138.01	134.5	588.9	1,983.5	1,902.2	81.34	24.386	
9,300.0	8,010.6	14,560.4	8,067.5	33.0	53.0	-136.77	131.0	588.8	2,083.3	2,002.0	81.33	25.616	
9,400.0	8,009.8	14,556.8	8,067.5	33.5	52.9	-135.58	127.5	588.7	2,183.2	2,101.8	81.32	26.846	
9,500.0	8,008.9	14,553.4	8,067.4	34.1	52.9	-134.45	124.0	588.6	2,283.0	2,201.7	81.32	28.076	
9,600.0	8,008.1	14,549.9	8,067.3	34.7	52.9	-133.37	120.5	588.5	2,382.8	2,301.5	81.31	29.306	
9,700.0	8,007.2	14,546.5	8,067.2	35.4	52.8	-132.35	117.1	588.4	2,482.7	2,401.4	81.31	30.535	
9,800.0	8,006.4	14,540.0	8,067.0	36.0	52.8	-130.48	110.6	588.2	2,582.5	2,501.3	81.27	31.776	
9,900.0	8,005.5	14,540.0	8,067.0	36.7	52.8	-130.48	110.6	588.2	2,682.4	2,601.1	81.30	32.993	
10,000.0	8,004.7	14,540.0	8,067.0	37.4	52.8	-130.48	110.6	588.2	2,782.3	2,701.0	81.33	34.210	
10,100.0	8,003.8	14,540.0	8,067.0	38.1	52.8	-130.48	110.6	588.2	2,882.2	2,800.8	81.36	35.426	
10,200.0	8,003.0	14,540.0	8,067.0	38.8	52.8	-130.48	110.6	588.2	2,982.1	2,900.7	81.39	36.641	
10,300.0	8,002.2	14,540.0	8,067.0	39.6	52.8	-130.48	110.6	588.2	3,081.9	3,000.5	81.41	37.855	
10,400.0	8,001.3	14,540.0	8,067.0	40.4	52.8	-130.48	110.6	588.2	3,181.8	3,100.4	81.44	39.068	
10,500.0	8,000.5	14,540.0	8,067.0	41.2	52.8	-130.48	110.6	588.2	3,281.8	3,200.3	81.47	40.280	
10,600.0	7,999.6	14,540.0	8,067.0	42.0	52.8	-130.48	110.6	588.2	3,381.7	3,300.2	81.50	41.490	
10,700.0	7,998.8	14,540.0	8,067.0	42.8	52.8	-130.48	110.6	588.2	3,481.6	3,400.1	81.54	42.700	
10,800.0	7,997.9	14,540.0	8,067.0	43.6	52.8	-130.48	110.6	588.2	3,581.5	3,499.9	81.57	43.908	
10,900.0	7,997.1	14,540.0	8,067.0	44.5	52.8	-130.48	110.6	588.2	3,681.4	3,599.8	81.60	45.115	
11,000.0	7,996.2	14,540.0	8,067.0	45.3	52.8	-130.48	110.6	588.2	3,781.4	3,699.7	81.63	46.321	
11,100.0	7,995.4	14,540.0	8,067.0	46.2	52.8	-130.48	110.6	588.2	3,881.3	3,799.6	81.67	47.526	
11,200.0	7,994.5	14,540.0	8,067.0	47.1	52.8	-130.48	110.6	588.2	3,981.2	3,899.5	81.70	48.729	
11,300.0	7,993.7	14,540.0	8,067.0	48.0	52.8	-130.48	110.6	588.2	4,081.2	3,999.4	81.74	49.930	
11,400.0	7,992.8	14,540.0	8,067.0	48.8	52.8	-130.48	110.6	588.2	4,181.1	4,099.4	81.77	51.131	
11,500.0	7,992.0	14,540.0	8,067.0	49.8	52.8	-130.48	110.6	588.2	4,281.1	4,199.3	81.81	52.329	
11,600.0	7,991.2	14,540.0	8,067.0	50.7	52.8	-130.48	110.6	588.2	4,381.0	4,299.2	81.85	53.526	
11,700.0	7,990.3	14,540.0	8,067.0	51.6	52.8	-130.48	110.6	588.2	4,481.0	4,399.1	81.89	54.722	
11,800.0	7,989.5	14,540.0	8,067.0	52.5	52.8	-130.48	110.6	588.2	4,580.9	4,499.0	81.93	55.916	
11,900.0	7,988.6	14,540.0	8,067.0	53.5	52.8	-130.48	110.6	588.2	4,680.9	4,598.9	81.97	57.108	
12,000.0	7,987.8	14,510.2	8,066.4	54.4	52.6	-123.45	80.9	587.5	4,780.6	4,698.8	81.77	58.467	
12,100.0	7,986.9	14,509.2	8,066.4	55.3	52.6	-123.25	79.9	587.5	4,880.5	4,798.7	81.80	59.665	
12,200.0	7,986.1	14,508.2	8,066.3	56.3	52.6	-123.06	78.9	587.5	4,980.5	4,898.6	81.83	60.861	
12,300.0	7,985.2	14,507.3	8,066.3	57.3	52.5	-122.87	77.9	587.4	5,080.4	4,998.6	81.87	62.055	
12,400.0	7,984.4	14,506.3	8,066.3	58.2	52.5	-122.69	77.0	587.4	5,180.4	5,098.5	81.91	63.248	
12,500.0	7,983.5	14,505.4	8,066.3	59.2	52.5	-122.51	76.1	587.4	5,280.3	5,198.4	81.94	64.438	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 21 ST COM #1H - OWB - ACTUAL WELLPA												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7529-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	7,982.7	14,504.5	8,066.3	60.2	52.5	-122.34	75.2	587.4	5,380.3	5,298.3	81.98	65.627	
12,700.0	7,981.9	14,503.7	8,066.3	61.2	52.5	-122.18	74.3	587.4	5,480.2	5,398.2	82.02	66.814	
12,800.0	7,981.0	14,502.8	8,066.2	62.1	52.5	-122.02	73.5	587.4	5,580.2	5,498.1	82.06	67.999	
12,871.6	7,980.4	14,502.2	8,066.2	62.9	52.5	-121.91	72.9	587.4	5,651.8	5,569.7	82.09	68.846	
12,900.0	7,980.2	14,502.0	8,066.2	63.1	52.5	-135.68	72.7	587.4	5,680.1	5,598.0	82.10	69.182	
12,947.5	7,979.8	14,501.9	8,066.2	63.6	52.5	175.32	72.6	587.4	5,727.6	5,645.5	82.13	69.742	
13,000.0	7,979.3	14,502.0	8,066.2	64.1	52.5	175.30	72.6	587.4	5,780.1	5,698.0	82.15	70.359	
13,100.0	7,978.5	14,502.0	8,066.2	65.1	52.5	175.27	72.7	587.4	5,880.1	5,797.9	82.20	71.534	
13,200.0	7,977.6	14,502.1	8,066.2	66.1	52.5	175.24	72.7	587.4	5,980.1	5,897.9	82.25	72.706	
13,300.0	7,976.8	14,502.1	8,066.2	67.1	52.5	175.21	72.8	587.4	6,080.1	5,997.8	82.30	73.877	
13,400.0	7,976.0	14,502.2	8,066.2	68.1	52.5	175.18	72.8	587.4	6,180.1	6,097.7	82.35	75.045	
13,500.0	7,975.1	14,502.2	8,066.2	69.2	52.5	175.15	72.9	587.4	6,280.1	6,197.7	82.40	76.211	
13,600.0	7,974.3	14,502.2	8,066.2	70.2	52.5	175.12	72.9	587.4	6,380.1	6,297.6	82.46	77.375	
13,700.0	7,973.5	14,502.3	8,066.2	71.2	52.5	175.09	72.9	587.4	6,480.0	6,397.5	82.51	78.537	
13,800.0	7,972.6	14,502.3	8,066.2	72.2	52.5	175.07	73.0	587.4	6,580.0	6,497.5	82.56	79.696	
13,900.0	7,971.8	14,502.4	8,066.2	73.2	52.5	175.04	73.0	587.4	6,680.0	6,597.4	82.62	80.853	
14,000.0	7,970.9	14,502.4	8,066.2	74.3	52.5	175.02	73.1	587.4	6,780.0	6,697.3	82.68	82.008	
14,100.0	7,970.1	14,502.4	8,066.2	75.3	52.5	174.99	73.1	587.4	6,880.0	6,797.3	82.73	83.160	
14,200.0	7,969.3	14,502.5	8,066.2	76.3	52.5	174.97	73.1	587.4	6,980.0	6,897.2	82.79	84.311	
14,300.0	7,968.4	14,502.5	8,066.2	77.4	52.5	174.94	73.2	587.4	7,080.0	6,997.1	82.85	85.458	
14,400.0	7,967.6	14,502.6	8,066.2	78.4	52.5	174.92	73.2	587.4	7,180.0	7,097.1	82.91	86.604	
14,500.0	7,966.8	14,502.6	8,066.2	79.5	52.5	174.89	73.3	587.4	7,280.0	7,197.0	82.97	87.747	
14,600.0	7,965.9	14,502.6	8,066.2	80.5	52.5	174.87	73.3	587.4	7,380.0	7,296.9	83.03	88.887	
14,700.0	7,965.1	14,502.7	8,066.2	81.5	52.5	174.85	73.3	587.4	7,480.0	7,396.9	83.09	90.026	
14,800.0	7,964.2	14,502.7	8,066.2	82.6	52.5	174.83	73.4	587.4	7,580.0	7,496.8	83.15	91.161	
14,900.0	7,963.4	14,502.7	8,066.2	83.6	52.5	174.81	73.4	587.4	7,680.0	7,596.7	83.21	92.294	
15,000.0	7,962.6	14,502.8	8,066.2	84.7	52.5	174.78	73.4	587.4	7,779.9	7,696.7	83.27	93.425	
15,100.0	7,961.7	14,502.8	8,066.2	85.7	52.5	174.76	73.5	587.4	7,879.9	7,796.6	83.34	94.553	
15,200.0	7,960.9	14,502.8	8,066.2	86.8	52.5	174.74	73.5	587.4	7,979.9	7,896.5	83.40	95.679	
15,300.0	7,960.1	14,502.9	8,066.2	87.8	52.5	174.72	73.5	587.4	8,079.9	7,996.5	83.47	96.802	
15,400.0	7,959.2	14,502.9	8,066.2	88.9	52.5	174.70	73.6	587.4	8,179.9	8,096.4	83.54	97.922	
15,500.0	7,958.4	14,502.9	8,066.2	89.9	52.5	174.68	73.6	587.4	8,279.9	8,196.3	83.60	99.040	
15,600.0	7,957.5	14,503.0	8,066.2	91.0	52.5	174.67	73.6	587.4	8,379.9	8,296.2	83.67	100.155	
15,700.0	7,956.7	14,503.0	8,066.2	92.1	52.5	174.65	73.6	587.4	8,479.9	8,396.2	83.74	101.267	
15,800.0	7,955.9	14,503.0	8,066.3	93.1	52.5	174.63	73.7	587.4	8,579.9	8,496.1	83.81	102.377	
15,900.0	7,955.0	14,503.0	8,066.3	94.2	52.5	174.61	73.7	587.4	8,679.9	8,596.0	83.88	103.484	
16,000.0	7,954.2	14,503.1	8,066.3	95.3	52.5	174.59	73.7	587.4	8,779.9	8,695.9	83.95	104.589	
16,100.0	7,953.4	14,503.1	8,066.3	96.3	52.5	174.58	73.8	587.4	8,879.9	8,795.9	84.02	105.691	
16,200.0	7,952.5	14,503.1	8,066.3	97.4	52.5	174.56	73.8	587.4	8,979.9	8,895.8	84.09	106.790	
16,300.0	7,951.7	14,503.2	8,066.3	98.5	52.5	174.54	73.8	587.4	9,079.9	8,995.7	84.16	107.886	
16,400.0	7,950.8	14,503.2	8,066.3	99.5	52.5	174.53	73.8	587.4	9,179.9	9,095.6	84.23	108.980	
16,500.0	7,950.0	14,503.2	8,066.3	100.6	52.5	174.51	73.9	587.4	9,279.9	9,195.6	84.31	110.071	
16,600.0	7,949.2	14,503.2	8,066.3	101.7	52.5	174.49	73.9	587.4	9,379.9	9,295.5	84.38	111.159	
16,700.0	7,948.3	14,503.3	8,066.3	102.7	52.5	174.48	73.9	587.4	9,479.9	9,395.4	84.46	112.244	
16,800.0	7,947.5	14,503.3	8,066.3	103.8	52.5	174.46	73.9	587.4	9,579.8	9,495.3	84.53	113.327	
16,900.0	7,946.6	14,503.3	8,066.3	104.9	52.5	174.45	74.0	587.4	9,679.8	9,595.2	84.61	114.407	
17,000.0	7,945.8	14,503.3	8,066.3	106.0	52.5	174.43	74.0	587.4	9,779.8	9,695.2	84.69	115.484	
17,100.0	7,945.0	14,503.4	8,066.3	107.0	52.5	174.42	74.0	587.4	9,879.8	9,795.1	84.76	116.558	
17,200.0	7,944.1	14,540.0	8,067.0	108.1	52.8	153.32	110.6	588.2	9,980.1	9,895.0	85.13	117.239	
17,300.0	7,943.3	14,540.0	8,067.0	109.2	52.8	153.32	110.6	588.2	10,080.1	9,994.9	85.20	118.305	
17,400.0	7,942.5	14,540.0	8,067.0	110.3	52.8	153.32	110.6	588.2	10,180.1	10,094.8	85.28	119.368	
17,500.0	7,941.6	14,540.0	8,067.0	111.3	52.8	153.32	110.6	588.2	10,280.1	10,194.8	85.36	120.428	

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 #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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		
17,600.0	7,940.8	14,540.0	8,067.0	112.4	52.8	153.32	110.6	588.2	10,380.1	10,294.7	85.44	121.485		
17,689.5	7,940.0	14,540.0	8,067.0	113.4	52.8	153.32	110.6	588.2	10,469.6	10,384.1	85.52	122.428		

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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' @ 3069.0usft (TBD)

Offset Depths are relative to Offset Datum

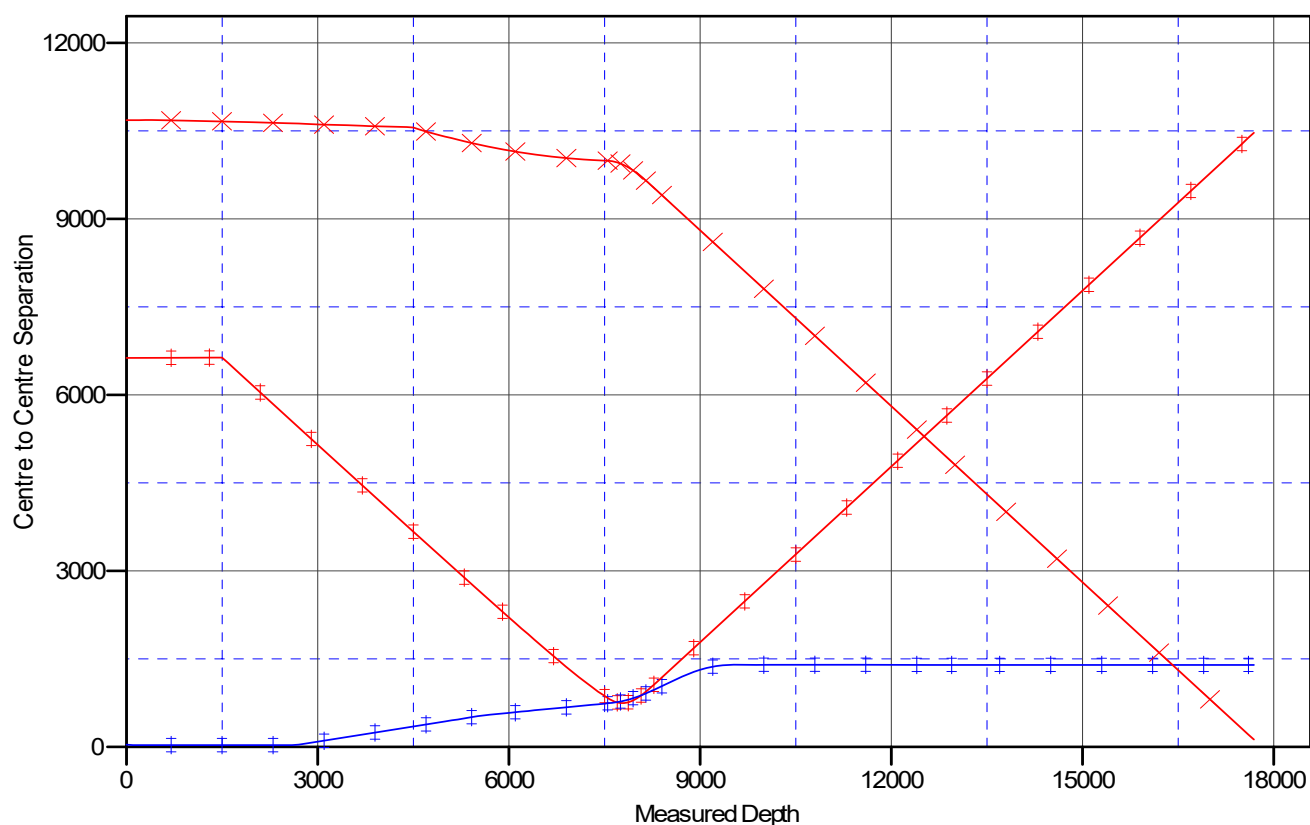
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #503H

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

Grid Convergence at Surface is: 0.12°

Ladder Plot



LEGEND

—x— MYOK 21STCOM #1H, OWB, ACTUALWELLPATH V0
 —+— MOODY ST COM #504H, OWB, PWP1 V0
 —x— MOODY 18STATE COM #1H, OWB, AWP V0

ConocoPhillips

Anticollision Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MOODY ST COM #503H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3069.0usft (TBD)
Reference Site:	MOODY ST COM PROJECT	MD Reference:	*KB=30' @ 3069.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MOODY ST COM #503H	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' @ 3069.0usft (TBD)

Offset Depths are relative to Offset Datum

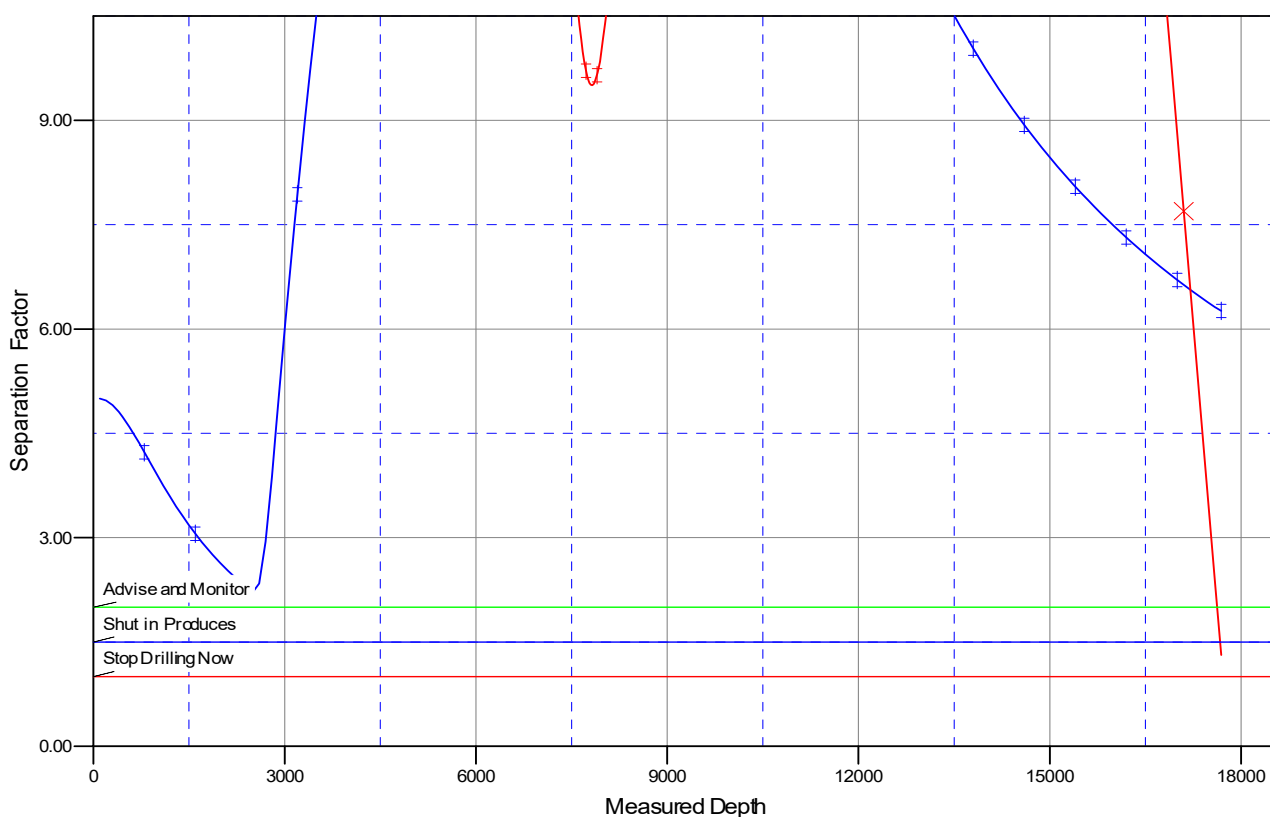
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MOODY ST COM #503H

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

—x— MYOK 21 STCOM #1H, OWB, ACT UALWELLPATH V0
 —+— MOODY ST COM #504H, OWB, PWP1 V0
 —x— MOODY 18 STATE COM #1H, OWB, AWP V0

Intent ☐ As Drilled ☐

API # 30-015-		
Operator Name: COG OPERATING LLC	Property Name: MOODY STATE COM	Well Number 503H

Kick Off Point (KOP)

UL I	Section 17	Township 25S	Range 28E	Lot	Feet 1520'	From N/S S	Feet 270'	From E/W E	County EDDY
Latitude 32.12674921					Longitude -104.10176922				NAD 83

First Take Point (FTP)

UL I	Section 17	Township 25S	Range 28E	Lot	Feet 1730'	From N/S S	Feet 330'	From E/W E	County Eddy
Latitude 32.12732516					Longitude -104.10196829				NAD 83

Last Take Point (LTP)

UL D	Section 18	Township 25S	Range 28E	Lot 3	Feet 1730'	From N/S S	Feet 500'	From E/W W	County EDDY
Latitude 32.12746339					Longitude -104.13380109				NAD 83

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

☐ Y

Is this well an infill well?

☐ N

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

API # 30-015-		
Operator Name: COG OPERATING LLC	Property Name: MOODY STATE COM	Well Number 503H