

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No. 30-025-50280

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

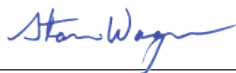
TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature



Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NWNW / 270 FNL / 1340 FEL / TWSP: 23S / RANGE: 33E / SECTION: 18 / LAT: 32.311278 / LONG: -103.607259 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 1 FNL / 1650 FEL / TWSP: 23S / RANGE: 33E / SECTION: 19 / LAT: 32.297514 / LONG: -103.608249 (TVD: 12495 feet, MD: 17600 feet)

PPP: NWNW / 100 FNL / 1650 FEL / TWSP: 23S / RANGE: 33E / SECTION: 18 / LAT: 32.311748 / LONG: -103.608263 (TVD: 12315 feet, MD: 12381 feet)

BHL: SWSE / 50 FSL / 1650 FEL / TWSP: 23S / RANGE: 33E / SECTION: 30 / LAT: 32.268619 / LONG: -103.608221 (TVD: 12550 feet, MD: 27949 feet)

CONFIDENTIAL

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 98135	Pool Name WC-025 G-09 S243310P; Upper Wolfcamp
Property Code	Property Name MEAT LOVER FEDERAL COM	Well Number 603H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3716.4'

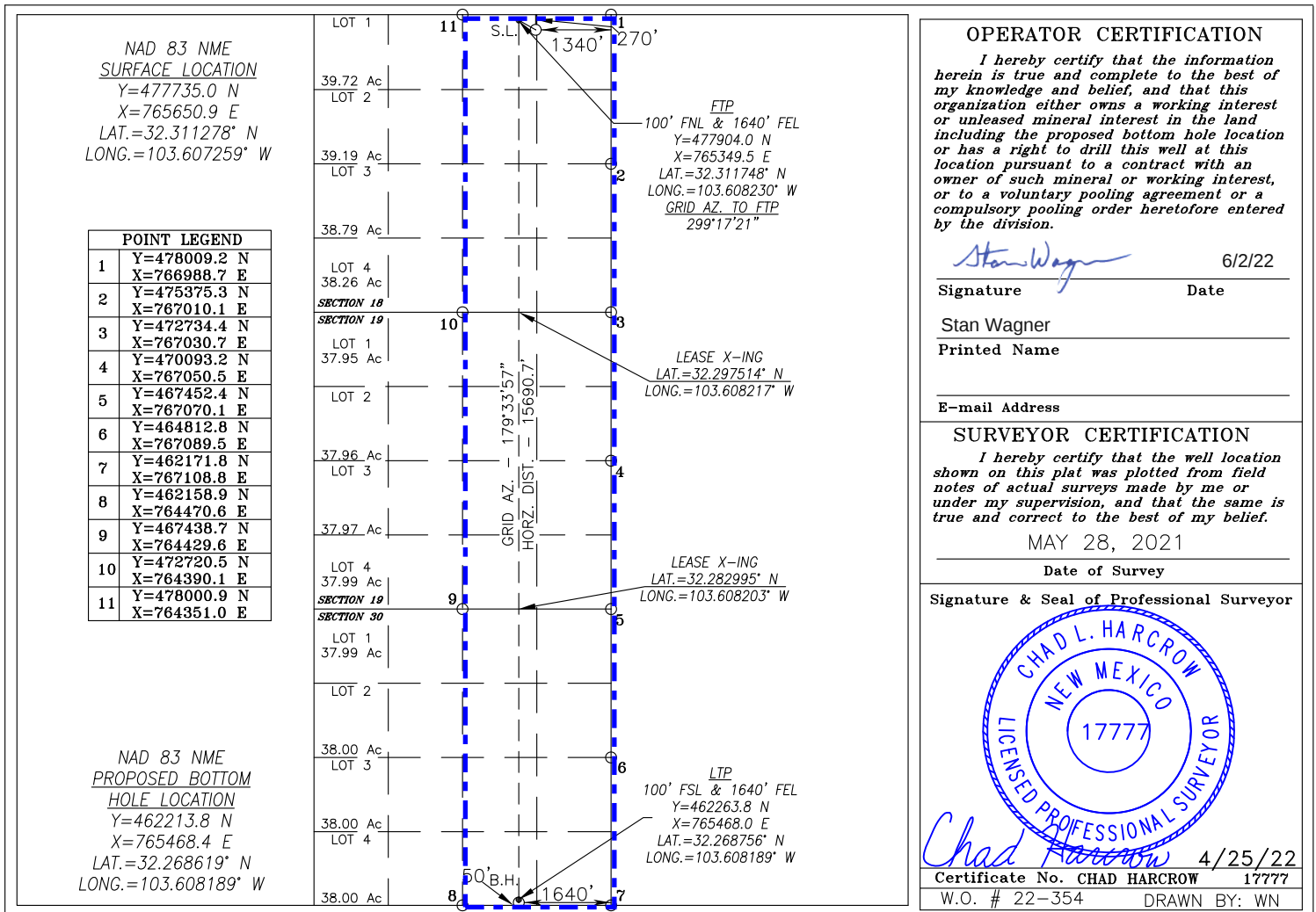
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	23-S	33-E		270	NORTH	1340	EAST	LEA

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
O	30	23-S	33-E		50	SOUTH	1640	EAST	LEA
Dedicated Acres 960	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



ConocoPhillips - Meat Lover Fed Com 603H

1. Geologic Formations

TVD of target	12,470' EOL	Pilot hole depth	NA
MD at TD:	27,949'	Deepest expected fresh water:	345'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1310	Water	
Top of Salt	1805	Salt	
Base of Salt	4789	Salt	
Lamar	5074	Salt Water	
Bell Canyon	5149	Salt Water	
Cherry Canyon	5954	Oil/Gas	
Brushy Canyon	7422	Oil/Gas	
Bone Spring Lime	8892	Oil/Gas	
1st Bone Spring Sand	10124	Oil/Gas	
2nd Bone Spring Sand	10740	Oil/Gas	
2nd Bone Spring Sand Base	11319	Oil/Gas	
3rd Bone Spring Sand	11984	Oil/Gas	
Wolfcamp A Sands	12470	Target Oil/Gas	
Wolfcamp A Shale	12540	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1350	10.75"	45.5	J55	BTC	3.38	1.08	11.64	12.96
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.07	2.88	2.90
8.750"	8500	11800	7.625"	29.7	P110 RY	W 513	1.28	1.42	2.68	1.61
6.75"	0	11300	5.5"	23	P110	BTC	1.98	2.34	2.80	2.79
6.75"	11300	27,949	5.5"	23	P110	W441	1.79	2.12	2.54	2.31
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

The 5 1/2" W441 casing will be run back at least 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips - Meat Lover Fed Com 603H

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

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3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	840	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	524	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1570	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,300'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.4	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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

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

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8110 psi at 12470' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

MEAT LOVER FED COM PROJECT

MEAT LOVER FED COM #603H

OWB

PWP2

Anticollision Report

26 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference	PWP2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 1,000.0usft
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	4/26/2022
From (usft)	To (usft)	Survey (Wellbore)
0.0	11,913.0	PWP2 (OWB)
11,913.0	27,949.3	PWP2 (OWB)
		Tool Name
		Standard Keeper 104
		MWD+IFR1+FDIR
		Description
		Standard Wireline Keeper ver 1.0.4
		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						
MEAT LOVER FED COM PROJECT						
BRINNINSTOOL UNIT #3-P&A'd - OWB - AWP	22,057.1	12,489.5	354.1	15.9	1.047	Advise and Monitor, CC, I
JAGUAR `18` STATE #3H - OWB - AWP	9,797.5	14,158.0	681.8	600.8	8.412	CC, ES, SF
MEAT LOVER FED COM #601H - OWB - PWP2	2,500.0	2,499.4	60.0	53.1	8.701	CC, ES, SF
MEAT LOVER FED COM #602H - OWB - PWP2	2,416.6	2,416.7	30.0	23.2	4.386	CC
MEAT LOVER FED COM #602H - OWB - PWP2	2,500.0	2,500.0	30.0	23.1	4.350	ES
MEAT LOVER FED COM #602H - OWB - PWP2	26,631.2	26,629.0	640.4	404.2	2.712	SF
MEAT LOVER FED COM #604H - OWB - PWP1	2,500.0	2,499.8	29.9	23.0	4.336	CC, ES
MEAT LOVER FED COM #604H - OWB - PWP1	27,949.7	27,982.9	670.0	397.1	2.455	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

TD Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
MEAT LOVER FED COM PROJECT						
BRINNINSTOOL UNIT #3-P&A'd - OWB - AWP	27,949.7	12,520.6				Out of Range @TD
JAGUAR `18` STATE #3H - OWB - AWP	27,949.7	9,350.0				Out of Range @TD
MEAT LOVER FED COM #601H - OWB - PWP2	27,949.7	26,693.1				Out of Range @TD
MEAT LOVER FED COM #602H - OWB - PWP2	27,949.7	26,629.0				Out of Range @TD
MEAT LOVER FED COM #604H - OWB - PWP1	27,949.7	27,982.9	670.0	397.1	2.455 SF	

Offset Design: MEAT LOVER FED COM PROJECT - BRINNINSTOOL UNIT #3-P&A'd - OWB - AWP

Survey Program: 15760-INC-ONLY													Offset Site Error:	0.0 usft
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error:	5.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
21,200.0	12,514.4	12,485.0	12,485.0	78.3	252.4	89.27	-9,631.2	-581.3	927.4	637.1	290.31	3.194		
21,300.0	12,514.9	12,485.5	12,485.5	79.2	252.5	89.35	-9,631.2	-581.3	835.8	542.8	293.05	2.852		
21,400.0	12,515.4	12,486.0	12,486.0	80.1	252.5	89.44	-9,631.2	-581.3	746.5	450.0	296.49	2.518		
21,500.0	12,515.9	12,486.5	12,486.5	80.9	252.5	89.52	-9,631.2	-581.3	660.1	359.3	300.86	2.194		
21,600.0	12,516.5	12,487.1	12,487.1	81.8	252.5	89.61	-9,631.2	-581.3	578.2	271.8	306.40	1.887 Advise and Monitor		
21,700.0	12,517.0	12,487.6	12,487.6	82.6	252.5	89.69	-9,631.2	-581.3	502.9	189.6	313.35	1.605 Advise and Monitor		
21,800.0	12,517.5	12,488.1	12,488.1	83.5	252.5	89.78	-9,631.2	-581.3	437.6	116.0	321.60	1.361 Advise and Monitor		
21,900.0	12,518.1	12,488.7	12,488.7	84.3	252.5	89.87	-9,631.2	-581.3	387.4	57.2	330.19	1.173 Advise and Monitor		
22,000.0	12,518.6	12,489.2	12,489.2	85.2	252.5	89.95	-9,631.2	-581.3	358.7	22.0	336.67	1.065 Advise and Monitor		
22,057.1	12,518.9	12,489.5	12,489.5	85.7	252.5	90.00	-9,631.2	-581.3	354.1	15.9	338.22	1.047 Advise and Monitor, CC, ES, SF		
22,100.0	12,519.1	12,489.7	12,489.7	86.1	252.5	90.04	-9,631.2	-581.3	356.7	18.6	338.09	1.055 Advise and Monitor		
22,200.0	12,519.6	12,490.2	12,490.2	86.9	252.6	90.12	-9,631.2	-581.3	381.8	47.8	333.98	1.143 Advise and Monitor		
22,300.0	12,520.2	12,490.8	12,490.8	87.8	252.6	90.21	-9,631.2	-581.3	429.4	102.5	326.89	1.313 Advise and Monitor		
22,400.0	12,520.7	12,491.3	12,491.3	88.6	252.6	90.29	-9,631.2	-581.3	492.9	173.4	319.47	1.543 Advise and Monitor		
22,500.0	12,521.2	12,491.8	12,491.8	89.5	252.6	90.38	-9,631.2	-581.3	567.0	254.0	312.98	1.812 Advise and Monitor		
22,600.0	12,521.8	12,492.4	12,492.4	90.4	252.6	90.46	-9,631.2	-581.3	648.1	340.4	307.73	2.106		
22,700.0	12,522.3	12,492.9	12,492.9	91.2	252.6	90.55	-9,631.2	-581.3	733.9	430.3	303.58	2.418		
22,800.0	12,522.8	12,493.4	12,493.4	92.1	252.6	90.63	-9,631.2	-581.3	822.9	522.6	300.33	2.740		
22,900.0	12,523.3	12,493.9	12,493.9	92.9	252.6	90.72	-9,631.2	-581.3	914.2	616.4	297.78	3.070		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - JAGUAR `18` STATE #3H - OWB - AWP													Offset Site Error:	0.0 usft			
Survey Program: 5112-MWD				Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
9,100.0	9,084.9	14,158.0	9,775.0	11.2	78.7	-112.52	-72.2	-931.1	975.4	903.7	71.70	13.603					
9,200.0	9,184.9	14,158.0	9,775.0	11.3	78.7	-112.52	-72.2	-931.1	906.6	832.9	73.65	12.309					
9,300.0	9,284.9	14,158.0	9,775.0	11.4	78.7	-112.52	-72.2	-931.1	844.0	768.4	75.63	11.160					
9,400.0	9,384.9	14,158.0	9,775.0	11.5	78.7	-112.52	-72.2	-931.1	789.2	711.7	77.51	10.182					
9,500.0	9,484.9	14,158.0	9,775.0	11.7	78.7	-112.52	-72.2	-931.1	743.9	664.8	79.13	9.401					
9,600.0	9,584.9	14,158.0	9,775.0	11.8	78.7	-112.52	-72.2	-931.1	709.8	629.5	80.30	8.840					
9,700.0	9,684.9	14,158.0	9,775.0	11.9	78.7	-112.52	-72.2	-931.1	688.8	607.8	80.92	8.512					
9,797.5	9,782.4	14,158.0	9,775.0	12.0	78.7	-112.52	-72.2	-931.1	681.8	600.8	81.05	8.412	CC, ES, SF				
9,800.0	9,784.9	14,158.0	9,775.0	12.0	78.7	-112.52	-72.2	-931.1	681.8	600.8	81.05	8.412					
9,900.0	9,884.9	14,158.0	9,775.0	12.1	78.7	-112.52	-72.2	-931.1	689.5	608.6	80.84	8.529					
10,000.0	9,984.9	14,158.0	9,775.0	12.3	78.7	-112.52	-72.2	-931.1	711.3	631.0	80.30	8.858					
10,100.0	10,084.9	14,158.0	9,775.0	12.4	78.7	-112.52	-72.2	-931.1	745.9	666.5	79.42	9.393					
10,200.0	10,184.9	14,158.0	9,775.0	12.5	78.7	-112.52	-72.2	-931.1	791.8	713.5	78.24	10.119					
10,300.0	10,284.9	14,158.0	9,775.0	12.6	78.7	-112.52	-72.2	-931.1	847.0	770.1	76.92	11.012					
10,400.0	10,384.9	14,158.0	9,775.0	12.7	78.7	-112.52	-72.2	-931.1	909.9	834.3	75.56	12.042					
10,500.0	10,484.9	14,158.0	9,775.0	12.9	78.7	-112.52	-72.2	-931.1	979.0	904.7	74.28	13.180					

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #601H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11978-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	89.81	0.2	60.0	60.0					
100.0	100.0	99.4	99.4	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.00	10.000		
200.0	200.0	199.4	199.4	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.00	9.995		
300.0	300.0	299.4	299.4	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.01	9.985		
400.0	400.0	399.4	399.4	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.02	9.970		
500.0	500.0	499.4	499.4	3.1	3.1	89.81	0.2	60.0	60.0	54.0	6.03	9.949		
600.0	600.0	599.4	599.4	3.1	3.1	89.81	0.2	60.0	60.0	54.0	6.05	9.924		
700.0	700.0	699.4	699.4	3.1	3.1	89.81	0.2	60.0	60.0	53.9	6.07	9.893		
800.0	800.0	799.4	799.4	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.09	9.857		
900.0	900.0	899.4	899.4	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.11	9.817		
1,000.0	1,000.0	999.4	999.4	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.14	9.772		
1,100.0	1,100.0	1,099.4	1,099.4	3.3	3.3	89.81	0.2	60.0	60.0	53.8	6.17	9.722		
1,200.0	1,200.0	1,199.4	1,199.4	3.4	3.4	89.81	0.2	60.0	60.0	53.8	6.21	9.669		
1,300.0	1,300.0	1,299.4	1,299.4	3.4	3.4	89.81	0.2	60.0	60.0	53.8	6.24	9.611		
1,400.0	1,400.0	1,399.4	1,399.4	3.5	3.5	89.81	0.2	60.0	60.0	53.7	6.28	9.550		
1,500.0	1,500.0	1,499.4	1,499.4	3.5	3.5	89.81	0.2	60.0	60.0	53.7	6.33	9.485		
1,600.0	1,600.0	1,599.4	1,599.4	3.6	3.6	89.81	0.2	60.0	60.0	53.6	6.37	9.417		
1,700.0	1,700.0	1,699.4	1,699.4	3.7	3.7	89.81	0.2	60.0	60.0	53.6	6.42	9.347		
1,800.0	1,800.0	1,799.4	1,799.4	3.8	3.8	89.81	0.2	60.0	60.0	53.5	6.47	9.273		
1,900.0	1,900.0	1,899.4	1,899.4	3.9	3.9	89.81	0.2	60.0	60.0	53.5	6.52	9.197		
2,000.0	2,000.0	1,999.4	1,999.4	3.9	3.9	89.81	0.2	60.0	60.0	53.4	6.58	9.118		
2,100.0	2,100.0	2,099.4	2,099.4	4.0	4.0	89.81	0.2	60.0	60.0	53.4	6.64	9.038		
2,200.0	2,200.0	2,199.4	2,199.4	4.1	4.1	89.81	0.2	60.0	60.0	53.3	6.70	8.956		
2,300.0	2,300.0	2,299.4	2,299.4	4.2	4.2	89.81	0.2	60.0	60.0	53.2	6.76	8.872		
2,400.0	2,400.0	2,399.4	2,399.4	4.3	4.3	89.81	0.2	60.0	60.0	53.2	6.83	8.787		
2,500.0	2,500.0	2,499.4	2,499.4	4.4	4.4	89.81	0.2	60.0	60.0	53.1	6.90	8.701 CC, ES, SF		
2,600.0	2,600.0	2,597.3	2,597.3	4.5	4.5	148.21	0.5	61.6	63.1	56.2	6.97	9.064		
2,700.0	2,699.8	2,694.6	2,694.4	4.5	4.5	149.44	1.5	66.5	72.6	65.5	7.04	10.307		
2,750.0	2,749.7	2,742.8	2,742.5	4.6	4.5	150.16	2.2	70.1	79.7	72.6	7.08	11.246		
2,800.0	2,799.5	2,790.8	2,790.3	4.6	4.5	150.82	3.1	74.4	87.9	80.8	7.13	12.338		
2,900.0	2,899.1	2,885.8	2,884.7	4.7	4.6	151.49	5.4	85.4	106.9	99.7	7.22	14.807		
3,000.0	2,998.7	2,979.7	2,977.4	4.8	4.6	151.56	8.2	99.3	129.0	121.6	7.32	17.628		
3,100.0	3,098.4	3,075.8	3,072.1	4.8	4.7	151.39	11.5	115.5	153.2	145.7	7.42	20.641		
3,200.0	3,198.0	3,172.8	3,167.6	4.9	4.8	151.26	14.9	132.1	177.4	169.9	7.53	23.556		
3,300.0	3,297.6	3,269.8	3,263.2	5.0	4.8	151.16	18.2	148.6	201.7	194.0	7.65	26.364		
3,400.0	3,397.2	3,366.8	3,358.7	5.1	4.9	151.09	21.6	165.1	226.0	218.2	7.77	29.063		
3,500.0	3,496.8	3,463.8	3,454.2	5.2	5.0	151.02	24.9	181.6	250.2	242.3	7.91	31.654		
3,600.0	3,596.4	3,560.8	3,549.8	5.2	5.0	150.97	28.3	198.1	274.5	266.5	8.04	34.138		
3,700.0	3,696.1	3,657.8	3,645.3	5.3	5.1	150.93	31.6	214.6	298.8	290.6	8.18	36.514		
3,800.0	3,795.7	3,754.8	3,740.8	5.4	5.2	150.89	35.0	231.1	323.0	314.7	8.33	38.787		
3,900.0	3,895.3	3,851.9	3,836.4	5.5	5.3	150.86	38.3	247.6	347.3	338.8	8.48	40.958		
4,000.0	3,994.9	3,948.9	3,931.9	5.6	5.3	150.83	41.7	264.1	371.6	362.9	8.64	43.030		
4,100.0	4,094.5	4,045.9	4,027.5	5.7	5.4	150.81	45.1	280.6	395.8	387.1	8.80	45.006		
4,200.0	4,194.2	4,142.9	4,123.0	5.8	5.5	150.79	48.4	297.1	420.1	411.2	8.96	46.889		
4,300.0	4,293.8	4,239.9	4,218.5	5.9	5.6	150.77	51.8	313.6	444.4	435.3	9.13	48.684		
4,400.0	4,393.4	4,336.9	4,314.1	6.0	5.7	150.75	55.1	330.1	468.7	459.4	9.30	50.392		
4,500.0	4,493.0	4,433.9	4,409.6	6.1	5.8	150.74	58.5	346.7	492.9	483.5	9.48	52.019		
4,600.0	4,592.6	4,530.9	4,505.1	6.2	5.9	150.72	61.8	363.2	517.2	507.5	9.66	53.567		
4,700.0	4,692.3	4,627.9	4,600.7	6.3	6.0	150.71	65.2	379.7	541.5	531.6	9.84	55.040		
4,800.0	4,791.9	4,724.9	4,696.2	6.4	6.1	150.70	68.6	396.2	565.7	555.7	10.02	56.442		
4,900.0	4,891.5	4,822.0	4,791.7	6.5	6.2	150.69	71.9	412.7	590.0	579.8	10.21	57.776		
5,000.0	4,991.1	4,919.0	4,887.3	6.6	6.3	150.68	75.3	429.2	614.3	603.9	10.40	59.045		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design:MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #601H - OWB - PWP2													Offset Site Error:		0.0 usft
Survey Program:		0-Standard Keeper 104, 11978-MWD+IFR1+MS						Rule Assigned:					Offset Well Error:		3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Offset Well Error:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.0	5,090.7	5,016.0	4,982.8	6.7	6.4	150.67	78.6	445.7	638.6	628.0	10.60	60.253			
5,200.0	5,190.4	5,113.0	5,078.4	6.8	6.5	150.66	82.0	462.2	662.8	652.0	10.79	61.402			
5,300.0	5,290.0	5,210.0	5,173.9	6.9	6.6	150.65	85.3	478.7	687.1	676.1	10.99	62.495			
5,400.0	5,389.6	5,307.0	5,269.4	7.0	6.7	150.65	88.7	495.2	711.4	700.2	11.20	63.537			
5,500.0	5,489.2	5,404.0	5,365.0	7.1	6.8	150.64	92.1	511.7	735.6	724.2	11.40	64.528			
5,600.0	5,588.8	5,501.0	5,460.5	7.2	6.9	150.63	95.4	528.2	759.9	748.3	11.61	65.471			
5,700.0	5,688.5	5,598.0	5,556.0	7.4	7.0	150.63	98.8	544.7	784.2	772.4	11.82	66.370			
5,800.0	5,788.1	5,695.0	5,651.6	7.5	7.2	150.62	102.1	561.3	808.5	796.4	12.03	67.226			
5,900.0	5,887.7	5,792.1	5,747.1	7.6	7.3	150.62	105.5	577.8	832.7	820.5	12.24	68.042			
6,000.0	5,987.3	5,889.1	5,842.6	7.7	7.4	150.61	108.8	594.3	857.0	844.5	12.45	68.819			
6,100.0	6,086.9	5,986.1	5,938.2	7.8	7.5	150.61	112.2	610.8	881.3	868.6	12.67	69.560			
6,200.0	6,186.6	6,083.1	6,033.7	7.9	7.6	150.60	115.5	627.3	905.5	892.6	12.89	70.266			
6,300.0	6,286.2	6,180.1	6,129.2	8.0	7.7	150.60	118.9	643.8	929.8	916.7	13.11	70.940			
6,400.0	6,385.8	6,277.1	6,224.8	8.1	7.9	150.59	122.3	660.3	954.1	940.7	13.33	71.583			
6,455.6	6,441.2	6,331.1	6,277.9	8.2	7.9	150.59	124.1	669.5	967.6	954.1	13.45	71.928			
6,500.0	6,485.4	6,374.2	6,320.4	8.3	8.0	150.64	125.6	676.8	978.2	964.7	13.55	72.186			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.1	0.1	3.0	3.0	3.0	89.81	0.1	30.0	30.0				
100.0	100.0	100.1	100.1	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	5.000	
200.0	200.0	200.1	200.1	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	4.998	
300.0	300.0	300.1	300.1	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.01	4.993	
400.0	400.0	400.1	400.1	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.02	4.985	
500.0	500.0	500.1	500.1	3.1	3.1	3.1	89.81	0.1	30.0	30.0	24.0	6.03	4.975	
600.0	600.0	600.1	600.1	3.1	3.1	3.1	89.81	0.1	30.0	30.0	24.0	6.05	4.962	
700.0	700.0	700.1	700.1	3.1	3.1	3.1	89.81	0.1	30.0	30.0	23.9	6.07	4.946	
800.0	800.0	800.1	800.1	3.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.09	4.928	
900.0	900.0	900.1	900.1	3.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	1,000.1	1,000.1	3.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.14	4.886	
1,100.0	1,100.0	1,100.1	1,100.1	3.3	3.3	3.3	89.81	0.1	30.0	30.0	23.8	6.17	4.861	
1,200.0	1,200.0	1,200.1	1,200.1	3.4	3.4	3.4	89.81	0.1	30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,300.1	1,300.1	3.4	3.4	3.4	89.81	0.1	30.0	30.0	23.8	6.24	4.805	
1,400.0	1,400.0	1,400.1	1,400.1	3.5	3.5	3.5	89.81	0.1	30.0	30.0	23.7	6.28	4.775	
1,500.0	1,500.0	1,500.1	1,500.1	3.5	3.5	3.5	89.81	0.1	30.0	30.0	23.7	6.33	4.743	
1,600.0	1,600.0	1,600.1	1,600.1	3.6	3.6	3.6	89.81	0.1	30.0	30.0	23.6	6.37	4.709	
1,700.0	1,700.0	1,700.1	1,700.1	3.7	3.7	3.7	89.81	0.1	30.0	30.0	23.6	6.42	4.673	
1,800.0	1,800.0	1,800.1	1,800.1	3.8	3.8	3.8	89.81	0.1	30.0	30.0	23.5	6.47	4.636	
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	3.9	89.81	0.1	30.0	30.0	23.5	6.52	4.598	
2,000.0	2,000.0	2,000.1	2,000.1	3.9	3.9	3.9	89.81	0.1	30.0	30.0	23.4	6.58	4.559	
2,100.0	2,100.0	2,100.1	2,100.1	4.0	4.0	4.0	89.81	0.1	30.0	30.0	23.4	6.64	4.519	
2,200.0	2,200.0	2,200.1	2,200.1	4.1	4.1	4.1	89.81	0.1	30.0	30.0	23.3	6.70	4.478	
2,300.0	2,300.0	2,300.1	2,300.1	4.2	4.2	4.2	89.81	0.1	30.0	30.0	23.2	6.76	4.436	
2,400.0	2,400.0	2,400.1	2,400.1	4.3	4.3	4.3	89.81	0.1	30.0	30.0	23.2	6.83	4.393	
2,416.6	2,416.6	2,416.7	2,416.7	4.3	4.3	4.3	89.81	0.1	30.0	30.0	23.2	6.84	4.386 CC	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	4.4	89.81	0.1	30.0	30.0	23.1	6.90	4.350 ES	
2,600.0	2,600.0	2,599.1	2,599.1	4.5	4.5	4.5	147.73	1.0	31.5	33.0	26.0	6.97	4.731	
2,700.0	2,699.8	2,697.6	2,697.5	4.5	4.5	4.5	147.75	3.7	35.8	41.8	34.7	7.04	5.935	
2,750.0	2,749.7	2,746.5	2,746.2	4.6	4.6	4.6	147.76	5.7	39.0	48.4	41.3	7.08	6.834	
2,800.0	2,799.5	2,796.0	2,795.5	4.6	4.6	4.6	147.79	7.9	42.7	55.8	48.6	7.12	7.829	
2,900.0	2,899.1	2,894.9	2,894.0	4.7	4.7	4.7	147.84	12.5	50.0	70.5	63.3	7.21	9.778	
3,000.0	2,998.7	2,993.8	2,992.5	4.8	4.7	4.7	147.87	17.0	57.4	85.3	78.0	7.31	11.668	
3,100.0	3,098.4	3,092.7	3,091.0	4.8	4.8	4.8	147.89	21.5	64.7	100.0	92.6	7.41	13.498	
3,200.0	3,198.0	3,191.6	3,189.6	4.9	4.9	4.9	147.91	26.0	72.0	114.8	107.3	7.52	15.266	
3,300.0	3,297.6	3,290.5	3,288.1	5.0	5.0	5.0	147.92	30.6	79.4	129.6	121.9	7.63	16.970	
3,400.0	3,397.2	3,389.4	3,386.6	5.1	5.1	5.1	147.93	35.1	86.7	144.3	136.6	7.75	18.612	
3,500.0	3,496.8	3,488.3	3,485.2	5.2	5.1	5.1	147.94	39.6	94.0	159.1	151.2	7.88	20.190	
3,600.0	3,596.4	3,587.2	3,583.7	5.2	5.2	5.2	147.94	44.1	101.4	173.8	165.8	8.01	21.705	
3,700.0	3,696.1	3,686.1	3,682.2	5.3	5.3	5.3	147.95	48.7	108.7	188.6	180.5	8.14	23.158	
3,800.0	3,795.7	3,785.0	3,780.7	5.4	5.4	5.4	147.96	53.2	116.1	203.4	195.1	8.28	24.550	
3,900.0	3,895.3	3,883.9	3,879.3	5.5	5.5	5.5	147.96	57.7	123.4	218.1	209.7	8.43	25.883	
4,000.0	3,994.9	3,982.8	3,977.8	5.6	5.6	5.6	147.96	62.2	130.7	232.9	224.3	8.58	27.157	
4,100.0	4,094.5	4,081.7	4,076.3	5.7	5.7	5.7	147.97	66.8	138.1	247.7	238.9	8.73	28.375	
4,200.0	4,194.2	4,180.6	4,174.9	5.8	5.8	5.8	147.97	71.3	145.4	262.4	253.5	8.88	29.539	
4,300.0	4,293.8	4,279.5	4,273.4	5.9	5.9	5.9	147.97	75.8	152.7	277.2	268.1	9.04	30.650	
4,400.0	4,393.4	4,378.4	4,371.9	6.0	6.0	6.0	147.97	80.3	160.1	291.9	282.7	9.21	31.710	
4,500.0	4,493.0	4,477.3	4,470.4	6.1	6.1	6.1	147.98	84.9	167.4	306.7	297.3	9.37	32.722	
4,600.0	4,592.6	4,576.2	4,569.0	6.2	6.2	6.2	147.98	89.4	174.7	321.5	311.9	9.54	33.687	
4,700.0	4,692.3	4,675.1	4,667.5	6.3	6.3	6.3	147.98	93.9	182.1	336.2	326.5	9.71	34.608	
4,800.0	4,791.9	4,774.0	4,766.0	6.4	6.4	6.4	147.98	98.4	189.4	351.0	341.1	9.89	35.486	
4,900.0	4,891.5	4,872.9	4,864.6	6.5	6.5	6.5	147.98	103.0	196.8	365.7	355.7	10.07	36.323	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,991.1	4,971.9	4,963.1	6.6	6.6	147.98	107.5	204.1	380.5	370.2	10.25	37.122		
5,100.0	5,090.7	5,070.8	5,061.6	6.7	6.7	147.99	112.0	211.4	395.3	384.8	10.43	37.883		
5,200.0	5,190.4	5,169.7	5,160.1	6.8	6.8	147.99	116.5	218.8	410.0	399.4	10.62	38.609		
5,300.0	5,290.0	5,268.6	5,258.7	6.9	6.9	147.99	121.1	226.1	424.8	414.0	10.81	39.302		
5,400.0	5,389.6	5,367.5	5,357.2	7.0	7.0	147.99	125.6	233.4	439.5	428.5	11.00	39.963		
5,500.0	5,489.2	5,466.4	5,455.7	7.1	7.1	147.99	130.1	240.8	454.3	443.1	11.19	40.594		
5,600.0	5,588.8	5,565.3	5,554.3	7.2	7.2	147.99	134.6	248.1	469.1	457.7	11.39	41.195		
5,700.0	5,688.5	5,664.2	5,652.8	7.4	7.3	147.99	139.2	255.4	483.8	472.2	11.58	41.770		
5,800.0	5,788.1	5,763.1	5,751.3	7.5	7.4	147.99	143.7	262.8	498.6	486.8	11.78	42.318		
5,900.0	5,887.7	5,862.0	5,849.8	7.6	7.5	147.99	148.2	270.1	513.3	501.4	11.98	42.842		
6,000.0	5,987.3	5,960.9	5,948.4	7.7	7.6	147.99	152.8	277.5	528.1	515.9	12.18	43.342		
6,100.0	6,086.9	6,059.8	6,046.9	7.8	7.7	147.99	157.3	284.8	542.9	530.5	12.39	43.819		
6,200.0	6,186.6	6,158.7	6,145.4	7.9	7.9	147.99	161.8	292.1	557.6	545.0	12.59	44.276		
6,300.0	6,286.2	6,257.6	6,244.0	8.0	8.0	148.00	166.3	299.5	572.4	559.6	12.80	44.712		
6,400.0	6,385.8	6,356.5	6,342.5	8.1	8.1	148.00	170.9	306.8	587.1	574.1	13.01	45.129		
6,455.6	6,441.2	6,411.6	6,397.3	8.2	8.1	148.00	173.4	310.9	595.4	582.2	13.13	45.354		
6,500.0	6,485.4	6,455.4	6,441.0	8.3	8.2	148.02	175.4	314.1	601.8	588.5	13.22	45.518		
6,600.0	6,585.2	6,554.7	6,539.9	8.4	8.3	148.01	179.9	321.5	615.1	601.7	13.43	45.802		
6,700.0	6,685.0	6,664.1	6,649.0	8.5	8.4	147.94	184.4	328.7	626.2	612.6	13.63	45.939		
6,800.0	6,785.0	6,774.1	6,758.8	8.6	8.6	147.87	187.7	334.2	634.2	620.4	13.83	45.850		
6,900.0	6,884.9	6,884.4	6,869.0	8.7	8.7	147.79	190.0	337.8	639.1	625.1	14.03	45.537		
6,955.6	6,940.6	6,945.9	6,930.5	8.8	8.8	89.84	190.8	339.1	640.5	626.3	14.13	45.312		
7,000.0	6,984.9	6,994.9	6,979.5	8.8	8.8	89.81	191.1	339.7	641.0	626.8	14.20	45.130		
7,100.0	7,084.9	7,100.5	7,085.0	8.9	8.9	89.79	191.3	339.9	641.2	626.9	14.32	44.786		
7,200.0	7,184.9	7,200.5	7,185.0	9.0	9.0	89.79	191.3	339.9	641.2	626.8	14.41	44.489		
7,300.0	7,284.9	7,300.5	7,285.0	9.1	9.1	89.79	191.3	339.9	641.2	626.7	14.51	44.193		
7,400.0	7,384.9	7,400.5	7,385.0	9.3	9.3	89.79	191.3	339.9	641.2	626.6	14.61	43.899		
7,500.0	7,484.9	7,500.5	7,485.0	9.4	9.4	89.79	191.3	339.9	641.2	626.5	14.71	43.606		
7,600.0	7,584.9	7,600.5	7,585.0	9.5	9.5	89.79	191.3	339.9	641.2	626.4	14.80	43.316		
7,700.0	7,684.9	7,700.5	7,685.0	9.6	9.6	89.79	191.3	339.9	641.2	626.3	14.90	43.028		
7,800.0	7,784.9	7,800.5	7,785.0	9.7	9.7	89.79	191.3	339.9	641.2	626.2	15.00	42.741		
7,900.0	7,884.9	7,900.5	7,885.0	9.8	9.8	89.79	191.3	339.9	641.2	626.1	15.10	42.457		
8,000.0	7,984.9	8,000.5	7,985.0	9.9	9.9	89.79	191.3	339.9	641.2	626.0	15.20	42.175		
8,100.0	8,084.9	8,100.5	8,085.0	10.0	10.0	89.79	191.3	339.9	641.2	625.9	15.31	41.894		
8,200.0	8,184.9	8,200.5	8,185.0	10.2	10.1	89.79	191.3	339.9	641.2	625.8	15.41	41.616		
8,300.0	8,284.9	8,300.5	8,285.0	10.3	10.3	89.79	191.3	339.9	641.2	625.7	15.51	41.340		
8,400.0	8,384.9	8,400.5	8,385.0	10.4	10.4	89.79	191.3	339.9	641.2	625.6	15.61	41.066		
8,500.0	8,484.9	8,500.5	8,485.0	10.5	10.5	89.79	191.3	339.9	641.2	625.5	15.72	40.794		
8,600.0	8,584.9	8,600.5	8,585.0	10.6	10.6	89.79	191.3	339.9	641.2	625.4	15.82	40.525		
8,700.0	8,684.9	8,700.5	8,685.0	10.7	10.7	89.79	191.3	339.9	641.2	625.3	15.93	40.257		
8,800.0	8,784.9	8,800.5	8,785.0	10.8	10.8	89.79	191.3	339.9	641.2	625.2	16.03	39.992		
8,900.0	8,884.9	8,900.5	8,885.0	11.0	10.9	89.79	191.3	339.9	641.2	625.1	16.14	39.729		
9,000.0	8,984.9	9,000.5	8,985.0	11.1	11.1	89.79	191.3	339.9	641.2	625.0	16.25	39.468		
9,100.0	9,084.9	9,100.5	9,085.0	11.2	11.2	89.79	191.3	339.9	641.2	624.9	16.35	39.210		
9,200.0	9,184.9	9,200.5	9,185.0	11.3	11.3	89.79	191.3	339.9	641.2	624.8	16.46	38.953		
9,300.0	9,284.9	9,300.5	9,285.0	11.4	11.4	89.79	191.3	339.9	641.2	624.7	16.57	38.699		
9,400.0	9,384.9	9,400.5	9,385.0	11.5	11.5	89.79	191.3	339.9	641.2	624.6	16.68	38.447		
9,500.0	9,484.9	9,500.5	9,485.0	11.7	11.6	89.79	191.3	339.9	641.2	624.5	16.79	38.197		
9,600.0	9,584.9	9,600.5	9,585.0	11.8	11.8	89.79	191.3	339.9	641.2	624.3	16.90	37.950		
9,700.0	9,684.9	9,700.5	9,685.0	11.9	11.9	89.79	191.3	339.9	641.2	624.2	17.01	37.704		
9,800.0	9,784.9	9,800.5	9,785.0	12.0	12.0	89.79	191.3	339.9	641.2	624.1	17.12	37.461		
9,900.0	9,884.9	9,900.5	9,885.0	12.1	12.1	89.79	191.3	339.9	641.2	624.0	17.23	37.220		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.0	9,984.9	10,000.5	9,985.0	12.3	12.2	89.79	191.3	339.9	641.2	623.9	17.34	36.982		
10,100.0	10,084.9	10,100.5	10,085.0	12.4	12.4	89.79	191.3	339.9	641.2	623.8	17.45	36.745		
10,200.0	10,184.9	10,200.5	10,185.0	12.5	12.5	89.79	191.3	339.9	641.2	623.7	17.56	36.511		
10,300.0	10,284.9	10,300.5	10,285.0	12.6	12.6	89.79	191.3	339.9	641.2	623.6	17.68	36.279		
10,400.0	10,384.9	10,400.5	10,385.0	12.7	12.7	89.79	191.3	339.9	641.2	623.5	17.79	36.049		
10,500.0	10,484.9	10,500.5	10,485.0	12.9	12.8	89.79	191.3	339.9	641.2	623.3	17.90	35.821		
10,600.0	10,584.9	10,600.5	10,585.0	13.0	13.0	89.79	191.3	339.9	641.2	623.2	18.01	35.595		
10,700.0	10,684.9	10,700.5	10,685.0	13.1	13.1	89.79	191.3	339.9	641.2	623.1	18.13	35.371		
10,800.0	10,784.9	10,800.5	10,785.0	13.2	13.2	89.79	191.3	339.9	641.2	623.0	18.24	35.150		
10,900.0	10,884.9	10,900.5	10,885.0	13.3	13.3	89.79	191.3	339.9	641.2	622.9	18.36	34.930		
11,000.0	10,984.9	11,000.5	10,985.0	13.5	13.4	89.79	191.3	339.9	641.2	622.8	18.47	34.713		
11,100.0	11,084.9	11,100.5	11,085.0	13.6	13.6	89.79	191.3	339.9	641.2	622.7	18.59	34.497		
11,200.0	11,184.9	11,200.5	11,185.0	13.7	13.7	89.79	191.3	339.9	641.2	622.5	18.70	34.284		
11,300.0	11,284.9	11,300.5	11,285.0	13.8	13.8	89.79	191.3	339.9	641.2	622.4	18.82	34.073		
11,400.0	11,384.9	11,400.5	11,385.0	13.9	13.9	89.79	191.3	339.9	641.2	622.3	18.94	33.864		
11,500.0	11,484.9	11,500.5	11,485.0	14.1	14.0	89.79	191.3	339.9	641.2	622.2	19.05	33.656		
11,600.0	11,584.9	11,600.5	11,585.0	14.2	14.2	89.79	191.3	339.9	641.2	622.1	19.17	33.451		
11,700.0	11,684.9	11,700.5	11,685.0	14.3	14.3	89.79	191.3	339.9	641.2	622.0	19.29	33.248		
11,800.0	11,784.9	11,800.5	11,785.0	14.4	14.4	89.79	191.3	339.9	641.2	621.8	19.40	33.047		
11,900.0	11,884.9	11,900.5	11,885.0	14.6	14.5	89.79	191.3	339.9	641.2	621.7	19.52	32.847		
11,902.0	11,886.9	11,902.4	11,887.0	14.6	14.5	89.79	191.3	339.9	641.2	621.7	19.52	32.844		
11,912.2	11,897.1	11,912.6	11,897.2	14.6	14.5	89.79	191.3	339.9	641.2	621.7	19.53	32.829		
11,950.0	11,934.9	11,950.3	11,934.9	14.7	14.6	-89.77	190.0	339.9	641.2	621.7	19.55	32.807		
12,000.0	11,984.6	12,000.0	11,984.2	14.7	14.8	-89.77	184.6	340.0	641.2	621.7	19.55	32.792		
12,009.8	11,994.3	12,009.8	11,993.9	14.7	14.8	-89.77	183.0	340.0	641.2	621.7	19.56	32.787		
12,050.0	12,033.6	12,049.9	12,033.1	14.7	15.0	-89.78	174.9	340.1	641.2	621.7	19.57	32.764		
12,100.0	12,081.6	12,099.7	12,080.9	14.7	15.3	-89.78	161.0	340.2	641.2	621.6	19.60	32.721		
12,150.0	12,128.2	12,149.4	12,127.3	14.7	15.5	-89.79	143.0	340.3	641.2	621.6	19.63	32.659		
12,200.0	12,173.0	12,199.2	12,172.0	14.8	15.8	-89.79	121.0	340.5	641.2	621.6	19.68	32.575		
12,250.0	12,215.7	12,249.1	12,214.6	14.8	16.0	-89.80	95.2	340.7	641.2	621.5	19.75	32.466		
12,300.0	12,256.0	12,298.9	12,254.8	14.8	16.2	-89.81	65.8	340.9	641.2	621.4	19.84	32.326		
12,350.0	12,293.6	12,348.7	12,292.3	14.9	16.4	-89.82	33.1	341.1	641.2	621.3	19.94	32.152		
12,400.0	12,328.1	12,398.5	12,326.9	14.9	16.5	-89.84	-2.8	341.4	641.2	621.2	20.07	31.942		
12,450.0	12,359.4	12,448.4	12,358.1	15.0	16.7	-89.85	-41.6	341.7	641.2	621.0	20.23	31.692		
12,500.0	12,387.1	12,498.2	12,386.0	15.0	16.8	-89.87	-83.0	342.0	641.2	620.8	20.42	31.403		
12,550.0	12,411.1	12,548.1	12,410.1	15.1	16.9	-89.88	-126.6	342.3	641.2	620.6	20.64	31.074		
12,600.0	12,431.2	12,598.0	12,430.3	15.2	17.0	-89.90	-172.2	342.7	641.2	620.3	20.88	30.709		
12,650.0	12,447.3	12,647.9	12,446.5	15.2	17.0	-89.92	-219.4	343.0	641.2	620.1	21.15	30.310		
12,700.0	12,459.1	12,697.9	12,458.5	15.3	17.1	-89.94	-267.8	343.4	641.2	619.8	21.46	29.885		
12,750.0	12,466.7	12,747.8	12,466.3	15.3	17.1	-89.96	-317.2	343.7	641.2	619.4	21.78	29.439		
12,800.0	12,469.9	12,797.8	12,469.8	15.3	17.1	-89.98	-367.0	344.1	641.2	619.1	22.13	28.979		
12,809.1	12,470.0	12,806.9	12,469.9	15.3	17.1	-89.98	-376.1	344.2	641.2	619.0	22.19	28.896		
12,900.0	12,470.5	12,897.8	12,470.4	15.4	17.2	-89.98	-467.0	344.9	641.2	618.3	22.89	28.012		
13,000.0	12,471.1	12,997.8	12,470.8	15.5	17.2	-89.97	-567.0	345.6	641.2	617.4	23.76	26.991		
13,100.0	12,471.6	13,097.8	12,471.3	15.6	17.3	-89.97	-667.0	346.4	641.2	616.5	24.70	25.959		
13,200.0	12,472.1	13,197.8	12,471.8	15.7	17.3	-89.96	-767.0	347.1	641.2	615.5	25.71	24.936		
13,300.0	12,472.6	13,297.8	12,472.3	15.9	17.4	-89.96	-867.0	347.9	641.2	614.4	26.79	23.936		
13,400.0	12,473.2	13,397.8	12,472.7	16.1	17.5	-89.95	-967.0	348.6	641.2	613.3	27.92	22.968		
13,500.0	12,473.7	13,497.8	12,473.2	16.4	17.6	-89.95	-1,067.0	349.4	641.2	612.1	29.09	22.040		
13,600.0	12,474.2	13,597.8	12,473.7	16.7	17.7	-89.94	-1,167.0	350.1	641.2	610.8	30.31	21.155		
13,700.0	12,474.8	13,697.8	12,474.1	17.1	17.8	-89.94	-1,267.0	350.8	641.1	609.6	31.56	20.314		
13,800.0	12,475.3	13,797.8	12,474.6	17.6	18.0	-89.93	-1,367.0	351.6	641.1	608.3	32.85	19.517		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,900.0	12,475.8	13,897.8	12,475.1	18.2	18.2	-89.93	-1,466.9	352.3	641.1	607.0	34.17	18.765		
14,000.0	12,476.3	13,997.8	12,475.5	18.8	18.5	-89.92	-1,566.9	353.1	641.1	605.6	35.51	18.055		
14,100.0	12,476.9	14,097.8	12,476.0	19.4	18.8	-89.92	-1,666.9	353.8	641.1	604.2	36.88	17.386		
14,200.0	12,477.4	14,197.8	12,476.5	20.1	19.2	-89.91	-1,766.9	354.6	641.1	602.9	38.26	16.756		
14,300.0	12,477.9	14,297.8	12,477.0	20.8	19.7	-89.91	-1,866.9	355.3	641.1	601.4	39.67	16.163		
14,400.0	12,478.5	14,397.8	12,477.4	21.6	20.2	-89.90	-1,966.9	356.1	641.1	600.0	41.09	15.603		
14,500.0	12,479.0	14,497.8	12,477.9	22.3	20.8	-89.90	-2,066.9	356.8	641.1	598.6	42.52	15.076		
14,600.0	12,479.5	14,597.8	12,478.4	23.1	21.4	-89.89	-2,166.9	357.6	641.1	597.1	43.97	14.579		
14,700.0	12,480.0	14,697.8	12,478.8	23.8	22.0	-89.89	-2,266.9	358.3	641.1	595.7	45.44	14.110		
14,800.0	12,480.6	14,797.8	12,479.3	24.6	22.6	-89.88	-2,366.9	359.1	641.1	594.2	46.91	13.667		
14,900.0	12,481.1	14,897.8	12,479.8	25.4	23.3	-89.87	-2,466.9	359.8	641.1	592.7	48.39	13.248		
15,000.0	12,481.6	14,997.8	12,480.3	26.2	24.0	-89.87	-2,566.9	360.6	641.1	591.2	49.88	12.851		
15,100.0	12,482.1	15,097.8	12,480.7	27.0	24.6	-89.86	-2,666.9	361.3	641.1	589.7	51.38	12.476		
15,200.0	12,482.7	15,197.8	12,481.2	27.8	25.3	-89.86	-2,766.9	362.1	641.1	588.2	52.89	12.120		
15,300.0	12,483.2	15,297.8	12,481.7	28.6	26.0	-89.85	-2,866.9	362.8	641.1	586.6	54.41	11.783		
15,400.0	12,483.7	15,397.8	12,482.1	29.4	26.7	-89.85	-2,966.9	363.6	641.0	585.1	55.93	11.462		
15,500.0	12,484.3	15,497.8	12,482.6	30.2	27.4	-89.84	-3,066.9	364.3	641.0	583.6	57.46	11.157		
15,600.0	12,484.8	15,597.8	12,483.1	31.0	28.1	-89.84	-3,166.9	365.1	641.0	582.0	58.99	10.867		
15,700.0	12,485.3	15,697.8	12,483.6	31.8	28.8	-89.83	-3,266.9	365.8	641.0	580.5	60.53	10.591		
15,800.0	12,485.8	15,797.8	12,484.0	32.6	29.5	-89.83	-3,366.9	366.6	641.0	579.0	62.07	10.328		
15,900.0	12,486.4	15,897.8	12,484.5	33.5	30.3	-89.82	-3,466.9	367.3	641.0	577.4	63.62	10.076		
16,000.0	12,486.9	15,997.8	12,485.0	34.3	31.0	-89.82	-3,566.9	368.1	641.0	575.8	65.17	9.836		
16,100.0	12,487.4	16,097.8	12,485.4	35.1	31.7	-89.81	-3,666.9	368.8	641.0	574.3	66.72	9.607		
16,200.0	12,488.0	16,197.8	12,485.9	35.9	32.4	-89.81	-3,766.9	369.6	641.0	572.7	68.28	9.388		
16,300.0	12,488.5	16,297.8	12,486.4	36.8	33.1	-89.80	-3,866.9	370.3	641.0	571.2	69.84	9.178		
16,400.0	12,489.0	16,397.8	12,486.9	37.6	33.9	-89.80	-3,966.9	371.0	641.0	569.6	71.41	8.977		
16,500.0	12,489.5	16,497.8	12,487.3	38.4	34.6	-89.79	-4,066.8	371.8	641.0	568.0	72.97	8.784		
16,600.0	12,490.1	16,597.8	12,487.8	39.3	35.3	-89.79	-4,166.8	372.5	641.0	566.4	74.54	8.599		
16,700.0	12,490.6	16,697.8	12,488.3	40.1	36.1	-89.78	-4,266.8	373.3	641.0	564.9	76.12	8.421		
16,800.0	12,491.1	16,797.8	12,488.7	40.9	36.8	-89.78	-4,366.8	374.0	641.0	563.3	77.69	8.250		
16,900.0	12,491.7	16,897.8	12,489.2	41.8	37.5	-89.77	-4,466.8	374.8	641.0	561.7	79.27	8.086		
17,000.0	12,492.2	16,997.8	12,489.7	42.6	38.3	-89.77	-4,566.8	375.5	641.0	560.1	80.85	7.928		
17,100.0	12,492.7	17,097.8	12,490.2	43.5	39.0	-89.76	-4,666.8	376.3	640.9	558.5	82.43	7.776		
17,200.0	12,493.2	17,197.8	12,490.6	44.3	39.8	-89.76	-4,766.8	377.0	640.9	556.9	84.01	7.629		
17,300.0	12,493.8	17,297.8	12,491.1	45.1	40.5	-89.75	-4,866.8	377.8	640.9	555.3	85.60	7.488		
17,400.0	12,494.3	17,397.8	12,491.6	46.0	41.2	-89.75	-4,966.8	378.5	640.9	553.7	87.18	7.352		
17,500.0	12,494.8	17,497.8	12,492.0	46.8	42.0	-89.74	-5,066.8	379.3	640.9	552.2	88.77	7.220		
17,600.0	12,495.3	17,597.8	12,492.5	47.7	42.7	-89.74	-5,166.8	380.0	640.9	550.6	90.36	7.093		
17,700.0	12,495.9	17,697.8	12,493.0	48.5	43.5	-89.73	-5,266.8	380.8	640.9	549.0	91.95	6.970		
17,800.0	12,496.4	17,797.8	12,493.5	49.4	44.2	-89.73	-5,366.8	381.5	640.9	547.4	93.54	6.852		
17,900.0	12,496.9	17,897.8	12,493.9	50.2	45.0	-89.72	-5,466.8	382.3	640.9	545.8	95.14	6.737		
18,000.0	12,497.5	17,997.8	12,494.4	51.0	45.7	-89.72	-5,566.8	383.0	640.9	544.2	96.73	6.626		
18,100.0	12,498.0	18,097.8	12,494.9	51.9	46.5	-89.71	-5,666.8	383.8	640.9	542.6	98.33	6.518		
18,200.0	12,498.5	18,197.8	12,495.3	52.7	47.2	-89.71	-5,766.8	384.5	640.9	541.0	99.92	6.414		
18,300.0	12,499.0	18,297.8	12,495.8	53.6	47.9	-89.70	-5,866.8	385.3	640.9	539.4	101.52	6.313		
18,400.0	12,499.6	18,397.8	12,496.3	54.4	48.7	-89.70	-5,966.8	386.0	640.9	537.8	103.12	6.215		
18,500.0	12,500.1	18,497.8	12,496.8	55.3	49.4	-89.69	-6,066.8	386.8	640.9	536.1	104.72	6.120		
18,600.0	12,500.6	18,597.8	12,497.2	56.1	50.2	-89.69	-6,166.8	387.5	640.9	534.5	106.32	6.028		
18,700.0	12,501.2	18,697.8	12,497.7	57.0	50.9	-89.68	-6,266.8	388.3	640.9	532.9	107.92	5.938		
18,800.0	12,501.7	18,797.8	12,498.2	57.8	51.7	-89.68	-6,366.8	389.0	640.8	531.3	109.52	5.851		
18,900.0	12,502.2	18,897.8	12,498.6	58.7	52.5	-89.67	-6,466.8	389.8	640.8	529.7	111.13	5.767		
19,000.0	12,502.7	18,997.8	12,499.1	59.5	53.2	-89.67	-6,566.7	390.5	640.8	528.1	112.73	5.685		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.0	12,503.3	19,097.8	12,499.6	60.4	54.0	-89.66	-89.66	-6,666.7	391.3	640.8	526.5	114.34	5.605	
19,200.0	12,503.8	19,197.8	12,500.1	61.2	54.7	-89.66	-89.66	-6,766.7	392.0	640.8	524.9	115.94	5.527	
19,300.0	12,504.3	19,297.8	12,500.5	62.1	55.5	-89.65	-89.65	-6,866.7	392.7	640.8	523.3	117.55	5.452	
19,400.0	12,504.9	19,397.8	12,501.0	63.0	56.2	-89.65	-89.65	-6,966.7	393.5	640.8	521.7	119.15	5.378	
19,500.0	12,505.4	19,497.8	12,501.5	63.8	57.0	-89.64	-89.64	-7,066.7	394.2	640.8	520.0	120.76	5.306	
19,600.0	12,505.9	19,597.8	12,501.9	64.7	57.7	-89.64	-89.64	-7,166.7	395.0	640.8	518.4	122.37	5.237	
19,700.0	12,506.4	19,697.8	12,502.4	65.5	58.5	-89.63	-89.63	-7,266.7	395.7	640.8	516.8	123.98	5.169	
19,800.0	12,507.0	19,797.8	12,502.9	66.4	59.2	-89.63	-89.63	-7,366.7	396.5	640.8	515.2	125.59	5.102	
19,900.0	12,507.5	19,897.8	12,503.4	67.2	60.0	-89.62	-89.62	-7,466.7	397.2	640.8	513.6	127.20	5.038	
20,000.0	12,508.0	19,997.8	12,503.8	68.1	60.7	-89.62	-89.62	-7,566.7	398.0	640.8	512.0	128.81	4.975	
20,100.0	12,508.5	20,097.8	12,504.3	68.9	61.5	-89.61	-89.61	-7,666.7	398.7	640.8	510.4	130.42	4.913	
20,200.0	12,509.1	20,197.8	12,504.8	69.8	62.3	-89.61	-89.61	-7,766.7	399.5	640.8	508.7	132.03	4.853	
20,300.0	12,509.6	20,297.8	12,505.2	70.6	63.0	-89.60	-89.60	-7,866.7	400.2	640.8	507.1	133.64	4.795	
20,400.0	12,510.1	20,397.8	12,505.7	71.5	63.8	-89.60	-89.60	-7,966.7	401.0	640.8	505.5	135.25	4.738	
20,500.0	12,510.7	20,497.8	12,506.2	72.4	64.5	-89.59	-89.59	-8,066.7	401.7	640.8	503.9	136.86	4.682	
20,600.0	12,511.2	20,597.8	12,506.7	73.2	65.3	-89.59	-89.59	-8,166.7	402.5	640.7	502.3	138.48	4.627	
20,700.0	12,511.7	20,697.8	12,507.1	74.1	66.0	-89.58	-89.58	-8,266.7	403.2	640.7	500.6	140.09	4.574	
20,800.0	12,512.2	20,797.8	12,507.6	74.9	66.8	-89.58	-89.58	-8,366.7	404.0	640.7	499.0	141.70	4.522	
20,900.0	12,512.8	20,897.8	12,508.1	75.8	67.6	-89.57	-89.57	-8,466.7	404.7	640.7	497.4	143.32	4.471	
21,000.0	12,513.3	20,997.8	12,508.5	76.6	68.3	-89.56	-89.56	-8,566.7	405.5	640.7	495.8	144.93	4.421	
21,100.0	12,513.8	21,097.8	12,509.0	77.5	69.1	-89.56	-89.56	-8,666.7	406.2	640.7	494.2	146.55	4.372	
21,200.0	12,514.4	21,197.8	12,509.5	78.3	69.8	-89.55	-89.55	-8,766.7	407.0	640.7	492.6	148.16	4.324	
21,300.0	12,514.9	21,297.8	12,510.0	79.2	70.6	-89.55	-89.55	-8,866.7	407.7	640.7	490.9	149.78	4.278	
21,400.0	12,515.4	21,397.8	12,510.4	80.1	71.3	-89.54	-89.54	-8,966.7	408.5	640.7	489.3	151.39	4.232	
21,500.0	12,515.9	21,497.8	12,510.9	80.9	72.1	-89.54	-89.54	-9,066.7	409.2	640.7	487.7	153.01	4.187	
21,600.0	12,516.5	21,597.8	12,511.4	81.8	72.9	-89.53	-89.53	-9,166.6	410.0	640.7	486.1	154.62	4.144	
21,700.0	12,517.0	21,697.8	12,511.8	82.6	73.6	-89.53	-89.53	-9,266.6	410.7	640.7	484.4	156.24	4.101	
21,800.0	12,517.5	21,797.8	12,512.3	83.5	74.4	-89.52	-89.52	-9,366.6	411.5	640.7	482.8	157.86	4.059	
21,900.0	12,518.1	21,897.8	12,512.8	84.3	75.1	-89.52	-89.52	-9,466.6	412.2	640.7	481.2	159.47	4.017	
22,000.0	12,518.6	21,997.8	12,513.2	85.2	75.9	-89.51	-89.51	-9,566.6	412.9	640.7	479.6	161.09	3.977	
22,100.0	12,519.1	22,097.8	12,513.7	86.1	76.7	-89.51	-89.51	-9,666.6	413.7	640.7	478.0	162.71	3.938	
22,200.0	12,519.6	22,197.8	12,514.2	86.9	77.4	-89.50	-89.50	-9,766.6	414.4	640.7	476.3	164.32	3.899	
22,300.0	12,520.2	22,297.8	12,514.7	87.8	78.2	-89.50	-89.50	-9,866.6	415.2	640.6	474.7	165.94	3.861	
22,400.0	12,520.7	22,397.8	12,515.1	88.6	78.9	-89.49	-89.49	-9,966.6	415.9	640.6	473.1	167.56	3.823	
22,500.0	12,521.2	22,497.8	12,515.6	89.5	79.7	-89.49	-89.49	-10,066.6	416.7	640.6	471.5	169.18	3.787	
22,600.0	12,521.8	22,597.8	12,516.1	90.4	80.5	-89.48	-89.48	-10,166.6	417.4	640.6	469.8	170.80	3.751	
22,700.0	12,522.3	22,697.8	12,516.5	91.2	81.2	-89.48	-89.48	-10,266.6	418.2	640.6	468.2	172.42	3.716	
22,800.0	12,522.8	22,797.8	12,517.0	92.1	82.0	-89.47	-89.47	-10,366.6	418.9	640.6	466.6	174.04	3.681	
22,900.0	12,523.3	22,897.8	12,517.5	92.9	82.7	-89.47	-89.47	-10,466.6	419.7	640.6	465.0	175.65	3.647	
23,000.0	12,523.9	22,997.8	12,518.0	93.8	83.5	-89.46	-89.46	-10,566.6	420.4	640.6	463.3	177.27	3.614	
23,100.0	12,524.4	23,097.8	12,518.4	94.6	84.3	-89.46	-89.46	-10,666.6	421.2	640.6	461.7	178.89	3.581	
23,200.0	12,524.9	23,197.8	12,518.9	95.5	85.0	-89.45	-89.45	-10,766.6	421.9	640.6	460.1	180.51	3.549	
23,300.0	12,525.4	23,297.8	12,519.4	96.4	85.8	-89.45	-89.45	-10,866.6	422.7	640.6	458.5	182.13	3.517	
23,400.0	12,526.0	23,397.8	12,519.8	97.2	86.5	-89.44	-89.44	-10,966.6	423.4	640.6	456.8	183.75	3.486	
23,500.0	12,526.5	23,497.8	12,520.3	98.1	87.3	-89.44	-89.44	-11,066.6	424.2	640.6	455.2	185.37	3.456	
23,600.0	12,527.0	23,597.8	12,520.8	98.9	88.1	-89.43	-89.43	-11,166.6	424.9	640.6	453.6	186.99	3.426	
23,700.0	12,527.6	23,697.8	12,521.3	99.8	88.8	-89.43	-89.43	-11,266.6	425.7	640.6	452.0	188.61	3.396	
23,800.0	12,528.1	23,797.8	12,521.7	100.7	89.6	-89.42	-89.42	-11,366.6	426.4	640.6	450.3	190.23	3.367	
23,900.0	12,528.6	23,897.8	12,522.2	101.5	90.3	-89.42	-89.42	-11,466.6	427.2	640.6	448.7	191.86	3.339	
24,000.0	12,529.1	23,997.8	12,522.7	102.4	91.1	-89.41	-89.41	-11,566.6	427.9	640.6	447.1	193.48	3.311	
24,100.0	12,529.7	24,097.8	12,523.1	103.2	91.9	-89.41	-89.41	-11,666.5	428.7	640.5	445.5	195.10	3.283	
24,200.0	12,530.2	24,197.8	12,523.6	104.1	92.6	-89.40	-89.40	-11,766.5	429.4	640.5	443.8	196.72	3.256	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #602H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11912-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor	
24,300.0	12,530.7	24,297.8	12,524.1	105.0	93.4	-89.40	-11,866.5	430.2	640.5	442.2	198.34	3.229		
24,400.0	12,531.3	24,397.8	12,524.6	105.8	94.1	-89.39	-11,966.5	430.9	640.5	440.6	199.96	3.203		
24,500.0	12,531.8	24,497.8	12,525.0	106.7	94.9	-89.39	-12,066.5	431.7	640.5	438.9	201.58	3.177		
24,600.0	12,532.3	24,597.8	12,525.5	107.5	95.7	-89.38	-12,166.5	432.4	640.5	437.3	203.21	3.152		
24,700.0	12,532.8	24,697.8	12,526.0	108.4	96.4	-89.38	-12,266.5	433.2	640.5	435.7	204.83	3.127		
24,800.0	12,533.4	24,797.8	12,526.4	109.3	97.2	-89.37	-12,366.5	433.9	640.5	434.1	206.45	3.103		
24,900.0	12,533.9	24,897.8	12,526.9	110.1	98.0	-89.37	-12,466.5	434.6	640.5	432.4	208.07	3.078		
25,000.0	12,534.4	24,997.8	12,527.4	111.0	98.7	-89.36	-12,566.5	435.4	640.5	430.8	209.69	3.054		
25,100.0	12,535.0	25,097.8	12,527.9	111.8	99.5	-89.36	-12,666.5	436.1	640.5	429.2	211.32	3.031		
25,200.0	12,535.5	25,197.8	12,528.3	112.7	100.2	-89.35	-12,766.5	436.9	640.5	427.6	212.94	3.008		
25,300.0	12,536.0	25,297.8	12,528.8	113.6	101.0	-89.35	-12,866.5	437.6	640.5	425.9	214.56	2.985		
25,400.0	12,536.5	25,397.8	12,529.3	114.4	101.8	-89.34	-12,966.5	438.4	640.5	424.3	216.18	2.963		
25,500.0	12,537.1	25,497.8	12,529.7	115.3	102.5	-89.34	-13,066.5	439.1	640.5	422.7	217.81	2.941		
25,600.0	12,537.6	25,597.8	12,530.2	116.1	103.3	-89.33	-13,166.5	439.9	640.5	421.0	219.43	2.919		
25,700.0	12,538.1	25,697.8	12,530.7	117.0	104.1	-89.33	-13,266.5	440.6	640.5	419.4	221.05	2.897		
25,800.0	12,538.6	25,797.8	12,531.2	117.9	104.8	-89.32	-13,366.5	441.4	640.5	417.8	222.68	2.876		
25,900.0	12,539.2	25,897.8	12,531.6	118.7	105.6	-89.32	-13,466.5	442.1	640.5	416.2	224.30	2.855		
26,000.0	12,539.7	25,997.8	12,532.1	119.6	106.3	-89.31	-13,566.5	442.9	640.4	414.5	225.92	2.835		
26,100.0	12,540.2	26,097.8	12,532.6	120.4	107.1	-89.31	-13,666.5	443.6	640.4	412.9	227.55	2.815		
26,200.0	12,540.8	26,197.8	12,533.0	121.3	107.9	-89.30	-13,766.5	444.4	640.4	411.3	229.17	2.795		
26,300.0	12,541.3	26,297.8	12,533.5	122.2	108.6	-89.30	-13,866.5	445.1	640.4	409.6	230.79	2.775		
26,400.0	12,541.8	26,397.8	12,534.0	123.0	109.4	-89.29	-13,966.5	445.9	640.4	408.0	232.42	2.756		
26,500.0	12,542.3	26,497.8	12,534.5	123.9	110.2	-89.29	-14,066.5	446.6	640.4	406.4	234.04	2.736		
26,600.0	12,542.9	26,597.8	12,534.9	124.8	110.9	-89.28	-14,166.5	447.4	640.4	404.8	235.66	2.717		
26,631.2	12,543.0	26,629.0	12,535.1	125.0	111.2	-89.28	-14,197.7	447.6	640.4	404.2	236.17	2.712 SF		
26,700.0	12,543.4	26,629.0	12,535.1	125.6	111.2	-89.28	-14,197.7	447.6	644.1	408.5	235.57	2.734		
26,800.0	12,543.9	26,629.0	12,535.1	126.5	111.2	-89.28	-14,197.7	447.6	662.3	431.7	230.60	2.872		
26,900.0	12,544.5	26,629.0	12,535.1	127.3	111.2	-89.28	-14,197.7	447.6	694.5	472.7	221.84	3.131		
27,000.0	12,545.0	26,629.0	12,535.1	128.2	111.2	-89.28	-14,197.7	447.6	739.0	528.2	210.79	3.506		
27,100.0	12,545.5	26,629.0	12,535.1	129.1	111.2	-89.28	-14,197.7	447.6	793.6	594.8	198.86	3.991		
27,200.0	12,546.0	26,629.0	12,535.1	129.9	111.2	-89.28	-14,197.7	447.6	856.5	669.4	187.04	4.579		
27,300.0	12,546.6	26,629.0	12,535.1	130.8	111.2	-89.28	-14,197.7	447.6	925.9	750.0	175.95	5.262		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-90.19	-0.1	-29.9	29.9				
100.0	100.0	99.8	99.8	3.0	3.0	3.0	-90.19	-0.1	-29.9	29.9	23.9	6.00	4.983	
200.0	200.0	199.8	199.8	3.0	3.0	3.0	-90.19	-0.1	-29.9	29.9	23.9	6.00	4.981	
300.0	300.0	299.8	299.8	3.0	3.0	3.0	-90.19	-0.1	-29.9	29.9	23.9	6.01	4.976	
400.0	400.0	399.8	399.8	3.0	3.0	3.0	-90.19	-0.1	-29.9	29.9	23.9	6.02	4.968	
500.0	500.0	499.8	499.8	3.1	3.1	3.1	-90.19	-0.1	-29.9	29.9	23.9	6.03	4.958	
600.0	600.0	599.8	599.8	3.1	3.1	3.1	-90.19	-0.1	-29.9	29.9	23.9	6.05	4.945	
700.0	700.0	699.8	699.8	3.1	3.1	3.1	-90.19	-0.1	-29.9	29.9	23.8	6.07	4.930	
800.0	800.0	799.8	799.8	3.2	3.2	3.2	-90.19	-0.1	-29.9	29.9	23.8	6.09	4.912	
900.0	900.0	899.8	899.8	3.2	3.2	3.2	-90.19	-0.1	-29.9	29.9	23.8	6.11	4.892	
1,000.0	1,000.0	999.8	999.8	3.2	3.2	3.2	-90.19	-0.1	-29.9	29.9	23.8	6.14	4.869	
1,100.0	1,100.0	1,099.8	1,099.8	3.3	3.3	3.3	-90.19	-0.1	-29.9	29.9	23.7	6.17	4.845	
1,200.0	1,200.0	1,199.8	1,199.8	3.4	3.4	3.4	-90.19	-0.1	-29.9	29.9	23.7	6.21	4.818	
1,300.0	1,300.0	1,299.8	1,299.8	3.4	3.4	3.4	-90.19	-0.1	-29.9	29.9	23.7	6.24	4.790	
1,400.0	1,400.0	1,399.8	1,399.8	3.5	3.5	3.5	-90.19	-0.1	-29.9	29.9	23.6	6.28	4.759	
1,500.0	1,500.0	1,499.8	1,499.8	3.5	3.5	3.5	-90.19	-0.1	-29.9	29.9	23.6	6.33	4.727	
1,600.0	1,600.0	1,599.8	1,599.8	3.6	3.6	3.6	-90.19	-0.1	-29.9	29.9	23.5	6.37	4.693	
1,700.0	1,700.0	1,699.8	1,699.8	3.7	3.7	3.7	-90.19	-0.1	-29.9	29.9	23.5	6.42	4.658	
1,800.0	1,800.0	1,799.8	1,799.8	3.8	3.8	3.8	-90.19	-0.1	-29.9	29.9	23.4	6.47	4.621	
1,900.0	1,900.0	1,899.8	1,899.8	3.9	3.9	3.9	-90.19	-0.1	-29.9	29.9	23.4	6.52	4.583	
2,000.0	2,000.0	1,999.8	1,999.8	3.9	3.9	3.9	-90.19	-0.1	-29.9	29.9	23.3	6.58	4.544	
2,100.0	2,100.0	2,099.8	2,099.8	4.0	4.0	4.0	-90.19	-0.1	-29.9	29.9	23.3	6.64	4.504	
2,200.0	2,200.0	2,199.8	2,199.8	4.1	4.1	4.1	-90.19	-0.1	-29.9	29.9	23.2	6.70	4.463	
2,300.0	2,300.0	2,299.8	2,299.8	4.2	4.2	4.2	-90.19	-0.1	-29.9	29.9	23.1	6.76	4.421	
2,400.0	2,400.0	2,399.8	2,399.8	4.3	4.3	4.3	-90.19	-0.1	-29.9	29.9	23.1	6.83	4.379	
2,500.0	2,500.0	2,499.8	2,499.8	4.4	4.4	4.4	-90.19	-0.1	-29.9	29.9	23.0	6.90	4.336 CC, ES	
2,600.0	2,600.0	2,598.8	2,598.8	4.5	4.5	4.5	-33.37	0.2	-31.6	30.1	23.1	6.96	4.324	
2,700.0	2,699.8	2,697.8	2,697.6	4.5	4.5	4.5	-36.50	1.3	-36.6	30.8	23.8	7.04	4.382	
2,750.0	2,749.7	2,747.2	2,746.9	4.6	4.5	4.5	-38.74	2.1	-40.3	31.4	24.3	7.08	4.441	
2,800.0	2,799.5	2,796.9	2,796.3	4.6	4.6	4.6	-40.92	3.0	-44.9	32.5	25.4	7.12	4.565	
2,900.0	2,899.1	2,896.8	2,895.8	4.7	4.6	4.6	-44.63	5.0	-54.4	35.1	27.9	7.21	4.868	
3,000.0	2,998.7	2,996.7	2,995.3	4.8	4.7	4.7	-47.81	7.0	-63.9	37.8	30.5	7.30	5.178	
3,100.0	3,098.4	3,096.7	3,094.7	4.8	4.7	4.7	-50.57	9.0	-73.4	40.6	33.2	7.40	5.493	
3,200.0	3,198.0	3,196.6	3,194.2	4.9	4.8	4.8	-52.96	11.0	-83.0	43.6	36.1	7.50	5.810	
3,300.0	3,297.6	3,296.6	3,293.7	5.0	4.8	4.8	-55.04	13.0	-92.5	46.5	38.9	7.59	6.127	
3,400.0	3,397.2	3,396.5	3,393.1	5.1	4.9	4.9	-56.88	15.0	-102.0	49.6	41.9	7.69	6.443	
3,500.0	3,496.8	3,496.5	3,492.6	5.2	5.0	5.0	-58.50	17.0	-111.5	52.6	44.8	7.79	6.756	
3,600.0	3,596.4	3,596.4	3,592.1	5.2	5.0	5.0	-59.94	19.0	-121.0	55.7	47.9	7.89	7.065	
3,700.0	3,696.1	3,696.3	3,691.5	5.3	5.1	5.1	-61.23	21.0	-130.6	58.9	50.9	7.99	7.370	
3,800.0	3,795.7	3,796.3	3,791.0	5.4	5.2	5.2	-62.39	23.0	-140.1	62.1	54.0	8.09	7.669	
3,900.0	3,895.3	3,896.2	3,890.5	5.5	5.3	5.3	-63.43	25.0	-149.6	65.2	57.0	8.19	7.962	
4,000.0	3,994.9	3,996.2	3,990.0	5.6	5.3	5.3	-64.38	27.0	-159.1	68.5	60.2	8.30	8.249	
4,100.0	4,094.5	4,096.1	4,089.4	5.7	5.4	5.4	-65.24	29.0	-168.6	71.7	63.3	8.41	8.528	
4,200.0	4,194.2	4,196.1	4,188.9	5.8	5.5	5.5	-66.03	31.0	-178.1	74.9	66.4	8.51	8.800	
4,300.0	4,293.8	4,296.0	4,288.4	5.9	5.6	5.6	-66.75	33.0	-187.7	78.2	69.6	8.62	9.065	
4,400.0	4,393.4	4,395.9	4,387.8	6.0	5.7	5.7	-67.42	35.0	-197.2	81.4	72.7	8.74	9.321	
4,500.0	4,493.0	4,495.9	4,487.3	6.1	5.8	5.8	-68.03	37.0	-206.7	84.7	75.9	8.85	9.570	
4,600.0	4,592.6	4,595.8	4,586.8	6.2	5.9	5.9	-68.60	39.0	-216.2	88.0	79.0	8.97	9.811	
4,700.0	4,692.3	4,695.8	4,686.2	6.3	6.0	6.0	-69.12	40.9	-225.7	91.3	82.2	9.09	10.044	
4,800.0	4,791.9	4,795.7	4,785.7	6.4	6.1	6.1	-69.61	42.9	-235.3	94.6	85.4	9.21	10.268	
4,900.0	4,891.5	4,895.6	4,885.2	6.5	6.2	6.2	-70.07	44.9	-244.8	97.9	88.6	9.34	10.485	
5,000.0	4,991.1	4,995.6	4,984.6	6.6	6.2	6.2	-70.49	46.9	-254.3	101.2	91.8	9.47	10.694	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,090.7	5,095.5	5,084.1	6.7	6.3	-70.89	48.9	-263.8	104.6	95.0	9.60	10.895		
5,200.0	5,190.4	5,195.5	5,183.6	6.8	6.4	-71.27	50.9	-273.3	107.9	98.1	9.73	11.088		
5,300.0	5,290.0	5,295.4	5,283.0	6.9	6.5	-71.62	52.9	-282.9	111.2	101.3	9.86	11.274		
5,400.0	5,389.6	5,395.4	5,382.5	7.0	6.6	-71.95	54.9	-292.4	114.5	104.5	10.00	11.452		
5,500.0	5,489.2	5,495.3	5,482.0	7.1	6.8	-72.27	56.9	-301.9	117.9	107.7	10.14	11.623		
5,600.0	5,588.8	5,595.2	5,581.4	7.2	6.9	-72.56	58.9	-311.4	121.2	110.9	10.28	11.786		
5,700.0	5,688.5	5,695.2	5,680.9	7.4	7.0	-72.84	60.9	-320.9	124.6	114.1	10.43	11.943		
5,800.0	5,788.1	5,795.1	5,780.4	7.5	7.1	-73.11	62.9	-330.4	127.9	117.3	10.58	12.093		
5,900.0	5,887.7	5,895.1	5,879.8	7.6	7.2	-73.36	64.9	-340.0	131.2	120.5	10.73	12.236		
6,000.0	5,987.3	5,995.0	5,979.3	7.7	7.3	-73.60	66.9	-349.5	134.6	123.7	10.88	12.373		
6,100.0	6,086.9	6,095.0	6,078.8	7.8	7.4	-73.83	68.9	-359.0	138.0	126.9	11.03	12.503		
6,200.0	6,186.6	6,194.9	6,178.2	7.9	7.5	-74.05	70.9	-368.5	141.3	130.1	11.19	12.627		
6,300.0	6,286.2	6,294.8	6,277.7	8.0	7.6	-74.25	72.9	-378.0	144.7	133.3	11.35	12.746		
6,400.0	6,385.8	6,394.8	6,377.2	8.1	7.7	-74.45	74.9	-387.6	148.0	136.5	11.51	12.859		
6,455.6	6,441.2	6,450.4	6,432.5	8.2	7.8	-74.56	76.0	-392.9	149.9	138.3	11.60	12.919		
6,500.0	6,485.4	6,494.7	6,476.7	8.3	7.8	-74.59	76.9	-397.1	151.4	139.8	11.67	12.972		
6,600.0	6,585.2	6,594.6	6,576.1	8.4	7.9	-74.22	78.9	-406.6	155.2	143.4	11.83	13.126		
6,700.0	6,685.0	6,694.5	6,675.5	8.5	8.0	-73.28	80.9	-416.1	159.5	147.6	11.96	13.335		
6,800.0	6,785.0	6,794.3	6,774.8	8.6	8.2	-71.81	82.8	-425.6	164.4	152.3	12.10	13.592		
6,900.0	6,884.9	6,894.0	6,874.0	8.7	8.3	-69.88	84.8	-435.1	170.0	157.8	12.24	13.886		
6,955.6	6,940.6	6,949.4	6,929.1	8.8	8.3	-126.54	85.9	-440.4	173.5	161.1	12.33	14.064		
7,000.0	6,984.9	6,993.5	6,973.1	8.8	8.4	-125.49	86.8	-444.6	176.4	164.0	12.41	14.211		
7,100.0	7,084.9	7,093.1	7,072.1	8.9	8.5	-123.26	88.8	-454.1	183.1	170.5	12.60	14.538		
7,200.0	7,184.9	7,192.6	7,171.2	9.0	8.6	-121.19	90.8	-463.5	190.1	177.3	12.79	14.861		
7,300.0	7,284.9	7,292.1	7,270.2	9.1	8.7	-119.26	92.8	-473.0	197.4	184.4	13.00	15.181		
7,400.0	7,384.9	7,391.6	7,369.3	9.3	8.8	-117.48	94.8	-482.5	204.8	191.6	13.22	15.498		
7,500.0	7,484.9	7,491.2	7,468.4	9.4	9.0	-115.82	96.8	-492.0	212.5	199.0	13.44	15.812		
7,600.0	7,584.9	7,590.7	7,567.4	9.5	9.1	-114.27	98.7	-501.5	220.3	206.6	13.66	16.123		
7,700.0	7,684.9	7,690.2	7,666.5	9.6	9.2	-112.83	100.7	-510.9	228.2	214.3	13.89	16.431		
7,800.0	7,784.9	7,789.7	7,765.5	9.7	9.3	-111.49	102.7	-520.4	236.3	222.2	14.12	16.736		
7,900.0	7,884.9	7,889.3	7,864.6	9.8	9.4	-110.24	104.7	-529.9	244.5	230.1	14.35	17.039		
8,000.0	7,984.9	7,988.8	7,963.6	9.9	9.6	-109.07	106.7	-539.4	252.8	238.2	14.58	17.339		
8,100.0	8,084.9	8,088.3	8,062.7	10.0	9.7	-107.98	108.7	-548.9	261.2	246.4	14.81	17.636		
8,200.0	8,184.9	8,187.8	8,161.7	10.2	9.8	-106.95	110.7	-558.3	269.7	254.6	15.04	17.931		
8,300.0	8,284.9	8,287.4	8,260.8	10.3	9.9	-105.99	112.6	-567.8	278.3	263.0	15.27	18.222		
8,400.0	8,384.9	8,386.9	8,359.8	10.4	10.0	-105.08	114.6	-577.3	286.9	271.4	15.50	18.510		
8,500.0	8,484.9	8,486.4	8,458.9	10.5	10.1	-104.23	116.6	-586.8	295.6	279.9	15.73	18.794		
8,600.0	8,584.9	8,585.9	8,557.9	10.6	10.3	-103.42	118.6	-596.2	304.4	288.5	15.96	19.076		
8,700.0	8,684.9	8,685.5	8,657.0	10.7	10.4	-102.66	120.6	-605.7	313.2	297.1	16.19	19.354		
8,800.0	8,784.9	8,785.0	8,756.0	10.8	10.5	-101.95	122.6	-615.2	322.1	305.7	16.41	19.628		
8,900.0	8,884.9	8,884.5	8,855.1	11.0	10.6	-101.27	124.6	-624.7	331.1	314.4	16.64	19.899		
9,000.0	8,984.9	8,984.0	8,954.1	11.1	10.8	-100.63	126.6	-634.2	340.0	323.2	16.86	20.167		
9,100.0	9,084.9	9,083.6	9,053.2	11.2	10.9	-100.02	128.5	-643.6	349.1	332.0	17.09	20.430		
9,200.0	9,184.9	9,183.1	9,152.3	11.3	11.0	-99.44	130.5	-653.1	358.1	340.8	17.31	20.691		
9,300.0	9,284.9	9,282.6	9,251.3	11.4	11.1	-98.89	132.5	-662.6	367.2	349.7	17.53	20.947		
9,400.0	9,384.9	9,382.1	9,350.4	11.5	11.2	-98.36	134.5	-672.1	376.3	358.6	17.75	21.200		
9,500.0	9,484.9	9,481.7	9,449.4	11.7	11.4	-97.86	136.5	-681.6	385.5	367.5	17.97	21.450		
9,600.0	9,584.9	9,581.2	9,548.5	11.8	11.5	-97.39	138.5	-691.0	394.7	376.5	18.19	21.695		
9,700.0	9,684.9	9,680.7	9,647.5	11.9	11.6	-96.93	140.5	-700.5	403.9	385.5	18.41	21.937		
9,800.0	9,784.9	9,780.2	9,746.6	12.0	11.7	-96.50	142.5	-710.0	413.1	394.5	18.63	22.176		
9,900.0	9,884.9	9,879.8	9,845.6	12.1	11.9	-96.08	144.4	-719.5	422.4	403.5	18.85	22.411		
10,000.0	9,984.9	9,979.3	9,944.7	12.3	12.0	-95.69	146.4	-729.0	431.6	412.6	19.06	22.642		

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

ConocoPhillips

Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	10,084.9	10,078.8	10,043.7	12.4	12.1	-95.30	148.4	-738.4	440.9	421.6	19.28	22.870		
10,200.0	10,184.9	10,178.3	10,142.8	12.5	12.2	-94.94	150.4	-747.9	450.2	430.7	19.50	23.094		
10,300.0	10,284.9	10,277.9	10,241.8	12.6	12.4	-94.59	152.4	-757.4	459.6	439.9	19.71	23.315		
10,400.0	10,384.9	10,377.4	10,340.9	12.7	12.5	-94.25	154.4	-766.9	468.9	449.0	19.93	23.533		
10,500.0	10,484.9	10,476.9	10,439.9	12.9	12.6	-93.93	156.4	-776.3	478.3	458.1	20.14	23.747		
10,600.0	10,584.9	10,576.4	10,539.0	13.0	12.7	-93.62	158.3	-785.8	487.6	467.3	20.35	23.958		
10,700.0	10,684.9	10,676.0	10,638.0	13.1	12.9	-93.32	160.3	-795.3	497.0	476.5	20.57	24.165		
10,800.0	10,784.9	10,775.5	10,737.1	13.2	13.0	-93.03	162.3	-804.8	506.4	485.7	20.78	24.369		
10,900.0	10,884.9	10,875.0	10,836.2	13.3	13.1	-92.76	164.3	-814.3	515.9	494.9	20.99	24.571		
11,000.0	10,984.9	10,974.5	10,935.2	13.5	13.2	-92.49	166.3	-823.7	525.3	504.1	21.21	24.769		
11,100.0	11,084.9	11,074.1	11,034.3	13.6	13.4	-92.23	168.3	-833.2	534.7	513.3	21.42	24.964		
11,200.0	11,184.9	11,173.6	11,133.3	13.7	13.5	-91.98	170.3	-842.7	544.2	522.5	21.63	25.156		
11,300.0	11,284.9	11,273.1	11,232.4	13.8	13.6	-91.74	172.3	-852.2	553.6	531.8	21.84	25.344		
11,400.0	11,384.9	11,372.6	11,331.4	13.9	13.8	-91.51	174.2	-861.7	563.1	541.0	22.06	25.530		
11,500.0	11,484.9	11,472.2	11,430.5	14.1	13.9	-91.28	176.2	-871.1	572.6	550.3	22.27	25.713		
11,600.0	11,584.9	11,571.7	11,529.5	14.2	14.0	-91.07	178.2	-880.6	582.0	559.6	22.48	25.894		
11,700.0	11,684.9	11,671.2	11,628.6	14.3	14.1	-90.86	180.2	-890.1	591.5	568.8	22.69	26.071		
11,800.0	11,784.9	11,770.7	11,727.6	14.4	14.3	-90.65	182.2	-899.6	601.0	578.1	22.90	26.246		
11,900.0	11,884.9	11,870.3	11,826.7	14.6	14.4	-90.45	184.2	-909.1	610.5	587.4	23.11	26.418		
11,912.2	11,897.1	11,882.4	11,838.7	14.6	14.4	-90.43	184.4	-910.2	611.7	588.6	23.14	26.439		
11,950.0	11,934.9	11,920.0	11,876.2	14.7	14.5	-89.83	185.2	-913.8	615.3	591.9	23.35	26.348		
12,000.0	11,984.6	11,969.8	11,925.8	14.7	14.5	-89.84	184.9	-918.5	620.1	596.6	23.44	26.452		
12,050.0	12,033.6	12,020.2	11,975.7	14.7	14.5	-89.85	180.3	-923.3	624.8	601.3	23.50	26.588		
12,100.0	12,081.6	12,071.1	12,025.6	14.7	14.5	-89.87	171.3	-927.9	629.5	605.9	23.56	26.723		
12,150.0	12,128.2	12,122.5	12,074.9	14.7	14.5	-89.89	157.7	-932.6	634.1	610.5	23.61	26.856		
12,200.0	12,173.0	12,174.4	12,123.3	14.8	14.5	-89.91	139.4	-937.0	638.5	614.9	23.67	26.981		
12,250.0	12,215.7	12,226.9	12,170.3	14.8	14.5	-89.93	116.7	-941.3	642.8	619.1	23.73	27.093		
12,300.0	12,256.0	12,279.8	12,215.5	14.8	14.6	-89.94	89.4	-945.4	646.9	623.1	23.80	27.185		
12,350.0	12,293.6	12,333.3	12,258.4	14.9	14.6	-89.96	57.7	-949.3	650.7	626.9	23.88	27.250		
12,400.0	12,328.1	12,387.2	12,298.4	14.9	14.6	-89.98	21.8	-952.8	654.3	630.3	23.98	27.281		
12,450.0	12,359.4	12,441.6	12,335.3	15.0	14.7	-89.99	-18.0	-956.0	657.5	633.4	24.11	27.272		
12,500.0	12,387.1	12,496.5	12,368.5	15.0	14.7	90.00	-61.5	-958.9	660.4	636.1	24.26	27.219		
12,550.0	12,411.1	12,551.7	12,397.6	15.1	14.8	90.01	-108.4	-961.3	662.9	638.4	24.44	27.120		
12,600.0	12,431.2	12,607.2	12,422.1	15.2	14.9	90.02	-158.1	-963.2	665.0	640.3	24.66	26.971		
12,650.0	12,447.3	12,663.0	12,441.9	15.2	14.9	90.02	-210.3	-964.7	666.7	641.8	24.89	26.779		
12,700.0	12,459.1	12,719.1	12,456.6	15.3	15.0	90.02	-264.3	-965.7	667.9	642.7	25.16	26.545		
12,750.0	12,466.7	12,775.2	12,465.9	15.3	15.1	90.02	-319.7	-966.1	668.7	643.2	25.45	26.276		
12,800.0	12,469.9	12,831.5	12,469.9	15.3	15.3	90.01	-375.8	-966.0	669.0	643.2	25.75	25.978		
12,809.1	12,470.0	12,841.7	12,470.0	15.3	15.3	90.01	-386.0	-966.0	669.0	643.2	25.81	25.921		
12,812.4	12,470.1	12,844.9	12,470.0	15.3	15.3	90.01	-389.2	-965.9	669.0	643.1	25.83	25.896		
12,900.0	12,470.5	12,932.5	12,470.5	15.4	15.5	90.01	-476.8	-965.3	669.0	642.5	26.50	25.248		
13,000.0	12,471.1	13,032.5	12,471.0	15.5	15.8	90.01	-576.8	-964.5	669.0	641.7	27.34	24.472		
13,100.0	12,471.6	13,132.5	12,471.5	15.6	16.1	90.01	-676.8	-963.8	669.0	640.7	28.26	23.674		
13,200.0	12,472.1	13,232.5	12,472.0	15.7	16.5	90.01	-776.8	-963.0	669.0	639.8	29.25	22.870		
13,300.0	12,472.6	13,332.5	12,472.5	15.9	16.9	90.01	-876.8	-962.3	669.0	638.7	30.31	22.071		
13,400.0	12,473.2	13,432.5	12,473.1	16.1	17.4	90.01	-976.8	-961.5	669.0	637.6	31.43	21.286		
13,500.0	12,473.7	13,532.5	12,473.6	16.4	17.9	90.01	-1,076.8	-960.8	669.0	636.4	32.60	20.522		
13,600.0	12,474.2	13,632.5	12,474.1	16.7	18.4	90.01	-1,176.8	-960.1	669.0	635.2	33.82	19.783		
13,700.0	12,474.8	13,732.5	12,474.6	17.1	18.9	90.01	-1,276.8	-959.3	669.0	634.0	35.08	19.072		
13,800.0	12,475.3	13,832.5	12,475.2	17.6	19.5	90.01	-1,376.7	-958.6	669.0	632.7	36.38	18.392		
13,900.0	12,475.8	13,932.5	12,475.7	18.2	20.1	90.01	-1,476.7	-957.8	669.1	631.3	37.71	17.743		
14,000.0	12,476.3	14,032.5	12,476.2	18.8	20.8	90.01	-1,576.7	-957.1	669.1	630.0	39.07	17.124		

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

ConocoPhillips

Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	12,476.9	14,132.5	12,476.7	19.4	21.4	90.01	-1,676.7	-956.3	669.1	628.6	40.46	16.536	
14,200.0	12,477.4	14,232.5	12,477.3	20.1	22.1	90.01	-1,776.7	-955.6	669.1	627.2	41.88	15.977	
14,300.0	12,477.9	14,332.5	12,477.8	20.8	22.7	90.01	-1,876.7	-954.8	669.1	625.8	43.31	15.447	
14,400.0	12,478.5	14,432.5	12,478.3	21.6	23.4	90.00	-1,976.7	-954.1	669.1	624.3	44.77	14.944	
14,500.0	12,479.0	14,532.5	12,478.8	22.3	24.1	90.00	-2,076.7	-953.3	669.1	622.8	46.25	14.468	
14,600.0	12,479.5	14,632.5	12,479.4	23.1	24.8	90.00	-2,176.7	-952.6	669.1	621.4	47.74	14.016	
14,700.0	12,480.0	14,732.5	12,479.9	23.8	25.6	90.00	-2,276.7	-951.8	669.1	619.9	49.25	13.587	
14,800.0	12,480.6	14,832.5	12,480.4	24.6	26.3	90.00	-2,376.7	-951.1	669.1	618.3	50.77	13.179	
14,900.0	12,481.1	14,932.5	12,480.9	25.4	27.0	90.00	-2,476.7	-950.3	669.1	616.8	52.30	12.793	
15,000.0	12,481.6	15,032.5	12,481.4	26.2	27.8	90.00	-2,576.7	-949.6	669.1	615.3	53.85	12.426	
15,100.0	12,482.1	15,132.5	12,482.0	27.0	28.5	90.00	-2,676.7	-948.8	669.1	613.7	55.41	12.077	
15,200.0	12,482.7	15,232.5	12,482.5	27.8	29.3	90.00	-2,776.7	-948.1	669.1	612.2	56.97	11.745	
15,300.0	12,483.2	15,332.5	12,483.0	28.6	30.0	90.00	-2,876.7	-947.3	669.1	610.6	58.55	11.429	
15,400.0	12,483.7	15,432.5	12,483.5	29.4	30.8	90.00	-2,976.7	-946.6	669.2	609.0	60.13	11.128	
15,500.0	12,484.3	15,532.5	12,484.1	30.2	31.6	90.00	-3,076.7	-945.8	669.2	607.4	61.72	10.842	
15,600.0	12,484.8	15,632.5	12,484.6	31.0	32.4	90.00	-3,176.7	-945.1	669.2	605.8	63.32	10.568	
15,700.0	12,485.3	15,732.5	12,485.1	31.8	33.2	90.00	-3,276.7	-944.4	669.2	604.3	64.93	10.307	
15,800.0	12,485.8	15,832.5	12,485.6	32.6	33.9	90.00	-3,376.7	-943.6	669.2	602.6	66.54	10.057	
15,900.0	12,486.4	15,932.5	12,486.2	33.5	34.7	90.00	-3,476.7	-942.9	669.2	601.0	68.15	9.819	
16,000.0	12,486.9	16,032.5	12,486.7	34.3	35.5	90.00	-3,576.7	-942.1	669.2	599.4	69.77	9.591	
16,100.0	12,487.4	16,132.5	12,487.2	35.1	36.3	90.00	-3,676.7	-941.4	669.2	597.8	71.40	9.372	
16,200.0	12,488.0	16,232.5	12,487.7	35.9	37.1	90.00	-3,776.6	-940.6	669.2	596.2	73.03	9.163	
16,300.0	12,488.5	16,332.5	12,488.3	36.8	37.9	90.00	-3,876.6	-939.9	669.2	594.5	74.67	8.963	
16,400.0	12,489.0	16,432.5	12,488.8	37.6	38.7	90.00	-3,976.6	-939.1	669.2	592.9	76.31	8.770	
16,500.0	12,489.5	16,532.5	12,489.3	38.4	39.5	90.00	-4,076.6	-938.4	669.2	591.3	77.95	8.585	
16,600.0	12,490.1	16,632.5	12,489.8	39.3	40.4	90.00	-4,176.6	-937.6	669.2	589.6	79.60	8.408	
16,700.0	12,490.6	16,732.5	12,490.4	40.1	41.2	90.00	-4,276.6	-936.9	669.2	588.0	81.25	8.237	
16,800.0	12,491.1	16,832.5	12,490.9	40.9	42.0	90.00	-4,376.6	-936.1	669.3	586.3	82.90	8.073	
16,900.0	12,491.7	16,932.5	12,491.4	41.8	42.8	90.00	-4,476.6	-935.4	669.3	584.7	84.56	7.915	
17,000.0	12,492.2	17,032.5	12,491.9	42.6	43.6	89.99	-4,576.6	-934.6	669.3	583.0	86.22	7.762	
17,100.0	12,492.7	17,132.5	12,492.4	43.5	44.4	89.99	-4,676.6	-933.9	669.3	581.4	87.88	7.616	
17,200.0	12,493.2	17,232.5	12,493.0	44.3	45.3	89.99	-4,776.6	-933.1	669.3	579.7	89.54	7.474	
17,300.0	12,493.8	17,332.5	12,493.5	45.1	46.1	89.99	-4,876.6	-932.4	669.3	578.1	91.21	7.338	
17,400.0	12,494.3	17,432.5	12,494.0	46.0	46.9	89.99	-4,976.6	-931.6	669.3	576.4	92.88	7.206	
17,500.0	12,494.8	17,532.5	12,494.5	46.8	47.7	89.99	-5,076.6	-930.9	669.3	574.7	94.55	7.079	
17,600.0	12,495.3	17,632.5	12,495.1	47.7	48.6	89.99	-5,176.6	-930.2	669.3	573.1	96.22	6.956	
17,700.0	12,495.9	17,732.5	12,495.6	48.5	49.4	89.99	-5,276.6	-929.4	669.3	571.4	97.90	6.837	
17,800.0	12,496.4	17,832.5	12,496.1	49.4	50.2	89.99	-5,376.6	-928.7	669.3	569.7	99.57	6.722	
17,900.0	12,496.9	17,932.5	12,496.6	50.2	51.1	89.99	-5,476.6	-927.9	669.3	568.1	101.25	6.610	
18,000.0	12,497.5	18,032.5	12,497.2	51.0	51.9	89.99	-5,576.6	-927.2	669.3	566.4	102.93	6.503	
18,100.0	12,498.0	18,132.5	12,497.7	51.9	52.7	89.99	-5,676.6	-926.4	669.3	564.7	104.61	6.398	
18,200.0	12,498.5	18,232.5	12,498.2	52.7	53.6	89.99	-5,776.6	-925.7	669.3	563.0	106.30	6.297	
18,300.0	12,499.0	18,332.5	12,498.7	53.6	54.4	89.99	-5,876.6	-924.9	669.4	561.4	107.98	6.199	
18,400.0	12,499.6	18,432.5	12,499.3	54.4	55.2	89.99	-5,976.6	-924.2	669.4	559.7	109.67	6.104	
18,500.0	12,500.1	18,532.5	12,499.8	55.3	56.1	89.99	-6,076.6	-923.4	669.4	558.0	111.35	6.011	
18,600.0	12,500.6	18,632.5	12,500.3	56.1	56.9	89.99	-6,176.5	-922.7	669.4	556.3	113.04	5.921	
18,700.0	12,501.2	18,732.5	12,500.8	57.0	57.7	89.99	-6,276.5	-921.9	669.4	554.6	114.73	5.834	
18,800.0	12,501.7	18,832.5	12,501.3	57.8	58.6	89.99	-6,376.5	-921.2	669.4	553.0	116.42	5.750	
18,900.0	12,502.2	18,932.5	12,501.9	58.7	59.4	89.99	-6,476.5	-920.4	669.4	551.3	118.11	5.667	
19,000.0	12,502.7	19,032.5	12,502.4	59.5	60.3	89.99	-6,576.5	-919.7	669.4	549.6	119.81	5.587	
19,100.0	12,503.3	19,132.5	12,502.9	60.4	61.1	89.99	-6,676.5	-918.9	669.4	547.9	121.50	5.510	
19,200.0	12,503.8	19,232.5	12,503.4	61.2	62.0	89.99	-6,776.5	-918.2	669.4	546.2	123.19	5.434	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,300.0	12,504.3	19,332.5	12,504.0	62.1	62.8	89.99	-6,876.5	-917.4	669.4	544.5	124.89	5.360		
19,400.0	12,504.9	19,432.5	12,504.5	63.0	63.6	89.99	-6,976.5	-916.7	669.4	542.8	126.59	5.288		
19,500.0	12,505.4	19,532.5	12,505.0	63.8	64.5	89.99	-7,076.5	-915.9	669.4	541.1	128.28	5.218		
19,600.0	12,505.9	19,632.5	12,505.5	64.7	65.3	89.99	-7,176.5	-915.2	669.4	539.5	129.98	5.150		
19,700.0	12,506.4	19,732.5	12,506.1	65.5	66.2	89.98	-7,276.5	-914.5	669.4	537.8	131.68	5.084		
19,800.0	12,507.0	19,832.5	12,506.6	66.4	67.0	89.98	-7,376.5	-913.7	669.5	536.1	133.38	5.019		
19,900.0	12,507.5	19,932.5	12,507.1	67.2	67.9	89.98	-7,476.5	-913.0	669.5	534.4	135.08	4.956		
20,000.0	12,508.0	20,032.5	12,507.6	68.1	68.7	89.98	-7,576.5	-912.2	669.5	532.7	136.78	4.894		
20,100.0	12,508.5	20,132.5	12,508.2	68.9	69.6	89.98	-7,676.5	-911.5	669.5	531.0	138.48	4.834		
20,200.0	12,509.1	20,232.5	12,508.7	69.8	70.4	89.98	-7,776.5	-910.7	669.5	529.3	140.18	4.776		
20,300.0	12,509.6	20,332.5	12,509.2	70.6	71.3	89.98	-7,876.5	-910.0	669.5	527.6	141.89	4.718		
20,400.0	12,510.1	20,432.5	12,509.7	71.5	72.1	89.98	-7,976.5	-909.2	669.5	525.9	143.59	4.663		
20,500.0	12,510.7	20,532.5	12,510.2	72.4	72.9	89.98	-8,076.5	-908.5	669.5	524.2	145.29	4.608		
20,600.0	12,511.2	20,632.5	12,510.8	73.2	73.8	89.98	-8,176.5	-907.7	669.5	522.5	147.00	4.555		
20,700.0	12,511.7	20,732.5	12,511.3	74.1	74.6	89.98	-8,276.5	-907.0	669.5	520.8	148.70	4.502		
20,800.0	12,512.2	20,832.5	12,511.8	74.9	75.5	89.98	-8,376.5	-906.2	669.5	519.1	150.41	4.451		
20,900.0	12,512.8	20,932.5	12,512.3	75.8	76.3	89.98	-8,476.5	-905.5	669.5	517.4	152.11	4.401		
21,000.0	12,513.3	21,032.5	12,512.9	76.6	77.2	89.98	-8,576.4	-904.7	669.5	515.7	153.82	4.353		
21,100.0	12,513.8	21,132.5	12,513.4	77.5	78.0	89.98	-8,676.4	-904.0	669.5	514.0	155.53	4.305		
21,200.0	12,514.4	21,232.5	12,513.9	78.3	78.9	89.98	-8,776.4	-903.2	669.5	512.3	157.24	4.258		
21,200.3	12,514.4	21,232.8	12,513.9	78.3	78.9	89.98	-8,776.7	-903.2	669.5	512.3	157.24	4.258		
21,300.0	12,514.9	21,321.1	12,514.4	79.2	79.6	89.98	-8,865.0	-903.0	670.1	511.2	158.84	4.219		
21,400.0	12,515.4	21,400.0	12,514.8	80.1	80.3	89.98	-8,943.9	-904.8	673.2	513.0	160.24	4.201		
21,500.0	12,515.9	21,490.3	12,515.3	80.9	81.1	89.98	-9,034.2	-909.3	678.9	517.2	161.75	4.197		
21,600.0	12,516.5	21,590.1	12,515.8	81.8	81.9	89.98	-9,133.8	-914.8	685.2	521.7	163.45	4.192		
21,700.0	12,517.0	21,689.9	12,516.3	82.6	82.8	89.98	-9,233.5	-920.3	691.4	526.2	165.15	4.186		
21,800.0	12,517.5	21,789.8	12,516.8	83.5	83.6	89.98	-9,333.1	-925.8	697.6	530.8	166.86	4.181		
21,900.0	12,518.1	21,889.6	12,517.4	84.3	84.5	89.98	-9,432.8	-931.3	703.9	535.3	168.56	4.176		
22,000.0	12,518.6	21,989.4	12,517.9	85.2	85.3	89.98	-9,532.4	-936.7	710.1	539.9	170.26	4.171		
22,100.0	12,519.1	22,122.0	12,518.6	86.1	86.4	89.98	-9,664.9	-941.0	714.1	541.6	172.48	4.140		
22,200.0	12,519.6	22,255.1	12,519.3	86.9	87.6	89.98	-9,798.1	-939.1	713.4	539.1	174.37	4.091		
22,300.0	12,520.2	22,378.1	12,519.9	87.8	88.6	89.98	-9,920.8	-932.0	708.3	532.3	176.02	4.024		
22,400.0	12,520.7	22,477.9	12,520.5	88.6	89.5	89.98	-10,020.4	-925.1	702.1	524.4	177.73	3.951		
22,500.0	12,521.2	22,577.7	12,521.0	89.5	90.3	89.98	-10,119.9	-918.1	695.9	516.5	179.44	3.878		
22,600.0	12,521.8	22,677.5	12,521.5	90.4	91.2	89.98	-10,219.5	-911.2	689.7	508.5	181.16	3.807		
22,700.0	12,522.3	22,777.3	12,522.0	91.2	92.0	89.98	-10,319.0	-904.2	683.5	500.6	182.87	3.737		
22,800.0	12,522.8	22,877.1	12,522.5	92.1	92.9	89.98	-10,418.6	-897.2	677.2	492.7	184.58	3.669		
22,900.0	12,523.3	22,960.0	12,523.0	92.9	93.6	89.98	-10,501.4	-892.4	672.1	485.8	186.38	3.606		
23,000.0	12,523.9	23,041.0	12,523.4	93.8	94.3	89.98	-10,582.3	-889.9	669.8	481.8	188.06	3.562		
23,032.4	12,524.0	23,067.4	12,523.6	94.1	94.5	89.98	-10,608.8	-889.6	669.7	481.1	188.57	3.551		
23,100.0	12,524.4	23,135.0	12,523.9	94.6	95.1	89.98	-10,676.4	-889.1	669.7	480.0	189.73	3.530		
23,200.0	12,524.9	23,235.0	12,524.5	95.5	95.9	89.98	-10,776.4	-888.3	669.7	478.3	191.45	3.498		
23,300.0	12,525.4	23,335.0	12,525.0	96.4	96.8	89.98	-10,876.4	-887.6	669.7	476.6	193.16	3.467		
23,400.0	12,526.0	23,435.0	12,525.5	97.2	97.7	89.98	-10,976.4	-886.8	669.7	474.8	194.87	3.437		
23,500.0	12,526.5	23,535.0	12,526.1	98.1	98.5	89.98	-11,076.3	-886.1	669.7	473.1	196.59	3.407		
23,600.0	12,527.0	23,635.0	12,526.6	98.9	99.4	89.98	-11,176.3	-885.3	669.7	471.4	198.30	3.377		
23,700.0	12,527.6	23,735.0	12,527.2	99.8	100.2	89.98	-11,276.3	-884.6	669.7	469.7	200.02	3.348		
23,800.0	12,528.1	23,835.0	12,527.7	100.7	101.1	89.98	-11,376.3	-883.8	669.7	468.0	201.73	3.320		
23,900.0	12,528.6	23,935.0	12,528.2	101.5	101.9	89.98	-11,476.3	-883.1	669.8	466.3	203.45	3.292		
24,000.0	12,529.1	24,035.0	12,528.8	102.4	102.8	89.98	-11,576.3	-882.3	669.8	464.6	205.17	3.264		
24,100.0	12,529.7	24,135.0	12,529.3	103.2	103.6	89.99	-11,676.3	-881.6	669.8	462.9	206.88	3.237		
24,200.0	12,530.2	24,235.0	12,529.8	104.1	104.5	89.99	-11,776.3	-880.8	669.8	461.2	208.60	3.211		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design: MEAT LOVER FED COM PROJECT - MEAT LOVER FED COM #604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,300.0	12,530.7	24,335.0	12,530.4	105.0	105.4	89.99	-11,876.3	-880.1	669.8	459.5	210.31	3.185		
24,400.0	12,531.3	24,435.0	12,530.9	105.8	106.2	89.99	-11,976.3	-879.3	669.8	457.8	212.03	3.159		
24,500.0	12,531.8	24,535.0	12,531.5	106.7	107.1	89.99	-12,076.3	-878.6	669.8	456.0	213.75	3.134		
24,600.0	12,532.3	24,635.0	12,532.0	107.5	107.9	89.99	-12,176.3	-877.8	669.8	454.3	215.46	3.109		
24,700.0	12,532.8	24,735.0	12,532.5	108.4	108.8	89.99	-12,276.3	-877.1	669.8	452.6	217.18	3.084		
24,800.0	12,533.4	24,835.0	12,533.1	109.3	109.6	89.99	-12,376.3	-876.3	669.8	450.9	218.90	3.060		
24,900.0	12,533.9	24,935.0	12,533.6	110.1	110.5	89.99	-12,476.3	-875.6	669.8	449.2	220.62	3.036		
25,000.0	12,534.4	25,035.0	12,534.1	111.0	111.4	89.99	-12,576.3	-874.9	669.8	447.5	222.33	3.013		
25,100.0	12,535.0	25,135.0	12,534.7	111.8	112.2	89.99	-12,676.3	-874.1	669.8	445.8	224.05	2.990		
25,200.0	12,535.5	25,235.0	12,535.2	112.7	113.1	89.99	-12,776.3	-873.4	669.8	444.1	225.77	2.967		
25,300.0	12,536.0	25,335.0	12,535.8	113.6	113.9	90.00	-12,876.3	-872.6	669.8	442.4	227.49	2.945		
25,400.0	12,536.5	25,435.0	12,536.3	114.4	114.8	90.00	-12,976.3	-871.9	669.8	440.6	229.21	2.922		
25,500.0	12,537.1	25,535.0	12,536.8	115.3	115.6	90.00	-13,076.3	-871.1	669.9	438.9	230.92	2.901		
25,600.0	12,537.6	25,635.0	12,537.4	116.1	116.5	90.00	-13,176.3	-870.4	669.9	437.2	232.64	2.879		
25,700.0	12,538.1	25,735.0	12,537.9	117.0	117.4	90.00	-13,276.3	-869.6	669.9	435.5	234.36	2.858		
25,800.0	12,538.6	25,835.0	12,538.4	117.9	118.2	90.00	-13,376.2	-868.9	669.9	433.8	236.08	2.837		
25,900.0	12,539.2	25,935.0	12,539.0	118.7	119.1	90.00	-13,476.2	-868.1	669.9	432.1	237.80	2.817		
26,000.0	12,539.7	26,035.0	12,539.5	119.6	119.9	90.00	-13,576.2	-867.4	669.9	430.4	239.52	2.797		
26,100.0	12,540.2	26,135.0	12,540.1	120.4	120.8	90.00	-13,676.2	-866.6	669.9	428.7	241.24	2.777		
26,200.0	12,540.8	26,235.0	12,540.6	121.3	121.6	90.00	-13,776.2	-865.9	669.9	426.9	242.96	2.757		
26,300.0	12,541.3	26,335.0	12,541.1	122.2	122.5	90.00	-13,876.2	-865.1	669.9	425.2	244.67	2.738		
26,400.0	12,541.8	26,435.0	12,541.7	123.0	123.4	90.00	-13,976.2	-864.4	669.9	423.5	246.39	2.719		
26,500.0	12,542.3	26,535.0	12,542.2	123.9	124.2	90.01	-14,076.2	-863.6	669.9	421.8	248.11	2.700		
26,600.0	12,542.9	26,635.0	12,542.7	124.8	125.1	90.01	-14,176.2	-862.9	669.9	420.1	249.83	2.681		
26,700.0	12,543.4	26,735.0	12,543.3	125.6	125.9	90.01	-14,276.2	-862.1	669.9	418.4	251.55	2.663		
26,800.0	12,543.9	26,835.0	12,543.8	126.5	126.8	90.01	-14,376.2	-861.4	669.9	416.7	253.27	2.645		
26,900.0	12,544.5	26,935.0	12,544.4	127.3	127.7	90.01	-14,476.2	-860.6	669.9	414.9	254.99	2.627		
27,000.0	12,545.0	27,035.0	12,544.9	128.2	128.5	90.01	-14,576.2	-859.9	669.9	413.2	256.71	2.610		
27,100.0	12,545.5	27,135.0	12,545.4	129.1	129.4	90.01	-14,676.2	-859.1	670.0	411.5	258.43	2.592		
27,200.0	12,546.0	27,235.0	12,546.0	129.9	130.2	90.01	-14,776.2	-858.4	670.0	409.8	260.15	2.575		
27,300.0	12,546.6	27,335.0	12,546.5	130.8	131.1	90.01	-14,876.2	-857.6	670.0	408.1	261.87	2.558		
27,400.0	12,547.1	27,435.0	12,547.1	131.6	132.0	90.01	-14,976.2	-856.9	670.0	406.4	263.59	2.542		
27,500.0	12,547.6	27,535.0	12,547.6	132.5	132.8	90.01	-15,076.2	-856.1	670.0	404.7	265.31	2.525		
27,600.0	12,548.2	27,635.0	12,548.1	133.4	133.7	90.02	-15,176.2	-855.4	670.0	402.9	267.04	2.509		
27,700.0	12,548.7	27,735.0	12,548.7	134.2	134.5	90.02	-15,276.2	-854.7	670.0	401.2	268.76	2.493		
27,800.0	12,549.2	27,835.0	12,549.2	135.1	135.4	90.02	-15,376.2	-853.9	670.0	399.5	270.48	2.477		
27,900.0	12,549.7	27,935.0	12,549.7	135.9	136.2	90.02	-15,476.2	-853.2	670.0	397.8	272.20	2.461		
27,904.3	12,549.8	27,939.3	12,549.8	136.0	136.3	90.02	-15,480.5	-853.1	670.0	397.7	272.26	2.461		
27,949.7	12,550.0	27,982.9	12,550.0	136.3	136.7	90.02	-15,524.0	-852.8	670.0	397.1	272.92	2.455 SF		

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

ConocoPhillips

Anticollision Report

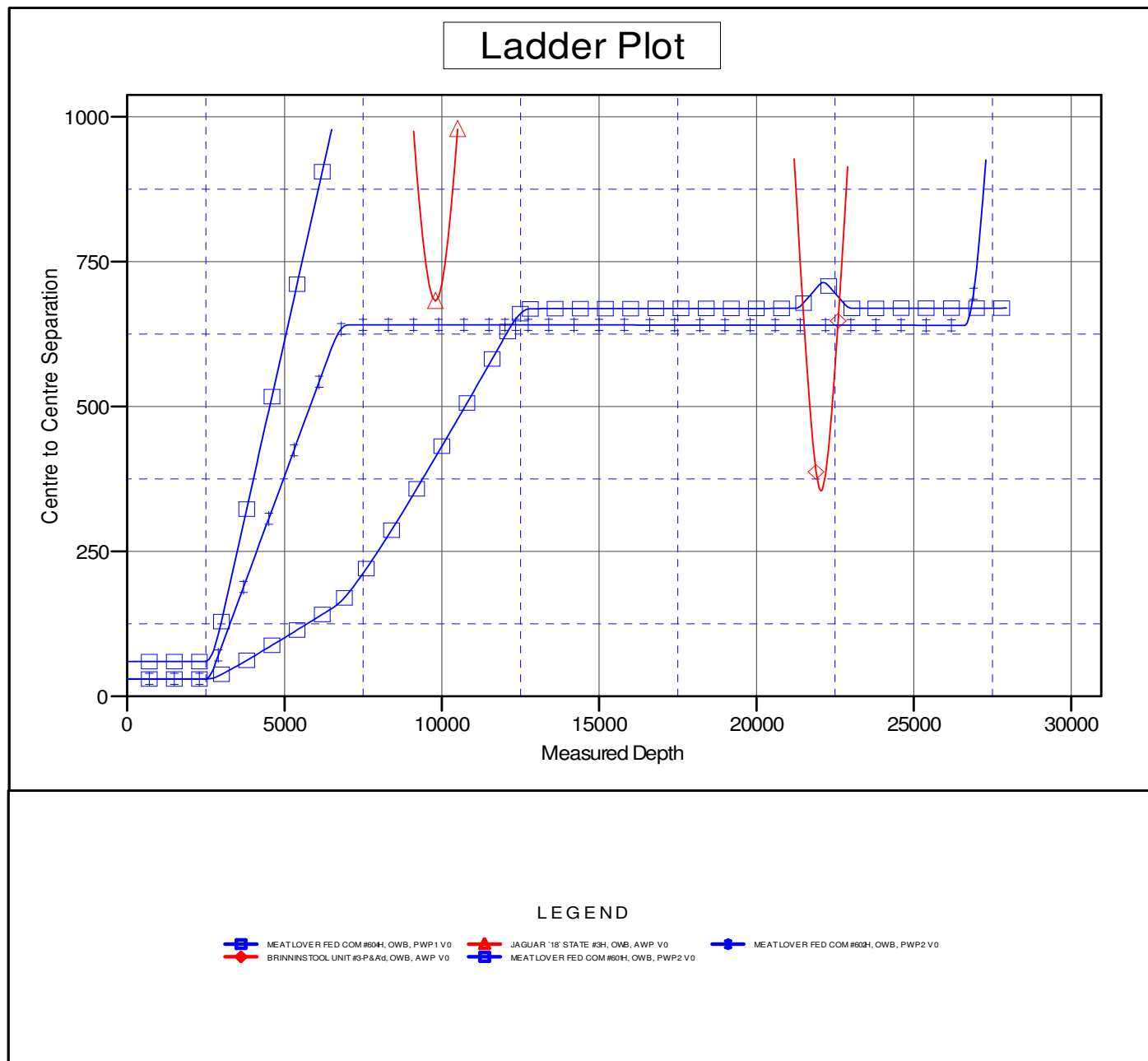
Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3746.4usft (SCAN QUEST) Coordinates are relative to: MEAT LOVER FED COM #603H

Offset Depths are relative to Offset Datum

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

Central Meridian is 104° 20' 0.000 W
Grid Convergence at Surface is: 0.39°



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

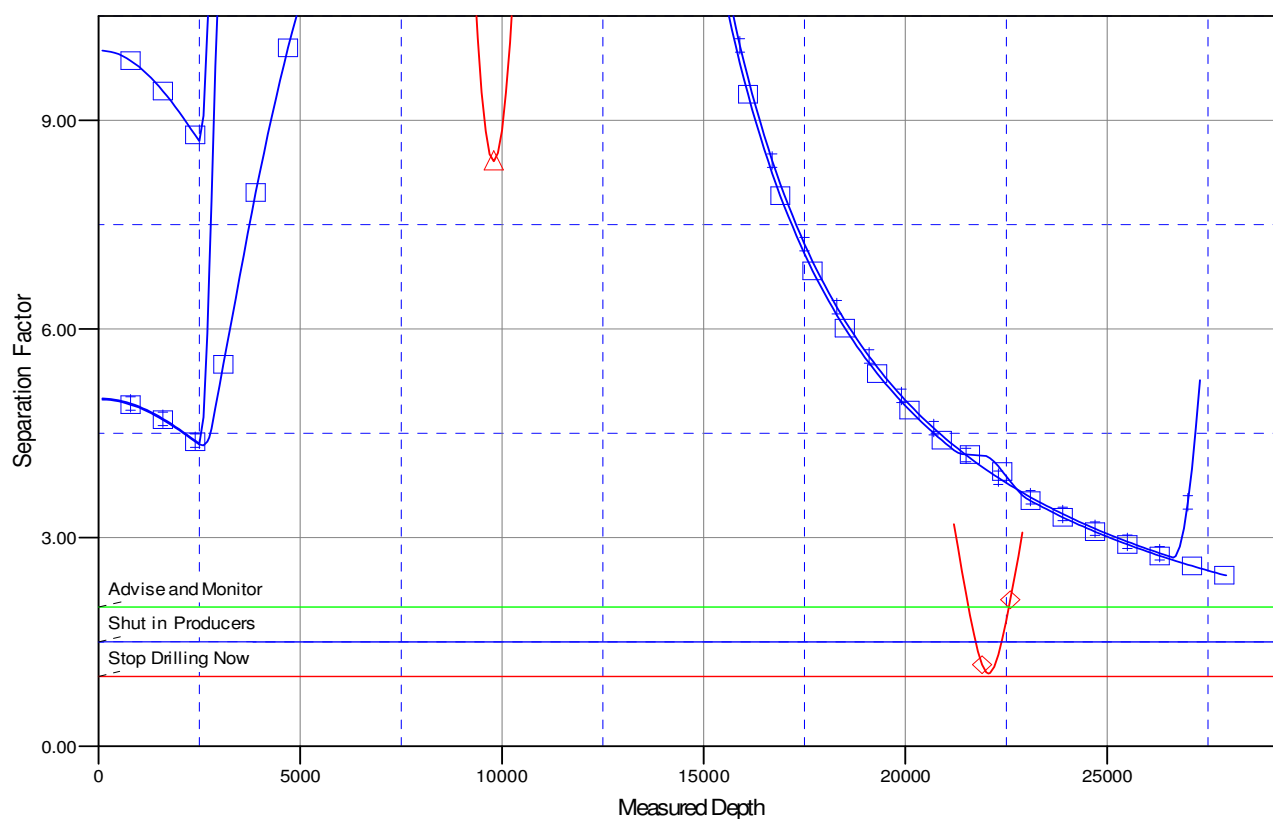
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3746.4usft (SCAN QUEST) Coordinates are relative to: MEAT LOVER FED COM #603H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.39°

Separation Factor Plot



LEGEND

■ MEAT LOVER FED COM #604H, OWB, PWP1 V0 ■ JAGUAR 18' STATE #3H, OWB, AWP V0 ■ MEAT LOVER FED COM #603H, OWB, PWP2 V0
 ■ BRNNINSTOOL UNIT #3-P&A, OWB, AWP V0 ■ MEAT LOVER FED COM #603H, OWB, PWP2 V0

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

4/26/2022 2:55:07PM

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COMPASS 5000.15 Build 91E

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
MEAT LOVER FED COM PROJECT
MEAT LOVER FED COM #603H**

OWB

Plan: PWP2

Standard Survey Report

26 April, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Project	BULLDOG 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		

Site	MEAT LOVER FED COM PROJECT		
Site Position:		Northing:	477,926.73 usft
From:	Map	Easting:	720,599.28 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 42.901 N
		Longitude:	103° 37' 9.447 W
		Grid Convergence:	0.38 °

Well	MEAT LOVER FED COM #603H		
Well Position	+N/-S	0.0 usft	Northing: 477,675.30 usft
	+E/-W	0.0 usft	Easting: 724,467.60 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 18' 40.156 N
		Longitude:	103° 36' 24.394 W
		Ground Level:	3,716.4 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	7/7/2021	6.55
			Dip Angle (°) 60.00
			Field Strength (nT) 47,752.60436215

Design	PWP2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 180.67

Survey Tool Program	Date	4/26/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,913.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,913.0	27,949.3	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	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
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	302.10	2,600.0	0.9	-1.5	-0.9	2.00	2.00	0.00
2,700.0	4.00	302.10	2,699.8	3.7	-5.9	-3.6	2.00	2.00	0.00
2,750.0	5.00	302.10	2,749.7	5.8	-9.2	-5.7	2.00	2.00	0.00
Start 3705.6 hold at 2750.0 MD									
2,800.0	5.00	302.10	2,799.5	8.1	-12.9	-8.0	0.00	0.00	0.00
2,900.0	5.00	302.10	2,899.1	12.7	-20.3	-12.5	0.00	0.00	0.00
3,000.0	5.00	302.10	2,998.7	17.4	-27.7	-17.0	0.00	0.00	0.00
3,100.0	5.00	302.10	3,098.4	22.0	-35.1	-21.6	0.00	0.00	0.00
3,200.0	5.00	302.10	3,198.0	26.6	-42.5	-26.1	0.00	0.00	0.00
3,300.0	5.00	302.10	3,297.6	31.3	-49.8	-30.7	0.00	0.00	0.00
3,400.0	5.00	302.10	3,397.2	35.9	-57.2	-35.2	0.00	0.00	0.00
3,500.0	5.00	302.10	3,496.8	40.5	-64.6	-39.8	0.00	0.00	0.00
3,600.0	5.00	302.10	3,596.4	45.2	-72.0	-44.3	0.00	0.00	0.00
3,700.0	5.00	302.10	3,696.1	49.8	-79.4	-48.9	0.00	0.00	0.00
3,800.0	5.00	302.10	3,795.7	54.4	-86.8	-53.4	0.00	0.00	0.00
3,900.0	5.00	302.10	3,895.3	59.1	-94.1	-57.9	0.00	0.00	0.00
4,000.0	5.00	302.10	3,994.9	63.7	-101.5	-62.5	0.00	0.00	0.00
4,100.0	5.00	302.10	4,094.5	68.3	-108.9	-67.0	0.00	0.00	0.00
4,200.0	5.00	302.10	4,194.2	72.9	-116.3	-71.6	0.00	0.00	0.00
4,300.0	5.00	302.10	4,293.8	77.6	-123.7	-76.1	0.00	0.00	0.00
4,400.0	5.00	302.10	4,393.4	82.2	-131.1	-80.7	0.00	0.00	0.00
4,500.0	5.00	302.10	4,493.0	86.8	-138.4	-85.2	0.00	0.00	0.00
4,600.0	5.00	302.10	4,592.6	91.5	-145.8	-89.7	0.00	0.00	0.00
4,700.0	5.00	302.10	4,692.3	96.1	-153.2	-94.3	0.00	0.00	0.00
4,800.0	5.00	302.10	4,791.9	100.7	-160.6	-98.8	0.00	0.00	0.00
4,900.0	5.00	302.10	4,891.5	105.4	-168.0	-103.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	5.00	302.10	4,991.1	110.0	-175.4	-107.9	0.00	0.00	0.00	
5,100.0	5.00	302.10	5,090.7	114.6	-182.7	-112.5	0.00	0.00	0.00	
5,200.0	5.00	302.10	5,190.4	119.3	-190.1	-117.0	0.00	0.00	0.00	
5,300.0	5.00	302.10	5,290.0	123.9	-197.5	-121.6	0.00	0.00	0.00	
5,400.0	5.00	302.10	5,389.6	128.5	-204.9	-126.1	0.00	0.00	0.00	
5,500.0	5.00	302.10	5,489.2	133.2	-212.3	-130.6	0.00	0.00	0.00	
5,600.0	5.00	302.10	5,588.8	137.8	-219.7	-135.2	0.00	0.00	0.00	
5,700.0	5.00	302.10	5,688.5	142.4	-227.0	-139.7	0.00	0.00	0.00	
5,800.0	5.00	302.10	5,788.1	147.0	-234.4	-144.3	0.00	0.00	0.00	
5,900.0	5.00	302.10	5,887.7	151.7	-241.8	-148.8	0.00	0.00	0.00	
6,000.0	5.00	302.10	5,987.3	156.3	-249.2	-153.4	0.00	0.00	0.00	
6,100.0	5.00	302.10	6,086.9	160.9	-256.6	-157.9	0.00	0.00	0.00	
6,200.0	5.00	302.10	6,186.6	165.6	-264.0	-162.5	0.00	0.00	0.00	
6,300.0	5.00	302.10	6,286.2	170.2	-271.3	-167.0	0.00	0.00	0.00	
6,400.0	5.00	302.10	6,385.8	174.8	-278.7	-171.5	0.00	0.00	0.00	
6,455.6	5.00	302.10	6,441.2	177.4	-282.8	-174.1	0.00	0.00	0.00	
Start Drop -1.00										
6,500.0	4.56	302.10	6,485.4	179.4	-286.0	-176.0	1.00	-1.00	0.00	
6,600.0	3.56	302.10	6,585.2	183.1	-292.0	-179.7	1.00	-1.00	0.00	
6,700.0	2.56	302.10	6,685.0	186.0	-296.5	-182.5	1.00	-1.00	0.00	
6,800.0	1.56	302.10	6,785.0	187.9	-299.5	-184.3	1.00	-1.00	0.00	
6,900.0	0.56	302.10	6,884.9	188.9	-301.1	-185.3	1.00	-1.00	0.00	
6,955.6	0.00	0.00	6,940.6	189.0	-301.3	-185.4	1.00	-1.00	0.00	
Start 4956.5 hold at 6955.6 MD										
7,000.0	0.00	0.00	6,984.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,084.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,184.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,284.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,384.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,484.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,584.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,684.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,784.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,884.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,984.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,084.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,184.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,284.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,384.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,484.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,584.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,684.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,784.9	189.0	-301.3	-185.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,884.9	189.0	-301.3	-185.4	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.0	0.00	0.00	8,984.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,384.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,484.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,584.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,684.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,784.9	189.0	-301.3	-185.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,884.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,984.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,084.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,184.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,284.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,384.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,484.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,584.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,684.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,784.9	189.0	-301.3	-185.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,884.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,984.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,084.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,184.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,284.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,384.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,484.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,584.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,700.0	0.00	0.00	11,684.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,800.0	0.00	0.00	11,784.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,900.0	0.00	0.00	11,884.9	189.0	-301.3	-185.4	0.00	0.00	0.00
11,912.2	0.00	0.00	11,897.1	189.0	-301.3	-185.4	0.00	0.00	0.00
Start DLS 10.00 TFO 179.57									
11,950.0	3.78	179.57	11,934.9	187.8	-301.3	-184.2	10.00	10.00	0.00
12,000.0	8.78	179.57	11,984.6	182.3	-301.2	-178.7	10.00	10.00	0.00
12,050.0	13.78	179.57	12,033.6	172.5	-301.2	-168.9	10.00	10.00	0.00
12,100.0	18.78	179.57	12,081.6	158.5	-301.1	-154.9	10.00	10.00	0.00
12,150.0	23.78	179.57	12,128.2	140.3	-300.9	-136.8	10.00	10.00	0.00
12,200.0	28.78	179.57	12,173.0	118.2	-300.8	-114.7	10.00	10.00	0.00
12,250.0	33.78	179.57	12,215.7	92.2	-300.6	-88.7	10.00	10.00	0.00
12,300.0	38.78	179.57	12,256.0	62.7	-300.3	-59.1	10.00	10.00	0.00
12,350.0	43.78	179.57	12,293.6	29.7	-300.1	-26.2	10.00	10.00	0.00
12,400.0	48.78	179.57	12,328.1	-6.4	-299.8	10.0	10.00	10.00	0.00
12,450.0	53.78	179.57	12,359.4	-45.4	-299.5	49.0	10.00	10.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,500.0	58.78	179.57	12,387.1	-87.0	-299.2	90.5	10.00	10.00	0.00	
12,550.0	63.78	179.57	12,411.1	-130.8	-298.9	134.4	10.00	10.00	0.00	
12,600.0	68.78	179.57	12,431.2	-176.6	-298.5	180.1	10.00	10.00	0.00	
12,650.0	73.78	179.57	12,447.3	-223.9	-298.2	227.4	10.00	10.00	0.00	
12,700.0	78.78	179.57	12,459.1	-272.5	-297.8	276.0	10.00	10.00	0.00	
12,750.0	83.78	179.57	12,466.7	-321.9	-297.4	325.4	10.00	10.00	0.00	
12,800.0	88.78	179.57	12,469.9	-371.8	-297.1	375.3	10.00	10.00	0.00	
12,809.1	89.70	179.57	12,470.0	-380.9	-297.0	384.4	10.00	10.00	0.00	
Start 15140.5 hold at 12809.1 MD										
12,900.0	89.70	179.57	12,470.5	-471.8	-296.3	475.2	0.00	0.00	0.00	
13,000.0	89.70	179.57	12,471.1	-571.8	-295.6	575.2	0.00	0.00	0.00	
13,100.0	89.70	179.57	12,471.6	-671.8	-294.8	675.2	0.00	0.00	0.00	
13,200.0	89.70	179.57	12,472.1	-771.8	-294.1	775.2	0.00	0.00	0.00	
13,300.0	89.70	179.57	12,472.6	-871.8	-293.3	875.2	0.00	0.00	0.00	
13,400.0	89.70	179.57	12,473.2	-971.8	-292.5	975.1	0.00	0.00	0.00	
13,500.0	89.70	179.57	12,473.7	-1,071.8	-291.8	1,075.1	0.00	0.00	0.00	
13,600.0	89.70	179.57	12,474.2	-1,171.8	-291.0	1,175.1	0.00	0.00	0.00	
13,700.0	89.70	179.57	12,474.8	-1,271.8	-290.3	1,275.1	0.00	0.00	0.00	
13,800.0	89.70	179.57	12,475.3	-1,371.7	-289.5	1,375.1	0.00	0.00	0.00	
13,900.0	89.70	179.57	12,475.8	-1,471.7	-288.8	1,475.0	0.00	0.00	0.00	
14,000.0	89.70	179.57	12,476.3	-1,571.7	-288.0	1,575.0	0.00	0.00	0.00	
14,100.0	89.70	179.57	12,476.9	-1,671.7	-287.3	1,675.0	0.00	0.00	0.00	
14,200.0	89.70	179.57	12,477.4	-1,771.7	-286.5	1,775.0	0.00	0.00	0.00	
14,300.0	89.70	179.57	12,477.9	-1,871.7	-285.8	1,875.0	0.00	0.00	0.00	
14,400.0	89.70	179.57	12,478.5	-1,971.7	-285.0	1,974.9	0.00	0.00	0.00	
14,500.0	89.70	179.57	12,479.0	-2,071.7	-284.2	2,074.9	0.00	0.00	0.00	
14,600.0	89.70	179.57	12,479.5	-2,171.7	-283.5	2,174.9	0.00	0.00	0.00	
14,700.0	89.70	179.57	12,480.0	-2,271.7	-282.7	2,274.9	0.00	0.00	0.00	
14,800.0	89.70	179.57	12,480.6	-2,371.7	-282.0	2,374.9	0.00	0.00	0.00	
14,900.0	89.70	179.57	12,481.1	-2,471.7	-281.2	2,474.8	0.00	0.00	0.00	
15,000.0	89.70	179.57	12,481.6	-2,571.7	-280.5	2,574.8	0.00	0.00	0.00	
15,100.0	89.70	179.57	12,482.1	-2,671.7	-279.7	2,674.8	0.00	0.00	0.00	
15,200.0	89.70	179.57	12,482.7	-2,771.7	-279.0	2,774.8	0.00	0.00	0.00	
15,300.0	89.70	179.57	12,483.2	-2,871.7	-278.2	2,874.8	0.00	0.00	0.00	
15,400.0	89.70	179.57	12,483.7	-2,971.7	-277.5	2,974.7	0.00	0.00	0.00	
15,500.0	89.70	179.57	12,484.3	-3,071.7	-276.7	3,074.7	0.00	0.00	0.00	
15,600.0	89.70	179.57	12,484.8	-3,171.7	-276.0	3,174.7	0.00	0.00	0.00	
15,700.0	89.70	179.57	12,485.3	-3,271.7	-275.2	3,274.7	0.00	0.00	0.00	
15,800.0	89.70	179.57	12,485.8	-3,371.7	-274.4	3,374.7	0.00	0.00	0.00	
15,900.0	89.70	179.57	12,486.4	-3,471.7	-273.7	3,474.6	0.00	0.00	0.00	
16,000.0	89.70	179.57	12,486.9	-3,571.7	-272.9	3,574.6	0.00	0.00	0.00	
16,100.0	89.70	179.57	12,487.4	-3,671.6	-272.2	3,674.6	0.00	0.00	0.00	
16,200.0	89.70	179.57	12,488.0	-3,771.6	-271.4	3,774.6	0.00	0.00	0.00	
16,300.0	89.70	179.57	12,488.5	-3,871.6	-270.7	3,874.6	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,400.0	89.70	179.57	12,489.0	-3,971.6	-269.9	3,974.5	0.00	0.00	0.00
16,500.0	89.70	179.57	12,489.5	-4,071.6	-269.2	4,074.5	0.00	0.00	0.00
16,600.0	89.70	179.57	12,490.1	-4,171.6	-268.4	4,174.5	0.00	0.00	0.00
16,700.0	89.70	179.57	12,490.6	-4,271.6	-267.7	4,274.5	0.00	0.00	0.00
16,800.0	89.70	179.57	12,491.1	-4,371.6	-266.9	4,374.5	0.00	0.00	0.00
16,900.0	89.70	179.57	12,491.7	-4,471.6	-266.1	4,474.4	0.00	0.00	0.00
17,000.0	89.70	179.57	12,492.2	-4,571.6	-265.4	4,574.4	0.00	0.00	0.00
17,100.0	89.70	179.57	12,492.7	-4,671.6	-264.6	4,674.4	0.00	0.00	0.00
17,200.0	89.70	179.57	12,493.2	-4,771.6	-263.9	4,774.4	0.00	0.00	0.00
17,300.0	89.70	179.57	12,493.8	-4,871.6	-263.1	4,874.4	0.00	0.00	0.00
17,400.0	89.70	179.57	12,494.3	-4,971.6	-262.4	4,974.3	0.00	0.00	0.00
17,500.0	89.70	179.57	12,494.8	-5,071.6	-261.6	5,074.3	0.00	0.00	0.00
17,600.0	89.70	179.57	12,495.3	-5,171.6	-260.9	5,174.3	0.00	0.00	0.00
17,700.0	89.70	179.57	12,495.9	-5,271.6	-260.1	5,274.3	0.00	0.00	0.00
17,800.0	89.70	179.57	12,496.4	-5,371.6	-259.4	5,374.3	0.00	0.00	0.00
17,900.0	89.70	179.57	12,496.9	-5,471.6	-258.6	5,474.2	0.00	0.00	0.00
18,000.0	89.70	179.57	12,497.5	-5,571.6	-257.8	5,574.2	0.00	0.00	0.00
18,100.0	89.70	179.57	12,498.0	-5,671.6	-257.1	5,674.2	0.00	0.00	0.00
18,200.0	89.70	179.57	12,498.5	-5,771.6	-256.3	5,774.2	0.00	0.00	0.00
18,300.0	89.70	179.57	12,499.0	-5,871.6	-255.6	5,874.2	0.00	0.00	0.00
18,400.0	89.70	179.57	12,499.6	-5,971.6	-254.8	5,974.1	0.00	0.00	0.00
18,500.0	89.70	179.57	12,500.1	-6,071.5	-254.1	6,074.1	0.00	0.00	0.00
18,600.0	89.70	179.57	12,500.6	-6,171.5	-253.3	6,174.1	0.00	0.00	0.00
18,700.0	89.70	179.57	12,501.2	-6,271.5	-252.6	6,274.1	0.00	0.00	0.00
18,800.0	89.70	179.57	12,501.7	-6,371.5	-251.8	6,374.1	0.00	0.00	0.00
18,900.0	89.70	179.57	12,502.2	-6,471.5	-251.1	6,474.0	0.00	0.00	0.00
19,000.0	89.70	179.57	12,502.7	-6,571.5	-250.3	6,574.0	0.00	0.00	0.00
19,100.0	89.70	179.57	12,503.3	-6,671.5	-249.6	6,674.0	0.00	0.00	0.00
19,200.0	89.70	179.57	12,503.8	-6,771.5	-248.8	6,774.0	0.00	0.00	0.00
19,300.0	89.70	179.57	12,504.3	-6,871.5	-248.0	6,874.0	0.00	0.00	0.00
19,400.0	89.70	179.57	12,504.9	-6,971.5	-247.3	6,973.9	0.00	0.00	0.00
19,500.0	89.70	179.57	12,505.4	-7,071.5	-246.5	7,073.9	0.00	0.00	0.00
19,600.0	89.70	179.57	12,505.9	-7,171.5	-245.8	7,173.9	0.00	0.00	0.00
19,700.0	89.70	179.57	12,506.4	-7,271.5	-245.0	7,273.9	0.00	0.00	0.00
19,800.0	89.70	179.57	12,507.0	-7,371.5	-244.3	7,373.9	0.00	0.00	0.00
19,900.0	89.70	179.57	12,507.5	-7,471.5	-243.5	7,473.8	0.00	0.00	0.00
20,000.0	89.70	179.57	12,508.0	-7,571.5	-242.8	7,573.8	0.00	0.00	0.00
20,100.0	89.70	179.57	12,508.5	-7,671.5	-242.0	7,673.8	0.00	0.00	0.00
20,200.0	89.70	179.57	12,509.1	-7,771.5	-241.3	7,773.8	0.00	0.00	0.00
20,300.0	89.70	179.57	12,509.6	-7,871.5	-240.5	7,873.8	0.00	0.00	0.00
20,400.0	89.70	179.57	12,510.1	-7,971.5	-239.7	7,973.7	0.00	0.00	0.00
20,500.0	89.70	179.57	12,510.7	-8,071.5	-239.0	8,073.7	0.00	0.00	0.00
20,600.0	89.70	179.57	12,511.2	-8,171.5	-238.2	8,173.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,700.0	89.70	179.57	12,511.7	-8,271.5	-237.5	8,273.7	0.00	0.00	0.00
20,800.0	89.70	179.57	12,512.2	-8,371.5	-236.7	8,373.7	0.00	0.00	0.00
20,900.0	89.70	179.57	12,512.8	-8,471.4	-236.0	8,473.6	0.00	0.00	0.00
21,000.0	89.70	179.57	12,513.3	-8,571.4	-235.2	8,573.6	0.00	0.00	0.00
21,100.0	89.70	179.57	12,513.8	-8,671.4	-234.5	8,673.6	0.00	0.00	0.00
21,200.0	89.70	179.57	12,514.4	-8,771.4	-233.7	8,773.6	0.00	0.00	0.00
21,300.0	89.70	179.57	12,514.9	-8,871.4	-233.0	8,873.6	0.00	0.00	0.00
21,400.0	89.70	179.57	12,515.4	-8,971.4	-232.2	8,973.5	0.00	0.00	0.00
21,500.0	89.70	179.57	12,515.9	-9,071.4	-231.4	9,073.5	0.00	0.00	0.00
21,600.0	89.70	179.57	12,516.5	-9,171.4	-230.7	9,173.5	0.00	0.00	0.00
21,700.0	89.70	179.57	12,517.0	-9,271.4	-229.9	9,273.5	0.00	0.00	0.00
21,800.0	89.70	179.57	12,517.5	-9,371.4	-229.2	9,373.5	0.00	0.00	0.00
21,900.0	89.70	179.57	12,518.1	-9,471.4	-228.4	9,473.4	0.00	0.00	0.00
22,000.0	89.70	179.57	12,518.6	-9,571.4	-227.7	9,573.4	0.00	0.00	0.00
22,100.0	89.70	179.57	12,519.1	-9,671.4	-226.9	9,673.4	0.00	0.00	0.00
22,200.0	89.70	179.57	12,519.6	-9,771.4	-226.2	9,773.4	0.00	0.00	0.00
22,300.0	89.70	179.57	12,520.2	-9,871.4	-225.4	9,873.4	0.00	0.00	0.00
22,400.0	89.70	179.57	12,520.7	-9,971.4	-224.7	9,973.3	0.00	0.00	0.00
22,500.0	89.70	179.57	12,521.2	-10,071.4	-223.9	10,073.3	0.00	0.00	0.00
22,600.0	89.70	179.57	12,521.8	-10,171.4	-223.2	10,173.3	0.00	0.00	0.00
22,700.0	89.70	179.57	12,522.3	-10,271.4	-222.4	10,273.3	0.00	0.00	0.00
22,800.0	89.70	179.57	12,522.8	-10,371.4	-221.6	10,373.3	0.00	0.00	0.00
22,900.0	89.70	179.57	12,523.3	-10,471.4	-220.9	10,473.2	0.00	0.00	0.00
23,000.0	89.70	179.57	12,523.9	-10,571.4	-220.1	10,573.2	0.00	0.00	0.00
23,100.0	89.70	179.57	12,524.4	-10,671.4	-219.4	10,673.2	0.00	0.00	0.00
23,200.0	89.70	179.57	12,524.9	-10,771.3	-218.6	10,773.2	0.00	0.00	0.00
23,300.0	89.70	179.57	12,525.4	-10,871.3	-217.9	10,873.2	0.00	0.00	0.00
23,400.0	89.70	179.57	12,526.0	-10,971.3	-217.1	10,973.1	0.00	0.00	0.00
23,500.0	89.70	179.57	12,526.5	-11,071.3	-216.4	11,073.1	0.00	0.00	0.00
23,600.0	89.70	179.57	12,527.0	-11,171.3	-215.6	11,173.1	0.00	0.00	0.00
23,700.0	89.70	179.57	12,527.6	-11,271.3	-214.9	11,273.1	0.00	0.00	0.00
23,800.0	89.70	179.57	12,528.1	-11,371.3	-214.1	11,373.1	0.00	0.00	0.00
23,900.0	89.70	179.57	12,528.6	-11,471.3	-213.3	11,473.0	0.00	0.00	0.00
24,000.0	89.70	179.57	12,529.1	-11,571.3	-212.6	11,573.0	0.00	0.00	0.00
24,100.0	89.70	179.57	12,529.7	-11,671.3	-211.8	11,673.0	0.00	0.00	0.00
24,200.0	89.70	179.57	12,530.2	-11,771.3	-211.1	11,773.0	0.00	0.00	0.00
24,300.0	89.70	179.57	12,530.7	-11,871.3	-210.3	11,873.0	0.00	0.00	0.00
24,400.0	89.70	179.57	12,531.3	-11,971.3	-209.6	11,972.9	0.00	0.00	0.00
24,500.0	89.70	179.57	12,531.8	-12,071.3	-208.8	12,072.9	0.00	0.00	0.00
24,600.0	89.70	179.57	12,532.3	-12,171.3	-208.1	12,172.9	0.00	0.00	0.00
24,700.0	89.70	179.57	12,532.8	-12,271.3	-207.3	12,272.9	0.00	0.00	0.00
24,800.0	89.70	179.57	12,533.4	-12,371.3	-206.6	12,372.9	0.00	0.00	0.00
24,900.0	89.70	179.57	12,533.9	-12,471.3	-205.8	12,472.8	0.00	0.00	0.00
25,000.0	89.70	179.57	12,534.4	-12,571.3	-205.0	12,572.8	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
25,100.0	89.70	179.57	12,535.0	-12,671.3	-204.3	12,672.8	0.00	0.00	0.00
25,200.0	89.70	179.57	12,535.5	-12,771.3	-203.5	12,772.8	0.00	0.00	0.00
25,300.0	89.70	179.57	12,536.0	-12,871.3	-202.8	12,872.8	0.00	0.00	0.00
25,400.0	89.70	179.57	12,536.5	-12,971.3	-202.0	12,972.7	0.00	0.00	0.00
25,500.0	89.70	179.57	12,537.1	-13,071.3	-201.3	13,072.7	0.00	0.00	0.00
25,600.0	89.70	179.57	12,537.6	-13,171.2	-200.5	13,172.7	0.00	0.00	0.00
25,700.0	89.70	179.57	12,538.1	-13,271.2	-199.8	13,272.7	0.00	0.00	0.00
25,800.0	89.70	179.57	12,538.6	-13,371.2	-199.0	13,372.7	0.00	0.00	0.00
25,900.0	89.70	179.57	12,539.2	-13,471.2	-198.3	13,472.6	0.00	0.00	0.00
26,000.0	89.70	179.57	12,539.7	-13,571.2	-197.5	13,572.6	0.00	0.00	0.00
26,100.0	89.70	179.57	12,540.2	-13,671.2	-196.8	13,672.6	0.00	0.00	0.00
26,200.0	89.70	179.57	12,540.8	-13,771.2	-196.0	13,772.6	0.00	0.00	0.00
26,300.0	89.70	179.57	12,541.3	-13,871.2	-195.2	13,872.6	0.00	0.00	0.00
26,400.0	89.70	179.57	12,541.8	-13,971.2	-194.5	13,972.5	0.00	0.00	0.00
26,500.0	89.70	179.57	12,542.3	-14,071.2	-193.7	14,072.5	0.00	0.00	0.00
26,600.0	89.70	179.57	12,542.9	-14,171.2	-193.0	14,172.5	0.00	0.00	0.00
26,700.0	89.70	179.57	12,543.4	-14,271.2	-192.2	14,272.5	0.00	0.00	0.00
26,800.0	89.70	179.57	12,543.9	-14,371.2	-191.5	14,372.5	0.00	0.00	0.00
26,900.0	89.70	179.57	12,544.5	-14,471.2	-190.7	14,472.4	0.00	0.00	0.00
27,000.0	89.70	179.57	12,545.0	-14,571.2	-190.0	14,572.4	0.00	0.00	0.00
27,100.0	89.70	179.57	12,545.5	-14,671.2	-189.2	14,672.4	0.00	0.00	0.00
27,200.0	89.70	179.57	12,546.0	-14,771.2	-188.5	14,772.4	0.00	0.00	0.00
27,300.0	89.70	179.57	12,546.6	-14,871.2	-187.7	14,872.4	0.00	0.00	0.00
27,400.0	89.70	179.57	12,547.1	-14,971.2	-186.9	14,972.3	0.00	0.00	0.00
27,500.0	89.70	179.57	12,547.6	-15,071.2	-186.2	15,072.3	0.00	0.00	0.00
27,600.0	89.70	179.57	12,548.2	-15,171.2	-185.4	15,172.3	0.00	0.00	0.00
27,700.0	89.70	179.57	12,548.7	-15,271.2	-184.7	15,272.3	0.00	0.00	0.00
27,800.0	89.70	179.57	12,549.2	-15,371.2	-183.9	15,372.3	0.00	0.00	0.00
27,900.0	89.70	179.57	12,549.7	-15,471.1	-183.2	15,472.2	0.00	0.00	0.00
27,949.7	89.70	179.57	12,550.0	-15,520.8	-182.8	15,521.9	0.00	0.00	0.00
TD at 27949.7									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	KB=30' @ 3746.4usft (SCAN QUEST)
Well:	MEAT LOVER FED COM #603H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

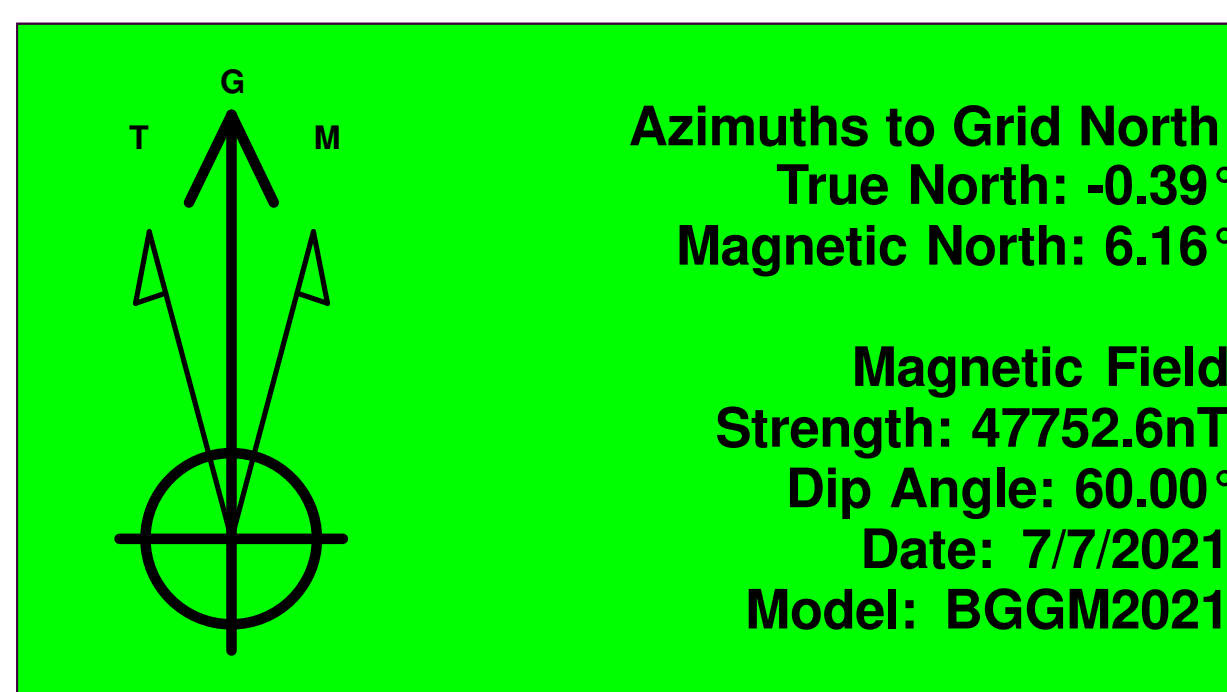
Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (MEAT LOVER F - plan misses target center by 223.3usft at 12371.2usft MD (12308.6 TVD, 14.7 N, -300.0 E) - Circle (radius 50.0)	0.00	0.00	12,470.0	169.0	-301.3	477,844.30	724,166.30	32° 18' 41.848 N	103° 36' 27.891 W
LTP (MEAT LOVER F - plan misses target center by 0.3usft at 27899.7usft MD (12549.7 TVD, -15470.8 N, -183.2 E) - Point	0.00	0.00	12,550.0	-15,470.8	-183.2	462,204.50	724,284.40	32° 16' 7.077 N	103° 36' 27.748 W
PBHL (MEAT LOVER - plan hits target center - Rectangle (sides W100.0 H15,740.0 D20.0)	-0.30	359.57	12,550.0	-15,520.8	-182.8	462,154.50	724,284.80	32° 16' 6.582 N	103° 36' 27.747 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2750	2750	6	-9	Start 3705.6 hold at 2750.0 MD
6456	6441	177	-283	Start Drop -1.00
6956	6941	189	-301	Start 4956.5 hold at 6955.6 MD
11,912	11,897	189	-301	Start DLS 10.00 TFO 179.57
12,809	12,470	-381	-297	Start 15140.5 hold at 12809.1 MD
27,950	12,550	-15,521	-183	TD at 27949.7

Checked By: _____ Approved By: _____ Date: _____



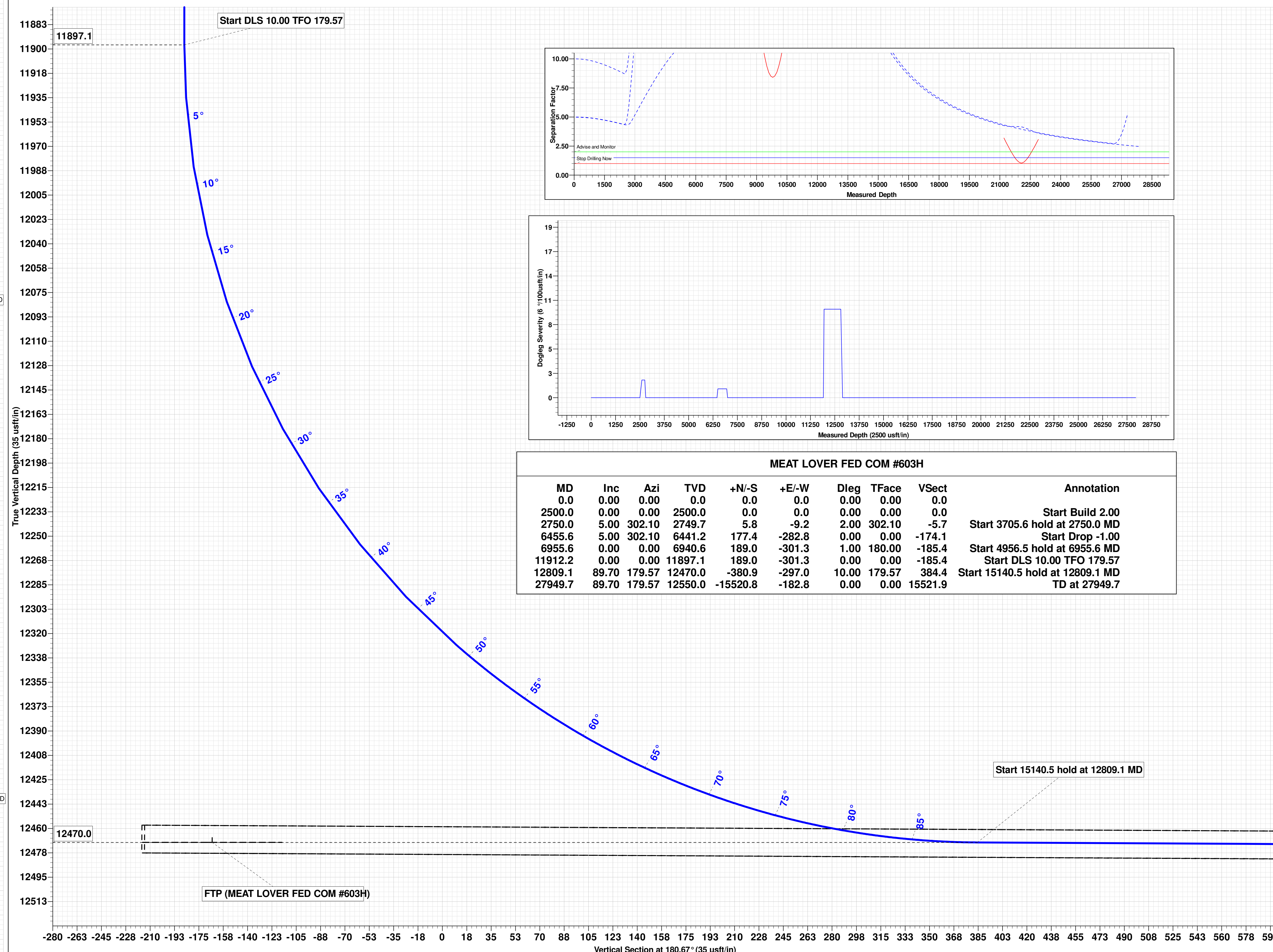
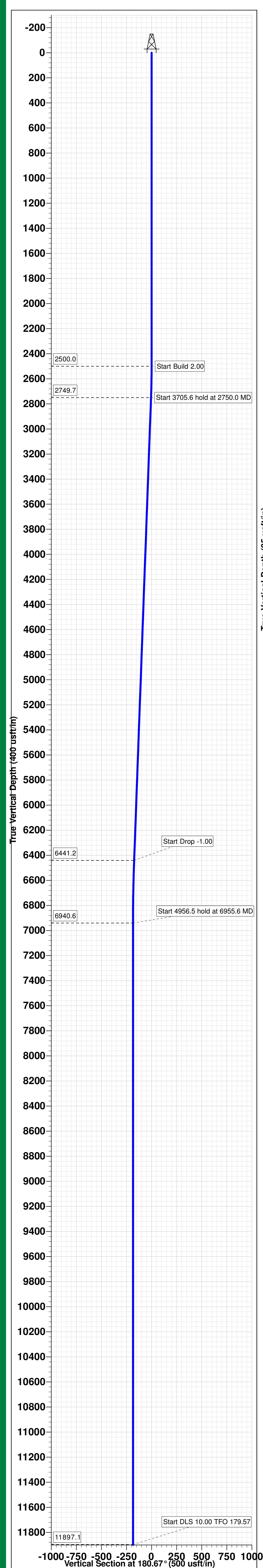
Project: BULLDOG PROSPECT (NM-E)
Site: MEAT LOVER FED COM PROJECT
Well: MEAT LOVER FED COM #603H
Wellbore: OWB
Design: PWP2
GL: 3716.4
KB=30' @ 3746.4usft (SCAN QUEST)

WELL DETAILS: MEAT LOVER FED COM #603H

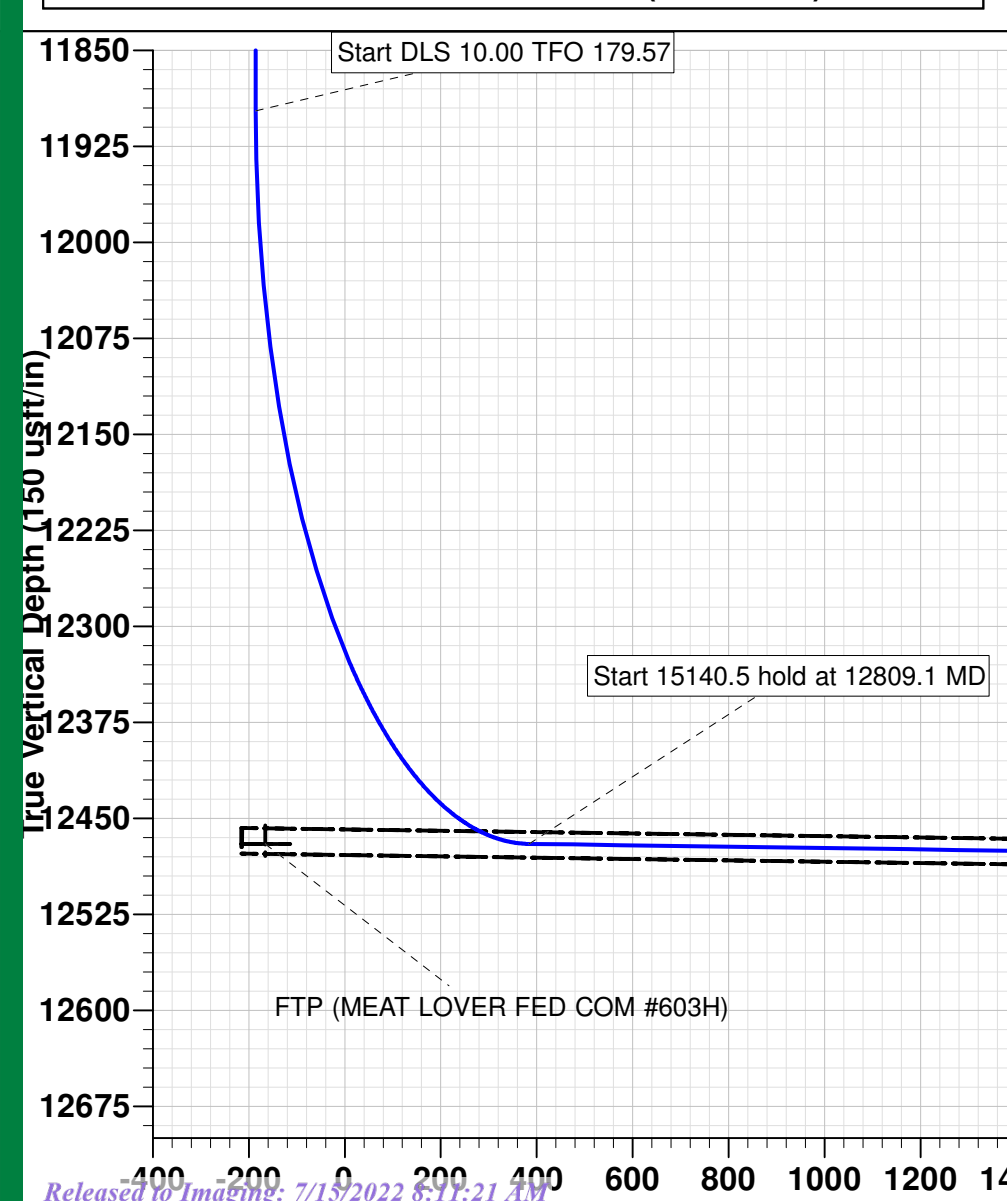
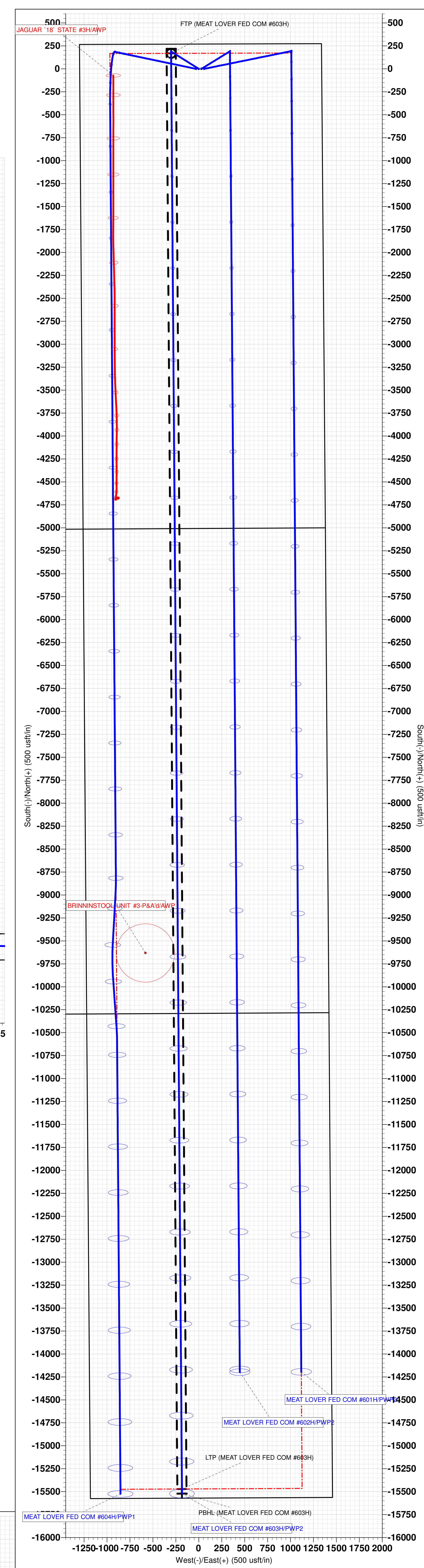
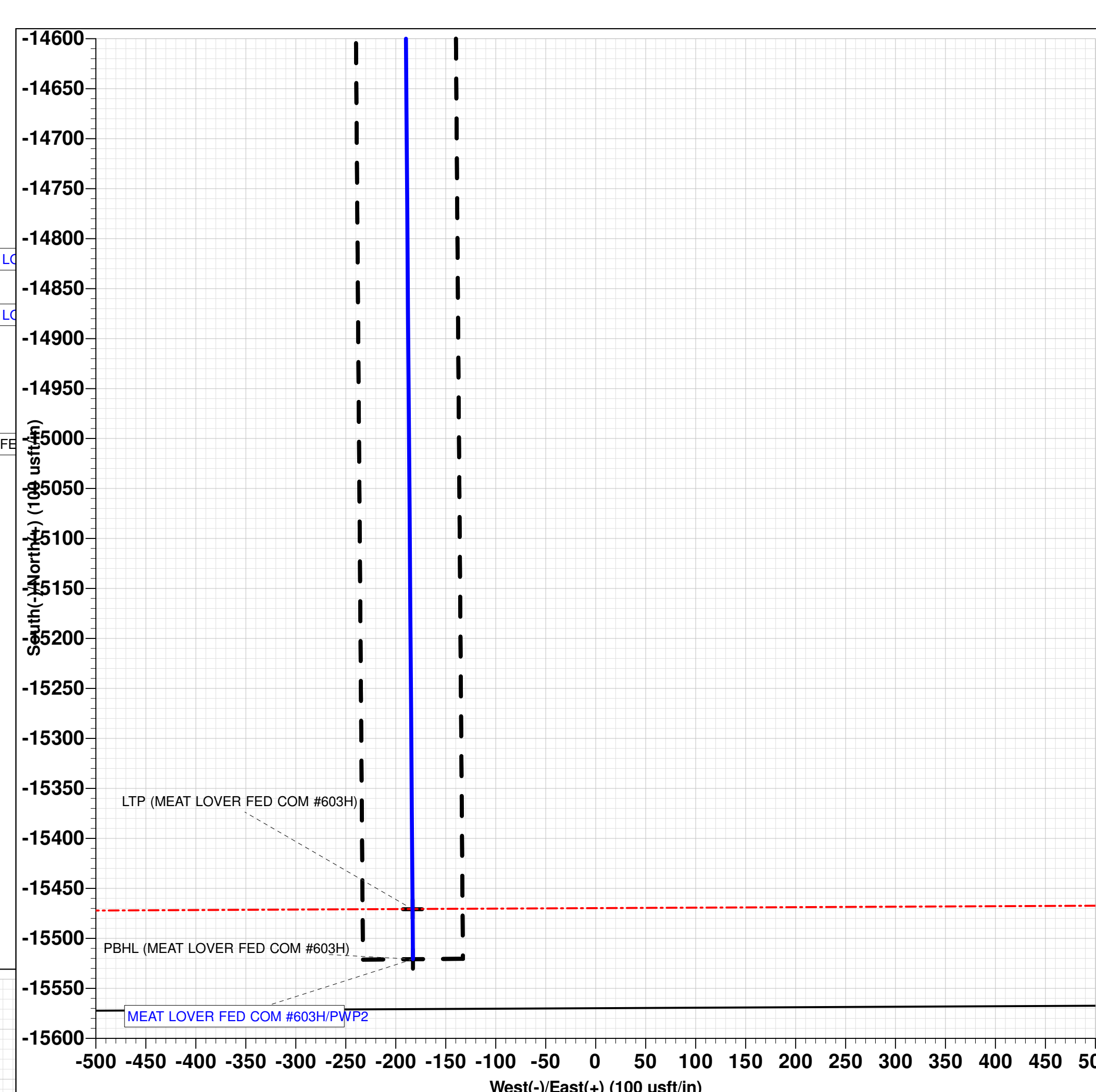
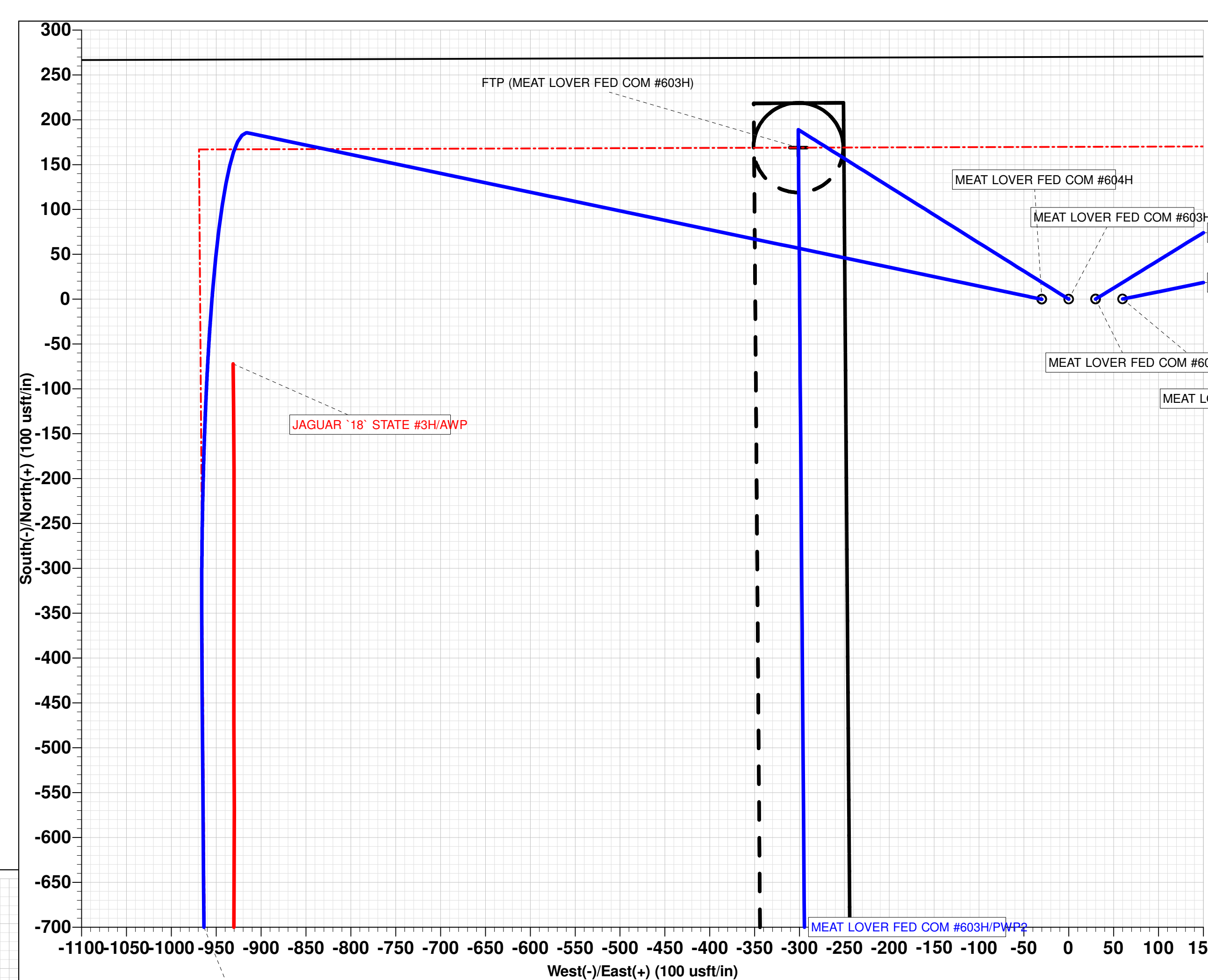
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	477675.30	724467.60	32° 18' 40.156 N	103° 36' 24.394 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (MEAT LOVER FED COM #603H)	12470.0	169.0	-301.3	477844.30	724166.30	32° 18' 41.848 N	103° 36' 27.891 W
LTP (MEAT LOVER FED COM #603H)	12550.0	-15470.8	-183.2	462204.50	724284.40	32° 16' 7.077 N	103° 36' 27.748 W
PBHL (MEAT LOVER FED COM #603H)	12550.0	-15520.8	-182.8	462154.50	724284.80	32° 16' 6.582 N	103° 36' 27.747 W



MEAT LOVER FED COM #603H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.0	0.00	0.0	Start Build 2.00
2750.0	5.00	302.10	2749.7	5.8	-9.2	2.00	302.10	-5.7	Start 3705.6 hold at 2750.0 MD
6455.6	5.00	302.10	6441.2	177.4	-282.8	0.00	0.00	-174.1	Start Drop -1.00
6955.6	0.00	0.00	6940.6	188.0	-301.3	1.00	180.00	-185.4	Start 4955.6 hold at 6955.6 MD
11912.2	0.00	0.00	11897.1	183.0	-307.3	0.00	0.00	-185.4	Start DLS 10.00 TD 179.57
12809.1	89.70	179.57	12470.0	-380.9	-297.0	10.00	179.57	384.4	Start 15140.5 hold at 12809.1 MD
27949.7	89.70	179.57	12550.0	-15520.8	-182.8	0.00	0.00	15521.9	TD at 27949.7



MEAT LOVER FED COM #604H/PWP1

PBHL (MEAT LOVER FED COM #

MEAT LOVER FED COM #603H/PWF

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 121996

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 121996
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/15/2022