

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. [332964]
2. Name of Operator [229137]		9. API Well No. 30-025-50279
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [98177] XXXX
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval 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.
 Conditions of approval, if any, are attached.

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.

NGMP Rec 05/26/2022

SL

(Continued on page 2)



KZ
06/27/2022

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 270 FNL / 1310 FEL / TWSP: 23S / RANGE: 33E / SECTION: 18 / LAT: 32.311278 / LONG: -103.607162 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 1 FNL / 1000 FEL / TWSP: 23S / RANGE: 33E / SECTION: 19 / LAT: 32.297511 / LONG: -103.606145 (TVD: 12492 feet, MD: 17600 feet)

PPP: NENE / 100 FNL / 1000 FEL / TWSP: 23S / RANGE: 33E / SECTION: 18 / LAT: 32.311742 / LONG: -103.606159 (TVD: 12308 feet, MD: 12371 feet)

BHL: SESE / 1370 FSL / 1000 FEL / TWSP: 23S / RANGE: 33E / SECTION: 30 / LAT: 32.272244 / LONG: -103.60612 (TVD: 12535 feet, MD: 26629 feet)

BLM Point of Contact

Name: Gavin Mickwee

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMLC0068848
LOCATION:	Section 18, T.23 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Meat Lover Fed Com 602H
SURFACE HOLE FOOTAGE:	270'/N & 1310'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1000'/E

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1390** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is: Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 22%. Additional cement maybe required.**
Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS031622

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- 50279	Pool Code 98135 98177	Pool Name WC-025 G-09 S223332A; UPR WOLFCAMP
Property Code 332964	Property Name MEAT LOVER FEDERAL COM	Well Number 602H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3716.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	23-S	33-E		270	NORTH	1310	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
I	30	23-S	33-E		1370	SOUTH	1000	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

NAD 83 NME <u>SURFACE LOCATION</u> Y=477735.1 N X=765680.9 E LAT.=32.311278" N LONG.=103.607162" W <table border="1"> <thead> <tr> <th colspan="2">POINT LEGEND</th> </tr> </thead> <tbody> <tr><td>1</td><td>Y=478009.2 N X=766988.7 E</td></tr> <tr><td>2</td><td>Y=475375.3 N X=767010.1 E</td></tr> <tr><td>3</td><td>Y=472734.4 N X=767030.7 E</td></tr> <tr><td>4</td><td>Y=470093.2 N X=767050.5 E</td></tr> <tr><td>5</td><td>Y=467452.4 N X=767070.1 E</td></tr> <tr><td>6</td><td>Y=464812.8 N X=767089.5 E</td></tr> <tr><td>7</td><td>Y=462171.8 N X=767108.8 E</td></tr> <tr><td>8</td><td>Y=462158.9 N X=764470.6 E</td></tr> <tr><td>9</td><td>Y=467438.7 N X=764429.6 E</td></tr> <tr><td>10</td><td>Y=472720.5 N X=764390.1 E</td></tr> <tr><td>11</td><td>Y=478000.9 N X=764351.0 E</td></tr> </tbody> </table> NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=463536.9 N X=766098.8 E LAT.=32.272244" N LONG.=103.606120" W	POINT LEGEND		1	Y=478009.2 N X=766988.7 E	2	Y=475375.3 N X=767010.1 E	3	Y=472734.4 N X=767030.7 E	4	Y=470093.2 N X=767050.5 E	5	Y=467452.4 N X=767070.1 E	6	Y=464812.8 N X=767089.5 E	7	Y=462171.8 N X=767108.8 E	8	Y=462158.9 N X=764470.6 E	9	Y=467438.7 N X=764429.6 E	10	Y=472720.5 N X=764390.1 E	11	Y=478000.9 N X=764351.0 E	LOT 1 11 270' S.L. 39.72 Ac LOT 2 39.19 Ac LOT 3 38.79 Ac 38.26 Ac SECTION 18 SECTION 19 LOT 1 10 37.95 Ac LOT 2 37.96 Ac LOT 3 37.97 Ac LOT 4 37.99 Ac SECTION 19 SECTION 30 LOT 1 9 37.99 Ac LOT 2 38.00 Ac LOT 3 38.00 Ac LOT 4 38.00 Ac FTP 100' FNL & 1000' FEL Y=477906.0 N X=765989.5 E LAT.=32.311742" N LONG.=103.606159" W GRID AZ. TO FTP 61°01'06" LEASE X-ING LAT.=32.297511" N LONG.=103.606145" W LEASE X-ING LAT.=32.282992" N LONG.=103.606132" W LTP 1420' FSL & 1000' FEL Y=463586.9 N X=766098.4 E LAT.=32.272381" N LONG.=103.606121" W B.H.L. 1370'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 4/18/2022 Signature Date Stan Wagner Printed Name E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 28, 2021 Date of Survey Signature & Seal of Professional Surveyor <i>Chad L. Harcrow</i> 4/7/22 Certificate No. CHAD HARCROW 17777 W.O. # 22-233 DRAWN BY: WN
POINT LEGEND																										
1	Y=478009.2 N X=766988.7 E																									
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State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 239137

Date: 08/18/2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Meat Lover Fed Com 601H	30-025-	A-18-23S-33E	270 FNL & 1280 FEL	± 1400	± 2240	± 4900
Meat Lover Fed Com 602H	30-025- 50279	A-18-23S-33E	270 FNL & 1310 FEL	± 1400	± 2240	± 4900
Meat Lover Fed Com 603H	30-025-	B-18-23S-33E	270 FNL & 1340 FEL	± 1400	± 2240	± 4900
Meat Lover Fed Com 604H	30-025-	B-18-23S-33E	270 FNL & 1370 FEL	± 1400	± 2240	± 4900

IV. Central Delivery Point Name: Meat Lover Fed Com 18 B CTB 210 FNL & 2240 FEL 18-23S-33E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Meat Lover Fed Com	Pending	± 6/1/2024	± 25 days from spud	TBD	TBD	TBD
601H, 602H, 603H, 604H	30-025-50279					

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

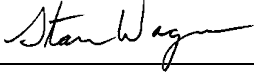
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 08/18/2021
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

ConocoPhillips - Meat Lover Fed Com 602H

1. Geologic Formations

TVD of target	12,470' EOL	Pilot hole depth	NA
MD at TD:	26,629'	Deepest expected fresh water:	345'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1311	Water	
Top of Salt	1805	Salt	
Base of Salt	4789	Salt	
Lamar	5075	Salt Water	
Bell Canyon	5149	Salt Water	
Cherry Canyon	5954	Oil/Gas	
Brushy Canyon	7423	Oil/Gas	
Bone Spring Lime	8893	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	26,629	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.

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	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
	1446	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.
---	---

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
---	-----------------------------

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	

ConocoPhillips - Meat Lover Fed Com 602H**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

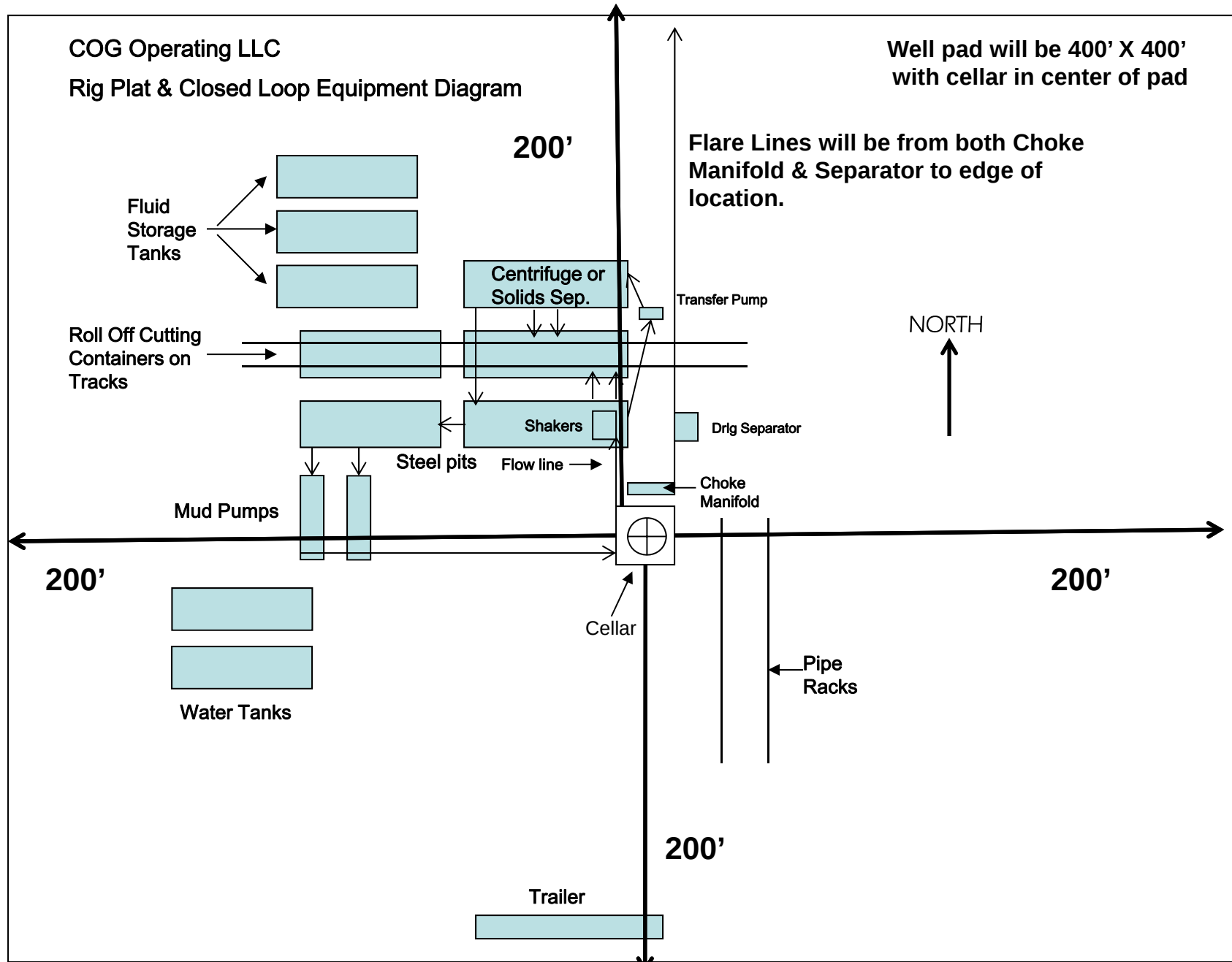


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

MEAT LOVER FED COM PROJECT

MEAT LOVER FED COM #602H

OWB

PWP2

Anticollision Report

25 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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	4/25/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,912.4	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,912.4	26,629.0	PWP2 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station 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	22,054.9	12,484.0	994.7	666.0	3.026	CC, ES, SF
MEAT LOVER FED COM #601H - OWB - PWP2	2,500.0	2,499.3	30.0	23.1	4.350	CC, ES
MEAT LOVER FED COM #601H - OWB - PWP2	26,629.0	26,691.3	670.1	447.6	3.013	SF
MEAT LOVER FED COM #603H - OWB - PWP1	2,500.0	2,499.9	30.0	23.1	4.350	CC, ES
MEAT LOVER FED COM #603H - OWB - PWP1	26,629.0	26,631.0	650.3	414.1	2.753	SF
MEAT LOVER FED COM #604H - OWB - PWP1	2,500.0	2,499.7	59.9	53.0	8.686	CC, ES, SF

TD 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	26,629.0	12,505.6				Out of Range @TD
MEAT LOVER FED COM #601H - OWB - PWP2	26,629.0	26,691.3	670.1	447.6	3.013	SF
MEAT LOVER FED COM #603H - OWB - PWP1	26,629.0	26,631.0	650.3	414.1	2.753	SF
MEAT LOVER FED COM #604H - OWB - PWP1	26,629.0	26,666.3				Out of Range @TD

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 - BRINNINSTOOL UNIT #3-P&A'd - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 15760-INC-ONLY														Offset Well Error:	5.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				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			
22,000.0	12,513.3	12,483.8	12,483.8	75.9	252.4	89.99	-9,631.3	-611.3	996.2	668.0	328.25	3.035			
22,054.9	12,513.5	12,484.0	12,484.0	76.3	252.4	90.00	-9,631.3	-611.3	994.7	666.0	328.74	3.026	CC, ES, SF		
22,100.0	12,513.7	12,484.2	12,484.2	76.7	252.4	90.01	-9,631.3	-611.3	995.7	666.7	328.99	3.027			

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	89.81		0.1	30.0	30.0					
100.0	100.0	99.3	99.3	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.00	5.000		
200.0	200.0	199.3	199.3	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.00	4.998		
300.0	300.0	299.3	299.3	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.01	4.993		
400.0	400.0	399.3	399.3	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.02	4.985		
500.0	500.0	499.3	499.3	3.1	3.1	89.81		0.1	30.0	30.0	24.0	6.03	4.975		
600.0	600.0	599.3	599.3	3.1	3.1	89.81		0.1	30.0	30.0	24.0	6.05	4.962		
700.0	700.0	699.3	699.3	3.1	3.1	89.81		0.1	30.0	30.0	23.9	6.07	4.946		
800.0	800.0	799.3	799.3	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.09	4.929		
900.0	900.0	899.3	899.3	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.11	4.908		
1,000.0	1,000.0	999.3	999.3	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.14	4.886		
1,100.0	1,100.0	1,099.3	1,099.3	3.3	3.3	89.81		0.1	30.0	30.0	23.8	6.17	4.861		
1,200.0	1,200.0	1,199.3	1,199.3	3.4	3.4	89.81		0.1	30.0	30.0	23.8	6.21	4.834		
1,300.0	1,300.0	1,299.3	1,299.3	3.4	3.4	89.81		0.1	30.0	30.0	23.8	6.24	4.806		
1,400.0	1,400.0	1,399.3	1,399.3	3.5	3.5	89.81		0.1	30.0	30.0	23.7	6.28	4.775		
1,500.0	1,500.0	1,499.3	1,499.3	3.5	3.5	89.81		0.1	30.0	30.0	23.7	6.33	4.743		
1,600.0	1,600.0	1,599.3	1,599.3	3.6	3.6	89.81		0.1	30.0	30.0	23.6	6.37	4.709		
1,700.0	1,700.0	1,699.3	1,699.3	3.7	3.7	89.81		0.1	30.0	30.0	23.6	6.42	4.673		
1,800.0	1,800.0	1,799.3	1,799.3	3.8	3.8	89.81		0.1	30.0	30.0	23.5	6.47	4.637		
1,900.0	1,900.0	1,899.3	1,899.3	3.9	3.9	89.81		0.1	30.0	30.0	23.5	6.52	4.598		
2,000.0	2,000.0	1,999.3	1,999.3	3.9	3.9	89.81		0.1	30.0	30.0	23.4	6.58	4.559		
2,100.0	2,100.0	2,099.3	2,099.3	4.0	4.0	89.81		0.1	30.0	30.0	23.4	6.64	4.519		
2,200.0	2,200.0	2,199.3	2,199.3	4.1	4.1	89.81		0.1	30.0	30.0	23.3	6.70	4.478		
2,300.0	2,300.0	2,299.3	2,299.3	4.2	4.2	89.81		0.1	30.0	30.0	23.2	6.76	4.436		
2,400.0	2,400.0	2,399.3	2,399.3	4.3	4.3	89.81		0.1	30.0	30.0	23.2	6.83	4.393		
2,500.0	2,500.0	2,499.3	2,499.3	4.4	4.4	89.81		0.1	30.0	30.0	23.1	6.90	4.350 CC, ES		
2,600.0	2,600.0	2,598.3	2,598.3	4.5	4.5	32.56		0.4	31.7	30.2	23.2	6.96	4.334		
2,700.0	2,699.8	2,697.2	2,697.1	4.5	4.5	35.70		1.5	36.7	30.9	23.8	7.03	4.387		
2,750.0	2,749.7	2,746.7	2,746.4	4.6	4.5	37.95		2.2	40.4	31.4	24.4	7.07	4.443		
2,800.0	2,799.5	2,796.2	2,795.6	4.6	4.6	40.11		3.1	45.0	32.5	25.4	7.11	4.571		
2,900.0	2,899.1	2,894.9	2,893.7	4.7	4.6	42.39		5.5	56.6	37.2	30.0	7.19	5.174		
3,000.0	2,998.7	2,993.3	2,990.9	4.8	4.7	42.40		8.5	71.5	45.1	37.8	7.26	6.213		
3,100.0	3,098.4	3,092.7	3,088.8	4.8	4.7	41.63		12.0	88.4	54.8	47.5	7.34	7.468		
3,200.0	3,198.0	3,192.3	3,186.8	4.9	4.8	41.09		15.4	105.4	64.5	57.1	7.43	8.687		
3,300.0	3,297.6	3,291.8	3,284.8	5.0	4.8	40.69		18.9	122.3	74.2	66.7	7.52	9.865		
3,400.0	3,397.2	3,391.3	3,382.8	5.1	4.9	40.39		22.3	139.2	83.9	76.3	7.63	11.003		
3,500.0	3,496.8	3,490.9	3,480.9	5.1	5.0	40.14		25.8	156.2	93.6	85.9	7.74	12.100		
3,600.0	3,596.4	3,590.4	3,578.9	5.2	5.0	39.95		29.2	173.1	103.3	95.5	7.86	13.154		
3,700.0	3,696.1	3,689.9	3,676.9	5.3	5.1	39.78		32.6	190.0	113.1	105.1	7.98	14.167		
3,800.0	3,795.7	3,789.4	3,774.9	5.4	5.2	39.64		36.1	207.0	122.8	114.7	8.11	15.138		
3,900.0	3,895.3	3,889.0	3,872.9	5.5	5.3	39.53		39.5	223.9	132.5	124.2	8.25	16.068		
4,000.0	3,994.9	3,988.5	3,970.9	5.6	5.4	39.43		43.0	240.9	142.2	133.8	8.39	16.957		
4,100.0	4,094.5	4,088.0	4,068.9	5.7	5.5	39.34		46.4	257.8	151.9	143.4	8.53	17.807		
4,200.0	4,194.2	4,187.5	4,167.0	5.8	5.5	39.26		49.9	274.7	161.6	153.0	8.68	18.618		
4,300.0	4,293.8	4,287.1	4,265.0	5.9	5.6	39.19		53.3	291.7	171.4	162.5	8.84	19.392		
4,400.0	4,393.4	4,386.6	4,363.0	6.0	5.7	39.13		56.7	308.6	181.1	172.1	9.00	20.130		
4,500.0	4,493.0	4,486.1	4,461.0	6.1	5.8	39.07		60.2	325.5	190.8	181.6	9.16	20.833		
4,600.0	4,592.6	4,585.6	4,559.0	6.2	5.9	39.02		63.6	342.5	200.5	191.2	9.32	21.502		
4,700.0	4,692.3	4,685.2	4,657.0	6.3	6.0	38.98		67.1	359.4	210.2	200.7	9.50	22.140		
4,800.0	4,791.9	4,784.7	4,755.1	6.4	6.1	38.94		70.5	376.3	219.9	210.3	9.67	22.747		
4,900.0	4,891.5	4,884.2	4,853.1	6.5	6.2	38.90		74.0	393.3	229.7	219.8	9.85	23.324		
5,000.0	4,991.1	4,983.8	4,951.1	6.6	6.3	38.87		77.4	410.2	239.4	229.4	10.03	23.874		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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)				
5,100.0	5,090.7	5,083.3	5,049.1	6.7	6.5	38.83	80.9	427.2	249.1	238.9	10.21	24.397		
5,200.0	5,190.4	5,182.8	5,147.1	6.8	6.6	38.80	84.3	444.1	258.8	248.4	10.40	24.894		
5,300.0	5,290.0	5,282.3	5,245.1	6.9	6.7	38.78	87.7	461.0	268.5	257.9	10.59	25.368		
5,400.0	5,389.6	5,381.9	5,343.1	7.0	6.8	38.75	91.2	478.0	278.2	267.5	10.78	25.818		
5,500.0	5,489.2	5,481.4	5,441.2	7.1	6.9	38.73	94.6	494.9	288.0	277.0	10.97	26.247		
5,600.0	5,588.8	5,580.9	5,539.2	7.2	7.0	38.70	98.1	511.8	297.7	286.5	11.17	26.654		
5,700.0	5,688.5	5,680.4	5,637.2	7.3	7.1	38.68	101.5	528.8	307.4	296.0	11.37	27.043		
5,800.0	5,788.1	5,780.0	5,735.2	7.5	7.3	38.66	105.0	545.7	317.1	305.6	11.57	27.412		
5,900.0	5,887.7	5,879.5	5,833.2	7.6	7.4	38.65	108.4	562.6	326.8	315.1	11.77	27.764		
6,000.0	5,987.3	5,979.0	5,931.2	7.7	7.5	38.63	111.8	579.6	336.6	324.6	11.98	28.099		
6,100.0	6,086.9	6,078.5	6,029.2	7.8	7.6	38.61	115.3	596.5	346.3	334.1	12.19	28.418		
6,200.0	6,186.6	6,178.1	6,127.3	7.9	7.7	38.60	118.7	613.4	356.0	343.6	12.39	28.722		
6,300.0	6,286.2	6,277.6	6,225.3	8.0	7.9	38.58	122.2	630.4	365.7	353.1	12.61	29.012		
6,400.0	6,385.8	6,377.1	6,323.3	8.1	8.0	38.57	125.6	647.3	375.4	362.6	12.82	29.288		
6,500.0	6,485.4	6,476.7	6,421.3	8.2	8.1	38.55	129.1	664.3	385.2	372.1	13.03	29.552		
6,553.1	6,538.3	6,529.5	6,473.4	8.3	8.2	38.55	130.9	673.3	390.3	377.2	13.15	29.686		
6,600.0	6,585.0	6,576.2	6,519.3	8.4	8.3	38.55	132.5	681.2	395.0	381.8	13.25	29.812		
6,700.0	6,684.8	6,675.5	6,617.2	8.5	8.4	38.46	135.9	698.1	406.1	392.6	13.48	30.133		
6,800.0	6,784.7	6,774.7	6,714.9	8.6	8.5	38.24	139.4	715.0	418.5	404.7	13.71	30.528		
6,900.0	6,884.6	6,873.7	6,812.4	8.7	8.7	37.90	142.8	731.8	432.2	418.3	13.95	30.995		
7,000.0	6,984.6	6,972.5	6,909.6	8.8	8.8	37.45	146.2	748.6	447.4	433.2	14.19	31.522		
7,053.1	7,037.7	7,024.8	6,961.2	8.9	8.9	95.51	148.0	757.5	456.0	441.7	14.32	31.856		
7,100.0	7,084.6	7,071.0	7,006.6	8.9	8.9	95.21	149.6	765.4	463.8	449.4	14.41	32.183		
7,200.0	7,184.6	7,169.5	7,103.6	9.0	9.1	94.62	153.0	782.2	480.5	465.9	14.62	32.869		
7,300.0	7,284.6	7,268.0	7,200.6	9.1	9.2	94.07	156.4	798.9	497.2	482.4	14.82	33.541		
7,400.0	7,384.6	7,366.5	7,297.6	9.3	9.3	93.55	159.9	815.7	514.0	499.0	15.03	34.199		
7,500.0	7,484.6	7,464.9	7,394.6	9.4	9.5	93.06	163.3	832.4	530.8	515.6	15.23	34.842		
7,600.0	7,584.6	7,563.4	7,491.6	9.5	9.6	92.60	166.7	849.2	547.6	532.2	15.44	35.472		
7,700.0	7,684.6	7,661.9	7,588.5	9.6	9.8	92.18	170.1	865.9	564.5	548.9	15.64	36.087		
7,800.0	7,784.6	7,760.4	7,685.5	9.7	9.9	91.77	173.5	882.7	581.4	565.6	15.85	36.690		
7,900.0	7,884.6	7,862.9	7,786.5	9.8	10.1	91.38	177.0	900.0	598.2	582.2	16.04	37.293		
8,000.0	7,984.6	7,973.0	7,895.3	9.9	10.2	91.01	180.5	917.0	613.6	597.4	16.22	37.825		
8,100.0	8,084.6	8,083.8	8,005.0	10.0	10.4	90.71	183.5	932.0	627.1	610.7	16.40	38.227		
8,200.0	8,184.6	8,195.1	8,115.5	10.1	10.5	90.46	186.1	945.0	638.7	622.2	16.59	38.499		
8,300.0	8,284.6	8,306.9	8,226.7	10.3	10.7	90.25	188.4	955.9	648.5	631.7	16.78	38.641		
8,400.0	8,384.6	8,419.1	8,338.6	10.4	10.8	90.09	190.2	964.7	656.4	639.4	16.98	38.655		
8,500.0	8,484.6	8,531.6	8,450.9	10.5	10.9	89.97	191.5	971.4	662.3	645.1	17.18	38.543		
8,600.0	8,584.6	8,644.3	8,563.5	10.6	11.0	89.89	192.4	976.0	666.3	648.9	17.39	38.307		
8,700.0	8,684.6	8,757.2	8,676.3	10.7	11.1	89.85	192.9	978.3	668.4	650.8	17.61	37.949		
8,800.0	8,784.6	8,864.8	8,783.9	10.8	11.2	89.85	193.0	978.7	668.8	651.0	17.78	37.616		
8,900.0	8,884.6	8,964.8	8,883.9	10.9	11.3	89.85	193.0	978.7	668.8	650.9	17.88	37.413		
9,000.0	8,984.6	9,064.8	8,983.9	11.1	11.4	89.85	193.0	978.7	668.8	650.8	17.97	37.211		
9,100.0	9,084.6	9,164.8	9,083.9	11.2	11.5	89.85	193.0	978.7	668.8	650.7	18.07	37.009		
9,200.0	9,184.6	9,264.8	9,183.9	11.3	11.6	89.85	193.0	978.7	668.8	650.6	18.17	36.809		
9,300.0	9,284.6	9,364.8	9,283.9	11.4	11.7	89.85	193.0	978.7	668.8	650.5	18.27	36.610		
9,400.0	9,384.6	9,464.8	9,383.9	11.5	11.8	89.85	193.0	978.7	668.8	650.4	18.37	36.412		
9,500.0	9,484.6	9,564.8	9,483.9	11.6	11.9	89.85	193.0	978.7	668.8	650.3	18.47	36.215		
9,600.0	9,584.6	9,664.8	9,583.9	11.8	12.0	89.85	193.0	978.7	668.8	650.2	18.57	36.020		
9,700.0	9,684.6	9,764.8	9,683.9	11.9	12.1	89.85	193.0	978.7	668.8	650.1	18.67	35.825		
9,800.0	9,784.6	9,864.8	9,783.9	12.0	12.2	89.85	193.0	978.7	668.8	650.0	18.77	35.632		
9,900.0	9,884.6	9,964.8	9,883.9	12.1	12.3	89.85	193.0	978.7	668.8	649.9	18.87	35.439		
10,000.0	9,984.6	10,064.8	9,983.9	12.2	12.4	89.85	193.0	978.7	668.8	649.8	18.97	35.248		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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)				
10,100.0	10,084.6	10,164.8	10,083.9	12.4	12.5	89.85	193.0	978.7	668.8	649.7	19.08	35.058		
10,200.0	10,184.6	10,264.8	10,183.9	12.5	12.6	89.85	193.0	978.7	668.8	649.6	19.18	34.870		
10,300.0	10,284.6	10,364.8	10,283.9	12.6	12.7	89.85	193.0	978.7	668.8	649.5	19.28	34.682		
10,400.0	10,384.6	10,464.8	10,383.9	12.7	12.8	89.85	193.0	978.7	668.8	649.4	19.39	34.496		
10,500.0	10,484.6	10,564.8	10,483.9	12.8	12.9	89.85	193.0	978.7	668.8	649.3	19.49	34.311		
10,600.0	10,584.6	10,664.8	10,583.9	13.0	13.0	89.85	193.0	978.7	668.8	649.2	19.60	34.127		
10,700.0	10,684.6	10,764.8	10,683.9	13.1	13.1	89.85	193.0	978.7	668.8	649.1	19.70	33.945		
10,800.0	10,784.6	10,864.8	10,783.9	13.2	13.2	89.85	193.0	978.7	668.8	649.0	19.81	33.764		
10,900.0	10,884.6	10,964.8	10,883.9	13.3	13.3	89.85	193.0	978.7	668.8	648.9	19.91	33.583		
11,000.0	10,984.6	11,064.8	10,983.9	13.4	13.4	89.85	193.0	978.7	668.8	648.7	20.02	33.405		
11,100.0	11,084.6	11,164.8	11,083.9	13.6	13.5	89.85	193.0	978.7	668.8	648.6	20.13	33.227		
11,200.0	11,184.6	11,264.8	11,183.9	13.7	13.6	89.85	193.0	978.7	668.8	648.5	20.23	33.051		
11,300.0	11,284.6	11,364.8	11,283.9	13.8	13.7	89.85	193.0	978.7	668.8	648.4	20.34	32.876		
11,400.0	11,384.6	11,464.8	11,383.9	13.9	13.8	89.85	193.0	978.7	668.8	648.3	20.45	32.702		
11,500.0	11,484.6	11,564.8	11,483.9	14.0	13.9	89.85	193.0	978.7	668.8	648.2	20.56	32.529		
11,600.0	11,584.6	11,664.8	11,583.9	14.2	14.0	89.85	193.0	978.7	668.8	648.1	20.67	32.358		
11,700.0	11,684.6	11,764.8	11,683.9	14.3	14.1	89.85	193.0	978.7	668.8	648.0	20.78	32.188		
11,800.0	11,784.6	11,864.8	11,783.9	14.4	14.2	89.85	193.0	978.7	668.8	647.9	20.89	32.019		
11,900.0	11,884.6	11,964.8	11,883.9	14.5	14.3	89.85	193.0	978.7	668.8	647.8	21.00	31.851		
11,912.4	11,897.0	11,977.2	11,896.3	14.5	14.3	89.85	193.0	978.7	668.8	647.8	21.01	31.836		
11,950.0	11,934.5	12,014.5	11,933.6	14.6	14.5	-89.73	191.8	978.7	668.8	647.7	21.02	31.822		
11,974.8	11,959.2	12,039.2	11,958.2	14.7	14.5	-89.73	189.7	978.7	668.8	647.7	21.02	31.814		
12,000.0	11,984.2	12,064.3	11,983.1	14.8	14.6	-89.74	186.5	978.7	668.8	647.7	21.03	31.805		
12,050.0	12,033.3	12,114.0	12,031.9	15.0	14.9	-89.75	176.9	978.8	668.8	647.7	21.05	31.775		
12,100.0	12,081.2	12,163.8	12,079.6	15.3	15.1	-89.76	163.1	978.9	668.8	647.7	21.07	31.733		
12,150.0	12,127.8	12,213.5	12,126.1	15.5	15.4	-89.78	145.3	979.1	668.8	647.7	21.11	31.675		
12,200.0	12,172.7	12,263.3	12,170.8	15.8	15.6	-89.79	123.4	979.2	668.8	647.6	21.16	31.600		
12,250.0	12,215.4	12,313.1	12,213.4	16.0	15.8	-89.81	97.8	979.4	668.8	647.5	21.23	31.505		
12,300.0	12,255.7	12,362.9	12,253.7	16.2	16.0	-89.83	68.5	979.6	668.8	647.5	21.31	31.388		
12,350.0	12,293.3	12,412.7	12,291.3	16.4	16.2	-89.85	35.8	979.9	668.8	647.4	21.40	31.245		
12,400.0	12,327.8	12,462.6	12,326.0	16.5	16.3	-89.87	0.0	980.2	668.8	647.3	21.52	31.076		
12,450.0	12,359.1	12,512.5	12,357.4	16.7	16.5	-89.89	-38.7	980.5	668.8	647.1	21.66	30.879		
12,500.0	12,386.9	12,562.4	12,385.3	16.8	16.6	-89.92	-80.1	980.8	668.8	647.0	21.82	30.652		
12,550.0	12,410.9	12,612.3	12,409.5	16.9	16.7	-89.94	-123.7	981.1	668.8	646.8	22.00	30.397		
12,600.0	12,431.0	12,662.2	12,429.9	17.0	16.8	-89.96	-169.3	981.4	668.8	646.6	22.21	30.115		
12,650.0	12,447.1	12,712.2	12,446.2	17.0	16.9	-89.99	-216.5	981.8	668.8	646.4	22.44	29.807		
12,700.0	12,459.0	12,762.2	12,458.4	17.1	16.9	-90.01	-265.0	982.2	668.8	646.1	22.69	29.477		
12,750.0	12,466.6	12,812.2	12,466.3	17.1	17.0	-90.04	-314.3	982.5	668.8	645.8	22.96	29.129		
12,800.0	12,469.8	12,862.3	12,469.8	17.1	17.0	-90.06	-364.2	982.9	668.8	645.6	23.25	28.768		
12,809.7	12,470.0	12,872.0	12,470.0	17.1	17.0	-90.07	-374.0	983.0	668.8	645.5	23.30	28.698		
12,900.0	12,470.4	12,962.3	12,470.5	17.2	17.1	-90.07	-464.2	983.7	668.8	644.9	23.90	27.987		
13,000.0	12,470.8	13,062.3	12,471.0	17.2	17.1	-90.08	-564.2	984.4	668.8	644.2	24.64	27.138		
13,100.0	12,471.3	13,162.3	12,471.6	17.3	17.2	-90.08	-664.2	985.2	668.8	643.4	25.47	26.263		
13,200.0	12,471.8	13,262.3	12,472.1	17.3	17.2	-90.08	-764.2	985.9	668.8	642.5	26.35	25.380		
13,300.0	12,472.3	13,362.3	12,472.6	17.4	17.3	-90.09	-864.2	986.7	668.9	641.6	27.30	24.504		
13,400.0	12,472.7	13,462.3	12,473.1	17.5	17.4	-90.09	-964.2	987.5	668.9	640.6	28.29	23.643		
13,500.0	12,473.2	13,562.3	12,473.6	17.6	17.6	-90.10	-1,064.2	988.2	668.9	639.5	29.33	22.804		
13,600.0	12,473.7	13,662.3	12,474.2	17.7	17.7	-90.10	-1,164.2	989.0	668.9	638.5	30.41	21.993		
13,700.0	12,474.1	13,762.3	12,474.7	17.8	17.9	-90.11	-1,264.2	989.7	668.9	637.4	31.53	21.213		
13,800.0	12,474.6	13,862.3	12,475.2	18.0	18.2	-90.11	-1,364.2	990.5	668.9	636.2	32.68	20.465		
13,900.0	12,475.1	13,962.3	12,475.7	18.2	18.5	-90.12	-1,464.2	991.2	668.9	635.0	33.87	19.751		
14,000.0	12,475.6	14,062.3	12,476.3	18.5	18.8	-90.12	-1,564.2	992.0	668.9	633.8	35.08	19.070		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,100.0	12,476.0	14,162.3	12,476.8	18.8	19.2	-90.12	-1,664.2	992.8	668.9	632.6	36.31	18.422		
14,200.0	12,476.5	14,262.3	12,477.3	19.2	19.7	-90.13	-1,764.2	993.5	668.9	631.4	37.57	17.806		
14,300.0	12,477.0	14,362.3	12,477.8	19.7	20.2	-90.13	-1,864.2	994.3	668.9	630.1	38.84	17.222		
14,400.0	12,477.4	14,462.3	12,478.4	20.2	20.8	-90.14	-1,964.2	995.0	668.9	628.8	40.14	16.667		
14,500.0	12,477.9	14,562.3	12,478.9	20.8	21.4	-90.14	-2,064.2	995.8	669.0	627.5	41.45	16.141		
14,600.0	12,478.4	14,662.3	12,479.4	21.4	22.0	-90.15	-2,164.2	996.5	669.0	626.2	42.77	15.641		
14,700.0	12,478.9	14,762.3	12,479.9	22.0	22.6	-90.15	-2,264.2	997.3	669.0	624.9	44.11	15.167		
14,800.0	12,479.3	14,862.3	12,480.5	22.7	23.2	-90.16	-2,364.2	998.1	669.0	623.5	45.46	14.717		
14,900.0	12,479.8	14,962.3	12,481.0	23.3	23.9	-90.16	-2,464.2	998.8	669.0	622.2	46.82	14.289		
15,000.0	12,480.3	15,062.3	12,481.5	24.0	24.5	-90.17	-2,564.2	999.6	669.0	620.8	48.19	13.882		
15,100.0	12,480.7	15,162.3	12,482.0	24.7	25.2	-90.17	-2,664.2	1,000.3	669.0	619.4	49.57	13.496		
15,200.0	12,481.2	15,262.3	12,482.5	25.3	25.9	-90.17	-2,764.2	1,001.1	669.0	618.1	50.96	13.128		
15,300.0	12,481.7	15,362.3	12,483.1	26.0	26.5	-90.18	-2,864.1	1,001.8	669.0	616.7	52.36	12.778		
15,400.0	12,482.2	15,462.3	12,483.6	26.7	27.2	-90.18	-2,964.1	1,002.6	669.0	615.3	53.76	12.444		
15,500.0	12,482.6	15,562.3	12,484.1	27.4	27.9	-90.19	-3,064.1	1,003.4	669.0	613.9	55.17	12.126		
15,600.0	12,483.1	15,662.3	12,484.6	28.1	28.6	-90.19	-3,164.1	1,004.1	669.1	612.5	56.59	11.823		
15,700.0	12,483.6	15,762.3	12,485.2	28.8	29.3	-90.20	-3,264.1	1,004.9	669.1	611.0	58.01	11.533		
15,800.0	12,484.0	15,862.3	12,485.7	29.6	30.0	-90.20	-3,364.1	1,005.6	669.1	609.6	59.44	11.256		
15,900.0	12,484.5	15,962.3	12,486.2	30.3	30.7	-90.21	-3,464.1	1,006.4	669.1	608.2	60.88	10.991		
16,000.0	12,485.0	16,062.3	12,486.7	31.0	31.4	-90.21	-3,564.1	1,007.1	669.1	606.8	62.32	10.737		
16,100.0	12,485.5	16,162.3	12,487.3	31.7	32.1	-90.21	-3,664.1	1,007.9	669.1	605.3	63.76	10.494		
16,200.0	12,485.9	16,262.3	12,487.8	32.4	32.9	-90.22	-3,764.1	1,008.7	669.1	603.9	65.21	10.262		
16,300.0	12,486.4	16,362.3	12,488.3	33.2	33.6	-90.22	-3,864.1	1,009.4	669.1	602.5	66.66	10.038		
16,400.0	12,486.9	16,462.3	12,488.8	33.9	34.3	-90.23	-3,964.1	1,010.2	669.1	601.0	68.11	9.824		
16,500.0	12,487.3	16,562.3	12,489.4	34.6	35.0	-90.23	-4,064.1	1,010.9	669.1	599.6	69.57	9.618		
16,600.0	12,487.8	16,662.3	12,489.9	35.4	35.7	-90.24	-4,164.1	1,011.7	669.1	598.1	71.03	9.421		
16,700.0	12,488.3	16,762.3	12,490.4	36.1	36.5	-90.24	-4,264.1	1,012.4	669.2	596.7	72.49	9.231		
16,800.0	12,488.8	16,862.3	12,490.9	36.8	37.2	-90.25	-4,364.1	1,013.2	669.2	595.2	73.96	9.048		
16,900.0	12,489.2	16,962.3	12,491.5	37.6	37.9	-90.25	-4,464.1	1,013.9	669.2	593.7	75.43	8.872		
17,000.0	12,489.7	17,062.3	12,492.0	38.3	38.7	-90.25	-4,564.1	1,014.7	669.2	592.3	76.90	8.702		
17,100.0	12,490.2	17,162.3	12,492.5	39.0	39.4	-90.26	-4,664.1	1,015.5	669.2	590.8	78.37	8.539		
17,200.0	12,490.6	17,262.3	12,493.0	39.8	40.1	-90.26	-4,764.1	1,016.2	669.2	589.3	79.85	8.381		
17,300.0	12,491.1	17,362.3	12,493.5	40.5	40.9	-90.27	-4,864.1	1,017.0	669.2	587.9	81.33	8.229		
17,400.0	12,491.6	17,462.3	12,494.1	41.3	41.6	-90.27	-4,964.1	1,017.7	669.2	586.4	82.81	8.082		
17,500.0	12,492.1	17,562.3	12,494.6	42.0	42.3	-90.28	-5,064.1	1,018.5	669.2	584.9	84.29	7.940		
17,600.0	12,492.5	17,662.3	12,495.1	42.7	43.1	-90.28	-5,164.0	1,019.2	669.2	583.5	85.77	7.803		
17,700.0	12,493.0	17,762.3	12,495.6	43.5	43.8	-90.29	-5,264.0	1,020.0	669.2	582.0	87.26	7.670		
17,800.0	12,493.5	17,862.3	12,496.2	44.2	44.5	-90.29	-5,364.0	1,020.8	669.2	580.5	88.74	7.541		
17,900.0	12,493.9	17,962.3	12,496.7	45.0	45.3	-90.30	-5,464.0	1,021.5	669.3	579.0	90.23	7.417		
18,000.0	12,494.4	18,062.3	12,497.2	45.7	46.0	-90.30	-5,564.0	1,022.3	669.3	577.5	91.72	7.297		
18,100.0	12,494.9	18,162.3	12,497.7	46.5	46.8	-90.30	-5,664.0	1,023.0	669.3	576.1	93.21	7.180		
18,200.0	12,495.4	18,262.3	12,498.3	47.2	47.5	-90.31	-5,764.0	1,023.8	669.3	574.6	94.70	7.067		
18,300.0	12,495.8	18,362.3	12,498.8	48.0	48.3	-90.31	-5,864.0	1,024.5	669.3	573.1	96.20	6.958		
18,400.0	12,496.3	18,462.3	12,499.3	48.7	49.0	-90.32	-5,964.0	1,025.3	669.3	571.6	97.69	6.851		
18,500.0	12,496.8	18,562.3	12,499.8	49.5	49.7	-90.32	-6,064.0	1,026.1	669.3	570.1	99.19	6.748		
18,600.0	12,497.2	18,662.3	12,500.4	50.2	50.5	-90.33	-6,164.0	1,026.8	669.3	568.6	100.68	6.648		
18,700.0	12,497.7	18,762.3	12,500.9	51.0	51.2	-90.33	-6,264.0	1,027.6	669.3	567.1	102.18	6.550		
18,800.0	12,498.2	18,862.3	12,501.4	51.7	52.0	-90.34	-6,364.0	1,028.3	669.3	565.7	103.68	6.456		
18,900.0	12,498.7	18,962.3	12,501.9	52.5	52.7	-90.34	-6,464.0	1,029.1	669.3	564.2	105.18	6.364		
19,000.0	12,499.1	19,062.3	12,502.4	53.2	53.5	-90.34	-6,564.0	1,029.8	669.4	562.7	106.68	6.274		
19,100.0	12,499.6	19,162.3	12,503.0	54.0	54.2	-90.35	-6,664.0	1,030.6	669.4	561.2	108.18	6.187		
19,200.0	12,500.1	19,262.3	12,503.5	54.7	55.0	-90.35	-6,764.0	1,031.4	669.4	559.7	109.69	6.103		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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)				
19,300.0	12,500.5	19,362.3	12,504.0	55.5	55.7	-90.36	-6,864.0	1,032.1	669.4	558.2	111.19	6.020		
19,400.0	12,501.0	19,462.3	12,504.5	56.2	56.5	-90.36	-6,964.0	1,032.9	669.4	556.7	112.69	5.940		
19,500.0	12,501.5	19,562.3	12,505.1	57.0	57.2	-90.37	-7,064.0	1,033.6	669.4	555.2	114.20	5.862		
19,600.0	12,501.9	19,662.3	12,505.6	57.7	58.0	-90.37	-7,164.0	1,034.4	669.4	553.7	115.70	5.786		
19,700.0	12,502.4	19,762.3	12,506.1	58.5	58.7	-90.38	-7,264.0	1,035.1	669.4	552.2	117.21	5.711		
19,800.0	12,502.9	19,862.3	12,506.6	59.2	59.5	-90.38	-7,364.0	1,035.9	669.4	550.7	118.72	5.639		
19,900.0	12,503.4	19,962.3	12,507.2	60.0	60.2	-90.38	-7,464.0	1,036.7	669.4	549.2	120.22	5.568		
20,000.0	12,503.8	20,062.3	12,507.7	60.8	61.0	-90.39	-7,563.9	1,037.4	669.4	547.7	121.73	5.499		
20,100.0	12,504.3	20,162.3	12,508.2	61.5	61.7	-90.39	-7,663.9	1,038.2	669.5	546.2	123.24	5.432		
20,200.0	12,504.8	20,262.3	12,508.7	62.3	62.5	-90.40	-7,763.9	1,038.9	669.5	544.7	124.75	5.366		
20,300.0	12,505.2	20,362.3	12,509.3	63.0	63.2	-90.40	-7,863.9	1,039.7	669.5	543.2	126.26	5.302		
20,400.0	12,505.7	20,462.3	12,509.8	63.8	64.0	-90.41	-7,963.9	1,040.4	669.5	541.7	127.77	5.240		
20,500.0	12,506.2	20,562.3	12,510.3	64.5	64.7	-90.41	-8,063.9	1,041.2	669.5	540.2	129.28	5.179		
20,600.0	12,506.7	20,662.3	12,510.8	65.3	65.5	-90.42	-8,163.9	1,042.0	669.5	538.7	130.79	5.119		
20,700.0	12,507.1	20,762.3	12,511.3	66.1	66.3	-90.42	-8,263.9	1,042.7	669.5	537.2	132.30	5.060		
20,800.0	12,507.6	20,862.3	12,511.9	66.8	67.0	-90.43	-8,363.9	1,043.5	669.5	535.7	133.82	5.003		
20,900.0	12,508.1	20,962.3	12,512.4	67.6	67.8	-90.43	-8,463.9	1,044.2	669.5	534.2	135.33	4.947		
21,000.0	12,508.5	21,062.3	12,512.9	68.3	68.5	-90.43	-8,563.9	1,045.0	669.5	532.7	136.84	4.893		
21,100.0	12,509.0	21,162.3	12,513.4	69.1	69.3	-90.44	-8,663.9	1,045.7	669.5	531.2	138.35	4.839		
21,200.0	12,509.5	21,262.3	12,514.0	69.8	70.0	-90.44	-8,763.9	1,046.5	669.6	529.7	139.87	4.787		
21,300.0	12,510.0	21,362.3	12,514.5	70.6	70.8	-90.45	-8,863.9	1,047.3	669.6	528.2	141.38	4.736		
21,400.0	12,510.4	21,462.3	12,515.0	71.4	71.5	-90.45	-8,963.9	1,048.0	669.6	526.7	142.90	4.686		
21,500.0	12,510.9	21,562.3	12,515.5	72.1	72.3	-90.46	-9,063.9	1,048.8	669.6	525.2	144.41	4.637		
21,600.0	12,511.4	21,662.3	12,516.1	72.9	73.1	-90.46	-9,163.9	1,049.5	669.6	523.7	145.93	4.589		
21,700.0	12,511.8	21,762.3	12,516.6	73.6	73.8	-90.47	-9,263.9	1,050.3	669.6	522.2	147.44	4.541		
21,800.0	12,512.3	21,862.3	12,517.1	74.4	74.6	-90.47	-9,363.9	1,051.0	669.6	520.7	148.96	4.495		
21,900.0	12,512.8	21,962.3	12,517.6	75.1	75.3	-90.47	-9,463.9	1,051.8	669.6	519.1	150.48	4.450		
22,000.0	12,513.3	22,062.3	12,518.2	75.9	76.1	-90.48	-9,563.9	1,052.6	669.6	517.6	151.99	4.406		
22,100.0	12,513.7	22,162.3	12,518.7	76.7	76.8	-90.48	-9,663.9	1,053.3	669.6	516.1	153.51	4.362		
22,200.0	12,514.2	22,262.3	12,519.2	77.4	77.6	-90.49	-9,763.9	1,054.1	669.6	514.6	155.03	4.320		
22,300.0	12,514.7	22,362.3	12,519.7	78.2	78.4	-90.49	-9,863.8	1,054.8	669.7	513.1	156.54	4.278		
22,400.0	12,515.1	22,462.3	12,520.2	78.9	79.1	-90.50	-9,963.8	1,055.6	669.7	511.6	158.06	4.237		
22,500.0	12,515.6	22,562.3	12,520.8	79.7	79.9	-90.50	-10,063.8	1,056.3	669.7	510.1	159.58	4.196		
22,600.0	12,516.1	22,662.3	12,521.3	80.5	80.6	-90.51	-10,163.8	1,057.1	669.7	508.6	161.10	4.157		
22,700.0	12,516.6	22,762.3	12,521.8	81.2	81.4	-90.51	-10,263.8	1,057.8	669.7	507.1	162.62	4.118		
22,800.0	12,517.0	22,862.3	12,522.3	82.0	82.1	-90.51	-10,363.8	1,058.6	669.7	505.6	164.13	4.080		
22,900.0	12,517.5	22,962.3	12,522.9	82.7	82.9	-90.52	-10,463.8	1,059.4	669.7	504.1	165.65	4.043		
23,000.0	12,518.0	23,062.3	12,523.4	83.5	83.7	-90.52	-10,563.8	1,060.1	669.7	502.5	167.17	4.006		
23,100.0	12,518.4	23,162.3	12,523.9	84.3	84.4	-90.53	-10,663.8	1,060.9	669.7	501.0	168.69	3.970		
23,200.0	12,518.9	23,262.3	12,524.4	85.0	85.2	-90.53	-10,763.8	1,061.6	669.7	499.5	170.21	3.935		
23,300.0	12,519.4	23,362.3	12,525.0	85.8	85.9	-90.54	-10,863.8	1,062.4	669.7	498.0	171.73	3.900		
23,400.0	12,519.9	23,462.3	12,525.5	86.5	86.7	-90.54	-10,963.8	1,063.1	669.8	496.5	173.25	3.866		
23,500.0	12,520.3	23,562.3	12,526.0	87.3	87.5	-90.55	-11,063.8	1,063.9	669.8	495.0	174.77	3.832		
23,600.0	12,520.8	23,662.3	12,526.5	88.1	88.2	-90.55	-11,163.8	1,064.7	669.8	493.5	176.29	3.799		
23,700.0	12,521.3	23,762.3	12,527.1	88.8	89.0	-90.55	-11,263.8	1,065.4	669.8	492.0	177.81	3.767		
23,800.0	12,521.7	23,862.3	12,527.6	89.6	89.7	-90.56	-11,363.8	1,066.2	669.8	490.5	179.33	3.735		
23,900.0	12,522.2	23,962.3	12,528.1	90.4	90.5	-90.56	-11,463.8	1,066.9	669.8	488.9	180.86	3.704		
24,000.0	12,522.7	24,062.3	12,528.6	91.1	91.3	-90.57	-11,563.8	1,067.7	669.8	487.4	182.38	3.673		
24,100.0	12,523.2	24,162.3	12,529.1	91.9	92.0	-90.57	-11,663.8	1,068.4	669.8	485.9	183.90	3.642		
24,200.0	12,523.6	24,262.3	12,529.7	92.6	92.8	-90.58	-11,763.8	1,069.2	669.8	484.4	185.42	3.613		
24,300.0	12,524.1	24,362.3	12,530.2	93.4	93.5	-90.58	-11,863.8	1,070.0	669.8	482.9	186.94	3.583		
24,400.0	12,524.6	24,462.3	12,530.7	94.2	94.3	-90.59	-11,963.8	1,070.7	669.8	481.4	188.46	3.554		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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				Reference		Offset		Semi Major Axis		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		
24,500.0	12,525.0	24,562.3	12,531.2	94.9	95.1	-90.59	-12,063.8	1,071.5	669.9	479.9	189.98	3.526			
24,600.0	12,525.5	24,662.3	12,531.8	95.7	95.8	-90.60	-12,163.8	1,072.2	669.9	478.4	191.51	3.498			
24,700.0	12,526.0	24,762.3	12,532.3	96.4	96.6	-90.60	-12,263.7	1,073.0	669.9	476.8	193.03	3.470			
24,800.0	12,526.5	24,862.3	12,532.8	97.2	97.3	-90.60	-12,363.7	1,073.7	669.9	475.3	194.55	3.443			
24,900.0	12,526.9	24,962.3	12,533.3	98.0	98.1	-90.61	-12,463.7	1,074.5	669.9	473.8	196.07	3.417			
25,000.0	12,527.4	25,062.3	12,533.9	98.7	98.9	-90.61	-12,563.7	1,075.3	669.9	472.3	197.60	3.390			
25,100.0	12,527.9	25,162.3	12,534.4	99.5	99.6	-90.62	-12,663.7	1,076.0	669.9	470.8	199.12	3.364			
25,200.0	12,528.3	25,262.3	12,534.9	100.3	100.4	-90.62	-12,763.7	1,076.8	669.9	469.3	200.64	3.339			
25,300.0	12,528.8	25,362.3	12,535.4	101.0	101.1	-90.63	-12,863.7	1,077.5	669.9	467.8	202.17	3.314			
25,400.0	12,529.3	25,462.3	12,536.0	101.8	101.9	-90.63	-12,963.7	1,078.3	669.9	466.3	203.69	3.289			
25,500.0	12,529.8	25,562.3	12,536.5	102.5	102.7	-90.64	-13,063.7	1,079.0	669.9	464.7	205.21	3.265			
25,600.0	12,530.2	25,662.3	12,537.0	103.3	103.4	-90.64	-13,163.7	1,079.8	670.0	463.2	206.74	3.241			
25,700.0	12,530.7	25,762.3	12,537.5	104.1	104.2	-90.64	-13,263.7	1,080.6	670.0	461.7	208.26	3.217			
25,800.0	12,531.2	25,862.3	12,538.1	104.8	105.0	-90.65	-13,363.7	1,081.3	670.0	460.2	209.78	3.194			
25,900.0	12,531.6	25,962.3	12,538.6	105.6	105.7	-90.65	-13,463.7	1,082.1	670.0	458.7	211.31	3.171			
26,000.0	12,532.1	26,062.3	12,539.1	106.4	106.5	-90.66	-13,563.7	1,082.8	670.0	457.2	212.83	3.148			
26,100.0	12,532.6	26,162.3	12,539.6	107.1	107.2	-90.66	-13,663.7	1,083.6	670.0	455.6	214.36	3.126			
26,200.0	12,533.1	26,262.3	12,540.1	107.9	108.0	-90.67	-13,763.7	1,084.3	670.0	454.1	215.88	3.104			
26,300.0	12,533.5	26,362.3	12,540.7	108.6	108.8	-90.67	-13,863.7	1,085.1	670.0	452.6	217.40	3.082			
26,400.0	12,534.0	26,462.3	12,541.2	109.4	109.5	-90.68	-13,963.7	1,085.9	670.0	451.1	218.93	3.061			
26,500.0	12,534.5	26,562.3	12,541.7	110.2	110.3	-90.68	-14,063.7	1,086.6	670.0	449.6	220.45	3.039			
26,600.0	12,534.9	26,662.3	12,542.2	110.9	111.0	-90.68	-14,163.7	1,087.4	670.1	448.1	221.98	3.019			
26,629.0	12,535.1	26,691.3	12,542.4	111.1	111.3	-90.69	-14,192.7	1,087.6	670.1	447.6	222.42	3.013 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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-90.19	-0.1	-30.0	30.0				
100.0	100.0	99.9	99.9	3.0	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	5.000	
200.0	200.0	199.9	199.9	3.0	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	4.998	
300.0	300.0	299.9	299.9	3.0	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.01	4.993	
400.0	400.0	399.9	399.9	3.0	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.02	4.985	
500.0	500.0	499.9	499.9	3.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	24.0	6.03	4.975	
600.0	600.0	599.9	599.9	3.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	24.0	6.05	4.962	
700.0	700.0	699.9	699.9	3.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	23.9	6.07	4.946	
800.0	800.0	799.9	799.9	3.2	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.09	4.928	
900.0	900.0	899.9	899.9	3.2	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	999.9	999.9	3.2	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.14	4.886	
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	3.3	-90.19	-0.1	-30.0	30.0	23.8	6.17	4.861	
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.8	6.24	4.806	
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	3.5	-90.19	-0.1	-30.0	30.0	23.7	6.28	4.775	
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	3.5	-90.19	-0.1	-30.0	30.0	23.7	6.33	4.743	
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	3.6	-90.19	-0.1	-30.0	30.0	23.6	6.37	4.709	
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	3.7	-90.19	-0.1	-30.0	30.0	23.6	6.42	4.673	
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	3.8	-90.19	-0.1	-30.0	30.0	23.5	6.47	4.636	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.5	6.52	4.598	
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.4	6.58	4.559	
2,100.0	2,100.0	2,099.9	2,099.9	4.0	4.0	4.0	-90.19	-0.1	-30.0	30.0	23.4	6.64	4.519	
2,200.0	2,200.0	2,199.9	2,199.9	4.1	4.1	4.1	-90.19	-0.1	-30.0	30.0	23.3	6.70	4.478	
2,300.0	2,300.0	2,299.9	2,299.9	4.2	4.2	4.2	-90.19	-0.1	-30.0	30.0	23.2	6.76	4.436	
2,400.0	2,400.0	2,399.9	2,399.9	4.3	4.3	4.3	-90.19	-0.1	-30.0	30.0	23.2	6.83	4.393	
2,500.0	2,500.0	2,499.9	2,499.9	4.4	4.4	4.4	-90.19	-0.1	-30.0	30.0	23.1	6.90	4.350 CC, ES	
2,600.0	2,600.0	2,598.9	2,598.9	4.5	4.5	4.5	-148.51	0.8	-31.5	33.0	26.0	6.97	4.732	
2,700.0	2,699.8	2,697.4	2,697.3	4.5	4.5	4.5	-148.46	3.4	-35.8	41.8	34.8	7.04	5.940	
2,750.0	2,749.7	2,746.3	2,746.0	4.6	4.6	4.6	-148.43	5.4	-39.0	48.5	41.4	7.08	6.844	
2,800.0	2,799.5	2,795.7	2,795.2	4.6	4.6	4.6	-148.43	7.6	-42.7	55.9	48.7	7.12	7.843	
2,900.0	2,899.1	2,894.6	2,893.8	4.7	4.7	4.7	-148.43	12.1	-50.1	70.7	63.5	7.21	9.800	
3,000.0	2,998.7	2,993.5	2,992.3	4.8	4.7	4.7	-148.43	16.6	-57.5	85.5	78.2	7.31	11.699	
3,100.0	3,098.4	3,092.4	3,090.8	4.8	4.8	4.8	-148.43	21.1	-64.8	100.3	92.9	7.41	13.536	
3,200.0	3,198.0	3,191.3	3,189.3	4.9	4.9	4.9	-148.43	25.5	-72.2	115.2	107.6	7.52	15.312	
3,300.0	3,297.6	3,290.2	3,287.8	5.0	5.0	5.0	-148.43	30.0	-79.6	130.0	122.4	7.64	17.024	
3,400.0	3,397.2	3,389.1	3,386.4	5.1	5.1	5.1	-148.43	34.5	-86.9	144.8	137.1	7.76	18.672	
3,500.0	3,496.8	3,488.0	3,484.9	5.1	5.1	5.1	-148.43	39.0	-94.3	159.6	151.8	7.88	20.256	
3,600.0	3,596.4	3,586.9	3,583.4	5.2	5.2	5.2	-148.43	43.4	-101.7	174.5	166.5	8.01	21.778	
3,700.0	3,696.1	3,685.8	3,681.9	5.3	5.3	5.3	-148.43	47.9	-109.0	189.3	181.1	8.15	23.236	
3,800.0	3,795.7	3,784.7	3,780.4	5.4	5.4	5.4	-148.43	52.4	-116.4	204.1	195.8	8.29	24.633	
3,900.0	3,895.3	3,883.6	3,878.9	5.5	5.5	5.5	-148.43	56.9	-123.7	218.9	210.5	8.43	25.971	
4,000.0	3,994.9	3,982.5	3,977.5	5.6	5.6	5.6	-148.43	61.3	-131.1	233.8	225.2	8.58	27.250	
4,100.0	4,094.5	4,081.4	4,076.0	5.7	5.7	5.7	-148.43	65.8	-138.5	248.6	239.9	8.73	28.472	
4,200.0	4,194.2	4,180.3	4,174.5	5.8	5.8	5.8	-148.43	70.3	-145.8	263.4	254.5	8.89	29.640	
4,300.0	4,293.8	4,279.2	4,273.0	5.9	5.9	5.9	-148.43	74.8	-153.2	278.2	269.2	9.05	30.754	
4,400.0	4,393.4	4,378.1	4,371.5	6.0	6.0	6.0	-148.43	79.2	-160.6	293.1	283.9	9.21	31.818	
4,500.0	4,493.0	4,477.0	4,470.1	6.1	6.0	6.0	-148.43	83.7	-167.9	307.9	298.5	9.38	32.833	
4,600.0	4,592.6	4,575.8	4,568.6	6.2	6.1	6.1	-148.43	88.2	-175.3	322.7	313.2	9.55	33.801	
4,700.0	4,692.3	4,674.7	4,667.1	6.3	6.2	6.2	-148.43	92.7	-182.7	337.5	327.8	9.72	34.725	
4,800.0	4,791.9	4,773.6	4,765.6	6.4	6.3	6.3	-148.43	97.1	-190.0	352.4	342.5	9.90	35.605	
4,900.0	4,891.5	4,872.5	4,864.1	6.5	6.5	6.5	-148.43	101.6	-197.4	367.2	357.1	10.08	36.445	
5,000.0	4,991.1	4,971.4	4,962.7	6.6	6.6	6.6	-148.43	106.1	-204.8	382.0	371.8	10.26	37.246	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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	5,070.3	5,061.2	6.7	6.7	-148.43	110.6	-212.1	396.8	386.4	10.44	38.009		
5,200.0	5,190.4	5,169.2	5,159.7	6.8	6.8	-148.43	115.0	-219.5	411.7	401.0	10.63	38.737		
5,300.0	5,290.0	5,268.1	5,258.2	6.9	6.9	-148.43	119.5	-226.9	426.5	415.7	10.82	39.432		
5,400.0	5,389.6	5,367.0	5,356.7	7.0	7.0	-148.43	124.0	-234.2	441.3	430.3	11.01	40.095		
5,500.0	5,489.2	5,465.9	5,455.2	7.1	7.1	-148.43	128.5	-241.6	456.1	444.9	11.20	40.727		
5,600.0	5,588.8	5,564.8	5,553.8	7.2	7.2	-148.43	133.0	-249.0	471.0	459.6	11.40	41.330		
5,700.0	5,688.5	5,663.7	5,652.3	7.3	7.3	-148.43	137.4	-256.3	485.8	474.2	11.59	41.906		
5,800.0	5,788.1	5,762.6	5,750.8	7.5	7.4	-148.43	141.9	-263.7	500.6	488.8	11.79	42.456		
5,900.0	5,887.7	5,861.5	5,849.3	7.6	7.5	-148.43	146.4	-271.1	515.4	503.4	11.99	42.980		
6,000.0	5,987.3	5,960.4	5,947.8	7.7	7.6	-148.43	150.9	-278.4	530.3	518.1	12.20	43.482		
6,100.0	6,086.9	6,059.3	6,046.4	7.8	7.7	-148.43	155.3	-285.8	545.1	532.7	12.40	43.961		
6,200.0	6,186.6	6,158.2	6,144.9	7.9	7.9	-148.43	159.8	-293.2	559.9	547.3	12.61	44.418		
6,300.0	6,286.2	6,257.1	6,243.4	8.0	8.0	-148.43	164.3	-300.5	574.7	561.9	12.81	44.856		
6,400.0	6,385.8	6,356.0	6,341.9	8.1	8.1	-148.43	168.8	-307.9	589.6	576.5	13.02	45.274		
6,500.0	6,485.4	6,454.9	6,440.4	8.2	8.2	-148.43	173.2	-315.3	604.4	591.2	13.23	45.674		
6,553.1	6,538.3	6,507.4	6,492.8	8.3	8.3	-148.43	175.6	-319.2	612.3	598.9	13.35	45.879		
6,600.0	6,585.0	6,555.4	6,540.6	8.4	8.3	-148.45	177.8	-322.7	619.0	605.6	13.44	46.048		
6,700.0	6,684.8	6,664.8	6,649.7	8.5	8.4	-148.50	182.0	-329.7	631.4	617.7	13.65	46.259		
6,800.0	6,784.7	6,774.8	6,759.5	8.6	8.6	-148.53	185.2	-334.9	640.6	626.7	13.85	46.243		
6,900.0	6,884.6	6,885.2	6,869.8	8.7	8.7	-148.56	187.2	-338.3	646.7	632.6	14.06	46.007		
7,000.0	6,984.6	6,995.8	6,980.4	8.8	8.8	-148.58	188.2	-339.9	649.7	635.4	14.26	45.544		
7,053.1	7,037.7	7,053.0	7,037.6	8.9	8.9	-90.26	188.3	-340.1	650.0	635.7	14.34	45.318		
7,100.0	7,084.6	7,099.8	7,084.5	8.9	8.9	-90.26	188.3	-340.1	650.0	635.6	14.39	45.178		
7,200.0	7,184.6	7,199.8	7,184.5	9.0	9.0	-90.26	188.3	-340.1	650.0	635.5	14.48	44.881		
7,300.0	7,284.6	7,299.8	7,284.5	9.1	9.1	-90.26	188.3	-340.1	650.0	635.4	14.58	44.585		
7,400.0	7,384.6	7,399.8	7,384.5	9.3	9.2	-90.26	188.3	-340.1	650.0	635.3	14.68	44.291		
7,500.0	7,484.6	7,499.8	7,484.5	9.4	9.4	-90.26	188.3	-340.1	650.0	635.2	14.77	43.999		
7,600.0	7,584.6	7,599.8	7,584.5	9.5	9.5	-90.26	188.3	-340.1	650.0	635.1	14.87	43.709		
7,700.0	7,684.6	7,699.8	7,684.5	9.6	9.6	-90.26	188.3	-340.1	650.0	635.0	14.97	43.420		
7,800.0	7,784.6	7,799.8	7,784.5	9.7	9.7	-90.26	188.3	-340.1	650.0	634.9	15.07	43.134		
7,900.0	7,884.6	7,899.8	7,884.5	9.8	9.8	-90.26	188.3	-340.1	650.0	634.8	15.17	42.849		
8,000.0	7,984.6	7,999.8	7,984.5	9.9	9.9	-90.26	188.3	-340.1	650.0	634.7	15.27	42.567		
8,100.0	8,084.6	8,099.8	8,084.5	10.0	10.0	-90.26	188.3	-340.1	650.0	634.6	15.37	42.286		
8,200.0	8,184.6	8,199.8	8,184.5	10.1	10.1	-90.26	188.3	-340.1	650.0	634.5	15.47	42.008		
8,300.0	8,284.6	8,299.8	8,284.5	10.3	10.2	-90.26	188.3	-340.1	650.0	634.4	15.58	41.732		
8,400.0	8,384.6	8,399.8	8,384.5	10.4	10.4	-90.26	188.3	-340.1	650.0	634.3	15.68	41.458		
8,500.0	8,484.6	8,499.8	8,484.5	10.5	10.5	-90.26	188.3	-340.1	650.0	634.2	15.78	41.185		
8,600.0	8,584.6	8,599.8	8,584.5	10.6	10.6	-90.26	188.3	-340.1	650.0	634.1	15.89	40.915		
8,700.0	8,684.6	8,699.8	8,684.5	10.7	10.7	-90.26	188.3	-340.1	650.0	634.0	15.99	40.648		
8,800.0	8,784.6	8,799.8	8,784.5	10.8	10.8	-90.26	188.3	-340.1	650.0	633.9	16.10	40.382		
8,900.0	8,884.6	8,899.8	8,884.5	10.9	10.9	-90.26	188.3	-340.1	650.0	633.8	16.20	40.118		
9,000.0	8,984.6	8,999.8	8,984.5	11.1	11.0	-90.26	188.3	-340.1	650.0	633.7	16.31	39.857		
9,100.0	9,084.6	9,099.8	9,084.5	11.2	11.2	-90.26	188.3	-340.1	650.0	633.6	16.42	39.598		
9,200.0	9,184.6	9,199.8	9,184.5	11.3	11.3	-90.26	188.3	-340.1	650.0	633.5	16.52	39.341		
9,300.0	9,284.6	9,299.8	9,284.5	11.4	11.4	-90.26	188.3	-340.1	650.0	633.4	16.63	39.086		
9,400.0	9,384.6	9,399.8	9,384.5	11.5	11.5	-90.26	188.3	-340.1	650.0	633.3	16.74	38.833		
9,500.0	9,484.6	9,499.8	9,484.5	11.6	11.6	-90.26	188.3	-340.1	650.0	633.2	16.85	38.583		
9,600.0	9,584.6	9,599.8	9,584.5	11.8	11.8	-90.26	188.3	-340.1	650.0	633.0	16.96	38.335		
9,700.0	9,684.6	9,699.8	9,684.5	11.9	11.9	-90.26	188.3	-340.1	650.0	632.9	17.07	38.089		
9,800.0	9,784.6	9,799.8	9,784.5	12.0	12.0	-90.26	188.3	-340.1	650.0	632.8	17.18	37.845		
9,900.0	9,884.6	9,899.8	9,884.5	12.1	12.1	-90.26	188.3	-340.1	650.0	632.7	17.29	37.603		
10,000.0	9,984.6	9,999.8	9,984.5	12.2	12.2	-90.26	188.3	-340.1	650.0	632.6	17.40	37.363		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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	10,084.6	10,099.8	10,084.5	12.4	12.3	-90.26	188.3	-340.1	650.0	632.5	17.51	37.126		
10,200.0	10,184.6	10,199.8	10,184.5	12.5	12.5	-90.26	188.3	-340.1	650.0	632.4	17.62	36.891		
10,300.0	10,284.6	10,299.8	10,284.5	12.6	12.6	-90.26	188.3	-340.1	650.0	632.3	17.73	36.658		
10,400.0	10,384.6	10,399.8	10,384.5	12.7	12.7	-90.26	188.3	-340.1	650.0	632.2	17.84	36.427		
10,500.0	10,484.6	10,499.8	10,484.5	12.8	12.8	-90.26	188.3	-340.1	650.0	632.0	17.96	36.198		
10,600.0	10,584.6	10,599.8	10,584.5	13.0	12.9	-90.26	188.3	-340.1	650.0	631.9	18.07	35.971		
10,700.0	10,684.6	10,699.8	10,684.5	13.1	13.1	-90.26	188.3	-340.1	650.0	631.8	18.18	35.746		
10,800.0	10,784.6	10,799.8	10,784.5	13.2	13.2	-90.26	188.3	-340.1	650.0	631.7	18.30	35.524		
10,900.0	10,884.6	10,899.8	10,884.5	13.3	13.3	-90.26	188.3	-340.1	650.0	631.6	18.41	35.303		
11,000.0	10,984.6	10,999.8	10,984.5	13.4	13.4	-90.26	188.3	-340.1	650.0	631.5	18.53	35.085		
11,100.0	11,084.6	11,099.8	11,084.5	13.6	13.5	-90.26	188.3	-340.1	650.0	631.4	18.64	34.869		
11,200.0	11,184.6	11,199.8	11,184.5	13.7	13.7	-90.26	188.3	-340.1	650.0	631.2	18.76	34.654		
11,300.0	11,284.6	11,299.8	11,284.5	13.8	13.8	-90.26	188.3	-340.1	650.0	631.1	18.87	34.442		
11,400.0	11,384.6	11,399.8	11,384.5	13.9	13.9	-90.26	188.3	-340.1	650.0	631.0	18.99	34.232		
11,500.0	11,484.6	11,499.8	11,484.5	14.0	14.0	-90.26	188.3	-340.1	650.0	630.9	19.10	34.023		
11,600.0	11,584.6	11,599.8	11,584.5	14.2	14.2	-90.26	188.3	-340.1	650.0	630.8	19.22	33.817		
11,700.0	11,684.6	11,699.8	11,684.5	14.3	14.3	-90.26	188.3	-340.1	650.0	630.7	19.34	33.613		
11,800.0	11,784.6	11,799.8	11,784.5	14.4	14.4	-90.26	188.3	-340.1	650.0	630.5	19.46	33.410		
11,900.0	11,884.6	11,899.8	11,884.5	14.5	14.5	-90.26	188.3	-340.1	650.0	630.4	19.57	33.210		
11,912.4	11,897.0	11,912.3	11,896.9	14.5	14.5	-90.26	188.3	-340.1	650.0	630.4	19.58	33.191		
11,950.0	11,934.5	11,950.0	11,934.6	14.6	14.6	90.17	187.1	-340.1	650.0	630.4	19.60	33.169		
12,000.0	11,984.2	12,000.1	11,984.4	14.8	14.6	90.17	181.6	-340.0	650.0	630.4	19.61	33.154		
12,050.0	12,033.3	12,050.3	12,033.6	15.0	14.6	90.17	171.8	-339.9	650.0	630.4	19.62	33.126		
12,100.0	12,081.2	12,100.5	12,081.8	15.3	14.7	90.17	157.7	-339.8	650.0	630.4	19.65	33.082		
12,150.0	12,127.8	12,150.6	12,128.5	15.5	14.7	90.17	139.5	-339.7	650.0	630.3	19.69	33.019		
12,200.0	12,172.7	12,200.8	12,173.4	15.8	14.7	90.16	117.3	-339.5	650.0	630.3	19.74	32.934		
12,250.0	12,215.4	12,251.0	12,216.2	16.0	14.8	90.15	91.2	-339.3	650.0	630.2	19.80	32.823		
12,300.0	12,255.7	12,301.1	12,256.6	16.2	14.8	90.15	61.5	-339.1	650.0	630.1	19.89	32.682		
12,350.0	12,293.3	12,351.2	12,294.2	16.4	14.8	90.14	28.3	-338.9	650.0	630.0	20.00	32.506		
12,400.0	12,327.8	12,401.4	12,328.8	16.5	14.9	90.13	-7.9	-338.6	650.0	629.9	20.13	32.293		
12,450.0	12,359.1	12,451.5	12,360.1	16.7	14.9	90.12	-47.1	-338.3	650.0	629.7	20.29	32.040		
12,500.0	12,386.9	12,501.6	12,387.8	16.8	15.0	90.10	-88.8	-338.0	650.0	629.5	20.47	31.747		
12,550.0	12,410.9	12,551.7	12,411.7	16.9	15.1	90.09	-132.8	-337.7	650.0	629.3	20.69	31.415		
12,600.0	12,431.0	12,601.8	12,431.8	17.0	15.1	90.08	-178.7	-337.3	650.0	629.1	20.94	31.045		
12,650.0	12,447.1	12,651.9	12,447.7	17.0	15.2	90.07	-226.1	-337.0	650.0	628.8	21.21	30.643		
12,700.0	12,459.0	12,701.9	12,459.4	17.1	15.2	90.05	-274.8	-336.6	650.0	628.5	21.51	30.213		
12,750.0	12,466.6	12,752.0	12,466.9	17.1	15.3	90.04	-324.3	-336.2	650.0	628.2	21.84	29.763		
12,800.0	12,469.8	12,802.0	12,470.0	17.1	15.3	90.02	-374.2	-335.9	650.0	627.8	22.19	29.299		
12,809.7	12,470.0	12,811.7	12,470.1	17.1	15.3	90.02	-383.9	-335.8	650.0	627.8	22.25	29.209		
12,900.0	12,470.4	12,902.0	12,470.5	17.2	15.4	90.02	-474.2	-335.1	650.0	627.1	22.95	28.323		
13,000.0	12,470.8	13,002.0	12,471.1	17.2	15.5	90.03	-574.2	-334.4	650.0	626.2	23.82	27.293		
13,100.0	12,471.3	13,102.0	12,471.6	17.3	15.6	90.03	-674.2	-333.6	650.0	625.3	24.76	26.252		
13,200.0	12,471.8	13,202.0	12,472.1	17.3	15.7	90.04	-774.2	-332.9	650.0	624.2	25.77	25.220		
13,300.0	12,472.3	13,302.0	12,472.7	17.4	15.9	90.04	-874.1	-332.1	650.0	623.2	26.85	24.211		
13,400.0	12,472.7	13,402.0	12,473.2	17.5	16.1	90.05	-974.1	-331.4	650.0	622.0	27.98	23.235		
13,500.0	12,473.2	13,502.0	12,473.7	17.6	16.4	90.05	-1,074.1	-330.6	650.0	620.9	29.15	22.299		
13,600.0	12,473.7	13,602.0	12,474.2	17.7	16.7	90.06	-1,174.1	-329.9	650.0	619.7	30.37	21.405		
13,700.0	12,474.1	13,702.0	12,474.8	17.8	17.1	90.06	-1,274.1	-329.1	650.0	618.4	31.62	20.556		
13,800.0	12,474.6	13,802.0	12,475.3	18.0	17.6	90.07	-1,374.1	-328.4	650.0	617.1	32.91	19.752		
13,900.0	12,475.1	13,902.0	12,475.8	18.2	18.2	90.07	-1,474.1	-327.7	650.0	615.8	34.23	18.992		
14,000.0	12,475.6	14,002.0	12,476.3	18.5	18.8	90.08	-1,574.1	-326.9	650.0	614.5	35.57	18.275		
14,100.0	12,476.0	14,102.0	12,476.9	18.8	19.5	90.08	-1,674.1	-326.2	650.0	613.1	36.93	17.600		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	12,476.5	14,202.0	12,477.4	19.2	20.2	90.09		-1,774.1	-325.4	650.0	611.7	38.32	16.963	
14,300.0	12,477.0	14,302.0	12,477.9	19.7	20.9	90.09		-1,874.1	-324.7	650.0	610.3	39.72	16.364	
14,400.0	12,477.4	14,402.0	12,478.5	20.2	21.6	90.10		-1,974.1	-323.9	650.0	608.9	41.15	15.798	
14,500.0	12,477.9	14,502.0	12,479.0	20.8	22.4	90.10		-2,074.1	-323.2	650.0	607.5	42.58	15.266	
14,600.0	12,478.4	14,602.0	12,479.5	21.4	23.1	90.11		-2,174.1	-322.4	650.0	606.0	44.03	14.763	
14,700.0	12,478.9	14,702.0	12,480.0	22.0	23.9	90.11		-2,274.1	-321.7	650.0	604.6	45.49	14.289	
14,800.0	12,479.3	14,802.0	12,480.6	22.7	24.7	90.12		-2,374.1	-320.9	650.0	603.1	46.97	13.841	
14,900.0	12,479.8	14,902.0	12,481.1	23.3	25.4	90.12		-2,474.1	-320.2	650.1	601.6	48.45	13.417	
15,000.0	12,480.3	15,002.0	12,481.6	24.0	26.2	90.13		-2,574.1	-319.4	650.1	600.1	49.94	13.016	
15,100.0	12,480.7	15,102.0	12,482.2	24.7	27.0	90.13		-2,674.1	-318.7	650.1	598.6	51.44	12.637	
15,200.0	12,481.2	15,202.0	12,482.7	25.3	27.8	90.14		-2,774.1	-317.9	650.1	597.1	52.95	12.277	
15,300.0	12,481.7	15,302.0	12,483.2	26.0	28.6	90.14		-2,874.1	-317.2	650.1	595.6	54.47	11.935	
15,400.0	12,482.2	15,402.0	12,483.7	26.7	29.4	90.15		-2,974.1	-316.5	650.1	594.1	55.99	11.611	
15,500.0	12,482.6	15,502.0	12,484.3	27.4	30.2	90.15		-3,074.1	-315.7	650.1	592.5	57.51	11.303	
15,600.0	12,483.1	15,602.0	12,484.8	28.1	31.0	90.16		-3,174.1	-315.0	650.1	591.0	59.05	11.009	
15,700.0	12,483.6	15,702.0	12,485.3	28.8	31.9	90.16		-3,274.0	-314.2	650.1	589.5	60.59	10.730	
15,800.0	12,484.0	15,802.0	12,485.9	29.6	32.7	90.17		-3,374.0	-313.5	650.1	587.9	62.13	10.463	
15,900.0	12,484.5	15,902.0	12,486.4	30.3	33.5	90.17		-3,474.0	-312.7	650.1	586.4	63.67	10.209	
16,000.0	12,485.0	16,002.0	12,486.9	31.0	34.3	90.18		-3,574.0	-312.0	650.1	584.8	65.23	9.966	
16,100.0	12,485.5	16,102.0	12,487.4	31.7	35.2	90.18		-3,674.0	-311.2	650.1	583.3	66.78	9.734	
16,200.0	12,485.9	16,202.0	12,488.0	32.4	36.0	90.19		-3,774.0	-310.5	650.1	581.7	68.34	9.513	
16,300.0	12,486.4	16,302.0	12,488.5	33.2	36.8	90.19		-3,874.0	-309.7	650.1	580.2	69.90	9.300	
16,400.0	12,486.9	16,402.0	12,489.0	33.9	37.6	90.20		-3,974.0	-309.0	650.1	578.6	71.47	9.096	
16,500.0	12,487.3	16,502.0	12,489.5	34.6	38.5	90.20		-4,074.0	-308.2	650.1	577.0	73.03	8.901	
16,600.0	12,487.8	16,602.0	12,490.1	35.4	39.3	90.21		-4,174.0	-307.5	650.1	575.5	74.60	8.714	
16,700.0	12,488.3	16,702.0	12,490.6	36.1	40.1	90.21		-4,274.0	-306.8	650.1	573.9	76.18	8.534	
16,800.0	12,488.8	16,802.0	12,491.1	36.8	41.0	90.22		-4,374.0	-306.0	650.1	572.3	77.75	8.361	
16,900.0	12,489.2	16,902.0	12,491.7	37.6	41.8	90.22		-4,474.0	-305.3	650.1	570.8	79.33	8.195	
17,000.0	12,489.7	17,002.0	12,492.2	38.3	42.7	90.23		-4,574.0	-304.5	650.1	569.2	80.91	8.035	
17,100.0	12,490.2	17,102.0	12,492.7	39.0	43.5	90.23		-4,674.0	-303.8	650.1	567.6	82.49	7.881	
17,200.0	12,490.6	17,202.0	12,493.2	39.8	44.3	90.24		-4,774.0	-303.0	650.1	566.0	84.07	7.733	
17,300.0	12,491.1	17,302.0	12,493.8	40.5	45.2	90.24		-4,874.0	-302.3	650.1	564.4	85.66	7.590	
17,400.0	12,491.6	17,402.0	12,494.3	41.3	46.0	90.25		-4,974.0	-301.5	650.1	562.9	87.24	7.452	
17,500.0	12,492.1	17,502.0	12,494.8	42.0	46.9	90.25		-5,074.0	-300.8	650.1	561.3	88.83	7.318	
17,600.0	12,492.5	17,602.0	12,495.4	42.7	47.7	90.26		-5,174.0	-300.0	650.1	559.7	90.42	7.190	
17,700.0	12,493.0	17,702.0	12,495.9	43.5	48.6	90.26		-5,274.0	-299.3	650.1	558.1	92.01	7.065	
17,800.0	12,493.5	17,802.0	12,496.4	44.2	49.4	90.27		-5,374.0	-298.5	650.1	556.5	93.60	6.945	
17,900.0	12,493.9	17,902.0	12,496.9	45.0	50.2	90.27		-5,474.0	-297.8	650.1	554.9	95.20	6.829	
18,000.0	12,494.4	18,002.0	12,497.5	45.7	51.1	90.28		-5,574.0	-297.0	650.1	553.3	96.79	6.717	
18,100.0	12,494.9	18,102.0	12,498.0	46.5	51.9	90.28		-5,673.9	-296.3	650.1	551.7	98.39	6.608	
18,200.0	12,495.4	18,202.0	12,498.5	47.2	52.8	90.29		-5,773.9	-295.6	650.1	550.1	99.99	6.502	
18,300.0	12,495.8	18,302.0	12,499.1	48.0	53.6	90.29		-5,873.9	-294.8	650.1	548.5	101.58	6.400	
18,400.0	12,496.3	18,402.0	12,499.6	48.7	54.5	90.30		-5,973.9	-294.1	650.1	546.9	103.18	6.301	
18,500.0	12,496.8	18,502.0	12,500.1	49.5	55.3	90.30		-6,073.9	-293.3	650.1	545.3	104.78	6.204	
18,600.0	12,497.2	18,602.0	12,500.6	50.2	56.2	90.31		-6,173.9	-292.6	650.1	543.7	106.38	6.111	
18,700.0	12,497.7	18,702.0	12,501.2	51.0	57.0	90.31		-6,273.9	-291.8	650.1	542.1	107.99	6.020	
18,800.0	12,498.2	18,802.0	12,501.7	51.7	57.9	90.32		-6,373.9	-291.1	650.1	540.5	109.59	5.932	
18,900.0	12,498.7	18,902.0	12,502.2	52.5	58.7	90.32		-6,473.9	-290.3	650.1	538.9	111.19	5.847	
19,000.0	12,499.1	19,002.0	12,502.8	53.2	59.6	90.33		-6,573.9	-289.6	650.1	537.3	112.80	5.764	
19,100.0	12,499.6	19,102.0	12,503.3	54.0	60.4	90.33		-6,673.9	-288.8	650.1	535.7	114.40	5.683	
19,200.0	12,500.1	19,202.0	12,503.8	54.7	61.3	90.34		-6,773.9	-288.1	650.1	534.1	116.01	5.604	
19,300.0	12,500.5	19,302.0	12,504.3	55.5	62.1	90.34		-6,873.9	-287.3	650.1	532.5	117.61	5.528	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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)				
19,400.0	12,501.0	19,402.0	12,504.9	56.2	63.0	90.35	-6,973.9	-286.6	650.1	530.9	119.22	5.453		
19,500.0	12,501.5	19,502.0	12,505.4	57.0	63.9	90.35	-7,073.9	-285.9	650.1	529.3	120.83	5.381		
19,600.0	12,501.9	19,602.0	12,505.9	57.7	64.7	90.36	-7,173.9	-285.1	650.1	527.7	122.44	5.310		
19,700.0	12,502.4	19,702.0	12,506.4	58.5	65.6	90.36	-7,273.9	-284.4	650.1	526.1	124.04	5.241		
19,800.0	12,502.9	19,802.0	12,507.0	59.2	66.4	90.37	-7,373.9	-283.6	650.1	524.5	125.65	5.174		
19,900.0	12,503.4	19,902.0	12,507.5	60.0	67.3	90.37	-7,473.9	-282.9	650.2	522.9	127.26	5.109		
20,000.0	12,503.8	20,002.0	12,508.0	60.8	68.1	90.38	-7,573.9	-282.1	650.2	521.3	128.87	5.045		
20,100.0	12,504.3	20,102.0	12,508.6	61.5	69.0	90.38	-7,673.9	-281.4	650.2	519.7	130.49	4.983		
20,200.0	12,504.8	20,202.0	12,509.1	62.3	69.8	90.39	-7,773.9	-280.6	650.2	518.1	132.10	4.922		
20,300.0	12,505.2	20,302.0	12,509.6	63.0	70.7	90.39	-7,873.9	-279.9	650.2	516.5	133.71	4.863		
20,400.0	12,505.7	20,402.0	12,510.1	63.8	71.5	90.40	-7,973.9	-279.1	650.2	514.8	135.32	4.805		
20,500.0	12,506.2	20,502.0	12,510.7	64.5	72.4	90.40	-8,073.8	-278.4	650.2	513.2	136.93	4.748		
20,600.0	12,506.7	20,602.0	12,511.2	65.3	73.3	90.41	-8,173.8	-277.6	650.2	511.6	138.55	4.693		
20,700.0	12,507.1	20,702.0	12,511.7	66.1	74.1	90.41	-8,273.8	-276.9	650.2	510.0	140.16	4.639		
20,800.0	12,507.6	20,802.0	12,512.3	66.8	75.0	90.42	-8,373.8	-276.1	650.2	508.4	141.77	4.586		
20,900.0	12,508.1	20,902.0	12,512.8	67.6	75.8	90.42	-8,473.8	-275.4	650.2	506.8	143.39	4.534		
21,000.0	12,508.5	21,002.0	12,513.3	68.3	76.7	90.43	-8,573.8	-274.7	650.2	505.2	145.00	4.484		
21,100.0	12,509.0	21,102.0	12,513.8	69.1	77.5	90.43	-8,673.8	-273.9	650.2	503.6	146.62	4.435		
21,200.0	12,509.5	21,202.0	12,514.4	69.8	78.4	90.44	-8,773.8	-273.2	650.2	501.9	148.23	4.386		
21,300.0	12,510.0	21,302.0	12,514.9	70.6	79.3	90.44	-8,873.8	-272.4	650.2	500.3	149.85	4.339		
21,400.0	12,510.4	21,402.0	12,515.4	71.4	80.1	90.45	-8,973.8	-271.7	650.2	498.7	151.46	4.293		
21,500.0	12,510.9	21,502.0	12,516.0	72.1	81.0	90.45	-9,073.8	-270.9	650.2	497.1	153.08	4.247		
21,600.0	12,511.4	21,602.0	12,516.5	72.9	81.8	90.46	-9,173.8	-270.2	650.2	495.5	154.70	4.203		
21,700.0	12,511.8	21,702.0	12,517.0	73.6	82.7	90.46	-9,273.8	-269.4	650.2	493.9	156.31	4.160		
21,800.0	12,512.3	21,802.0	12,517.5	74.4	83.5	90.47	-9,373.8	-268.7	650.2	492.3	157.93	4.117		
21,900.0	12,512.8	21,902.0	12,518.1	75.1	84.4	90.47	-9,473.8	-267.9	650.2	490.6	159.55	4.075		
22,000.0	12,513.3	22,002.0	12,518.6	75.9	85.3	90.48	-9,573.8	-267.2	650.2	489.0	161.16	4.034		
22,100.0	12,513.7	22,102.0	12,519.1	76.7	86.1	90.48	-9,673.8	-266.4	650.2	487.4	162.78	3.994		
22,200.0	12,514.2	22,202.0	12,519.6	77.4	87.0	90.49	-9,773.8	-265.7	650.2	485.8	164.40	3.955		
22,300.0	12,514.7	22,302.0	12,520.2	78.2	87.8	90.49	-9,873.8	-265.0	650.2	484.2	166.02	3.916		
22,400.0	12,515.1	22,402.0	12,520.7	78.9	88.7	90.50	-9,973.8	-264.2	650.2	482.6	167.64	3.879		
22,500.0	12,515.6	22,502.0	12,521.2	79.7	89.6	90.50	-10,073.8	-263.5	650.2	481.0	169.25	3.842		
22,600.0	12,516.1	22,602.0	12,521.8	80.5	90.4	90.51	-10,173.8	-262.7	650.2	479.3	170.87	3.805		
22,700.0	12,516.6	22,702.0	12,522.3	81.2	91.3	90.51	-10,273.8	-262.0	650.2	477.7	172.49	3.770		
22,800.0	12,517.0	22,802.0	12,522.8	82.0	92.1	90.52	-10,373.7	-261.2	650.2	476.1	174.11	3.734		
22,900.0	12,517.5	22,902.0	12,523.3	82.7	93.0	90.52	-10,473.7	-260.5	650.2	474.5	175.73	3.700		
23,000.0	12,518.0	23,002.0	12,523.9	83.5	93.9	90.53	-10,573.7	-259.7	650.2	472.9	177.35	3.666		
23,100.0	12,518.4	23,102.0	12,524.4	84.3	94.7	90.53	-10,673.7	-259.0	650.2	471.3	178.97	3.633		
23,200.0	12,518.9	23,202.0	12,524.9	85.0	95.6	90.54	-10,773.7	-258.2	650.2	469.6	180.59	3.601		
23,300.0	12,519.4	23,302.0	12,525.5	85.8	96.4	90.54	-10,873.7	-257.5	650.2	468.0	182.21	3.569		
23,400.0	12,519.9	23,402.0	12,526.0	86.5	97.3	90.55	-10,973.7	-256.7	650.2	466.4	183.83	3.537		
23,500.0	12,520.3	23,502.0	12,526.5	87.3	98.1	90.55	-11,073.7	-256.0	650.2	464.8	185.45	3.506		
23,600.0	12,520.8	23,602.0	12,527.0	88.1	99.0	90.56	-11,173.7	-255.2	650.2	463.2	187.07	3.476		
23,700.0	12,521.3	23,702.0	12,527.6	88.8	99.9	90.56	-11,273.7	-254.5	650.2	461.5	188.69	3.446		
23,800.0	12,521.7	23,802.0	12,528.1	89.6	100.7	90.57	-11,373.7	-253.8	650.2	459.9	190.31	3.417		
23,900.0	12,522.2	23,902.0	12,528.6	90.4	101.6	90.57	-11,473.7	-253.0	650.2	458.3	191.94	3.388		
24,000.0	12,522.7	24,002.0	12,529.2	91.1	102.4	90.58	-11,573.7	-252.3	650.2	456.7	193.56	3.359		
24,100.0	12,523.2	24,102.0	12,529.7	91.9	103.3	90.58	-11,673.7	-251.5	650.2	455.1	195.18	3.332		
24,200.0	12,523.6	24,202.0	12,530.2	92.6	104.2	90.59	-11,773.7	-250.8	650.2	453.4	196.80	3.304		
24,300.0	12,524.1	24,302.0	12,530.7	93.4	105.0	90.59	-11,873.7	-250.0	650.3	451.8	198.42	3.277		
24,400.0	12,524.6	24,402.0	12,531.3	94.2	105.9	90.60	-11,973.7	-249.3	650.3	450.2	200.04	3.251		
24,500.0	12,525.0	24,502.0	12,531.8	94.9	106.7	90.60	-12,073.7	-248.5	650.3	448.6	201.67	3.224		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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 #603H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11913-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		Minimum Separation (usft)	Separation Factor	Warning	
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,600.0	12,525.5	24,602.0	12,532.3	95.7	107.6	90.61	-12,173.7	-247.8	650.3	447.0	203.29	3.199		
24,700.0	12,526.0	24,702.0	12,532.9	96.4	108.5	90.61	-12,273.7	-247.0	650.3	445.4	204.91	3.173		
24,800.0	12,526.5	24,802.0	12,533.4	97.2	109.3	90.62	-12,373.7	-246.3	650.3	443.7	206.53	3.148		
24,900.0	12,526.9	24,902.0	12,533.9	98.0	110.2	90.62	-12,473.7	-245.5	650.3	442.1	208.15	3.124		
25,000.0	12,527.4	25,002.0	12,534.4	98.7	111.1	90.63	-12,573.7	-244.8	650.3	440.5	209.78	3.100		
25,100.0	12,527.9	25,102.0	12,535.0	99.5	111.9	90.63	-12,673.7	-244.1	650.3	438.9	211.40	3.076		
25,200.0	12,528.3	25,202.0	12,535.5	100.3	112.8	90.64	-12,773.6	-243.3	650.3	437.3	213.02	3.053		
25,300.0	12,528.8	25,302.0	12,536.0	101.0	113.6	90.64	-12,873.6	-242.6	650.3	435.6	214.65	3.030		
25,400.0	12,529.3	25,402.0	12,536.5	101.8	114.5	90.65	-12,973.6	-241.8	650.3	434.0	216.27	3.007		
25,500.0	12,529.8	25,502.0	12,537.1	102.5	115.4	90.65	-13,073.6	-241.1	650.3	432.4	217.89	2.984		
25,600.0	12,530.2	25,602.0	12,537.6	103.3	116.2	90.66	-13,173.6	-240.3	650.3	430.8	219.52	2.962		
25,700.0	12,530.7	25,702.0	12,538.1	104.1	117.1	90.66	-13,273.6	-239.6	650.3	429.1	221.14	2.941		
25,800.0	12,531.2	25,802.0	12,538.7	104.8	117.9	90.67	-13,373.6	-238.8	650.3	427.5	222.76	2.919		
25,900.0	12,531.6	25,902.0	12,539.2	105.6	118.8	90.67	-13,473.6	-238.1	650.3	425.9	224.39	2.898		
26,000.0	12,532.1	26,002.0	12,539.7	106.4	119.7	90.68	-13,573.6	-237.3	650.3	424.3	226.01	2.877		
26,100.0	12,532.6	26,102.0	12,540.2	107.1	120.5	90.68	-13,673.6	-236.6	650.3	422.7	227.63	2.857		
26,200.0	12,533.1	26,202.0	12,540.8	107.9	121.4	90.69	-13,773.6	-235.8	650.3	421.0	229.26	2.837		
26,300.0	12,533.5	26,302.0	12,541.3	108.6	122.2	90.69	-13,873.6	-235.1	650.3	419.4	230.88	2.817		
26,400.0	12,534.0	26,402.0	12,541.8	109.4	123.1	90.70	-13,973.6	-234.3	650.3	417.8	232.50	2.797		
26,500.0	12,534.5	26,502.0	12,542.4	110.2	124.0	90.70	-14,073.6	-233.6	650.3	416.2	234.13	2.778		
26,600.0	12,534.9	26,602.0	12,542.9	110.9	124.8	90.71	-14,173.6	-232.9	650.3	414.6	235.75	2.758		
26,629.0	12,535.1	26,631.0	12,543.0	111.1	125.1	90.71	-14,202.6	-232.6	650.3	414.1	236.22	2.753 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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Distance 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	-0.2	-59.9	59.9				
100.0	100.0	99.7	99.7	3.0	3.0	3.0	-90.19	-0.2	-59.9	59.9	53.9	6.00	9.983	
200.0	200.0	199.7	199.7	3.0	3.0	3.0	-90.19	-0.2	-59.9	59.9	53.9	6.00	9.978	
300.0	300.0	299.7	299.7	3.0	3.0	3.0	-90.19	-0.2	-59.9	59.9	53.9	6.01	9.969	
400.0	400.0	399.7	399.7	3.0	3.0	3.0	-90.19	-0.2	-59.9	59.9	53.9	6.02	9.953	
500.0	500.0	499.7	499.7	3.1	3.1	3.1	-90.19	-0.2	-59.9	59.9	53.9	6.03	9.933	
600.0	600.0	599.7	599.7	3.1	3.1	3.1	-90.19	-0.2	-59.9	59.9	53.9	6.05	9.907	
700.0	700.0	699.7	699.7	3.1	3.1	3.1	-90.19	-0.2	-59.9	59.9	53.8	6.07	9.876	
800.0	800.0	799.7	799.7	3.2	3.2	3.2	-90.19	-0.2	-59.9	59.9	53.8	6.09	9.841	
900.0	900.0	899.7	899.7	3.2	3.2	3.2	-90.19	-0.2	-59.9	59.9	53.8	6.11	9.800	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	3.2	-90.19	-0.2	-59.9	59.9	53.8	6.14	9.755	
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	3.3	-90.19	-0.2	-59.9	59.9	53.7	6.17	9.706	
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	3.4	-90.19	-0.2	-59.9	59.9	53.7	6.21	9.652	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	3.4	-90.19	-0.2	-59.9	59.9	53.7	6.24	9.595	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	3.5	-90.19	-0.2	-59.9	59.9	53.6	6.28	9.534	
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	3.5	-90.19	-0.2	-59.9	59.9	53.6	6.33	9.469	
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	3.6	-90.19	-0.2	-59.9	59.9	53.5	6.37	9.402	
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	3.7	-90.19	-0.2	-59.9	59.9	53.5	6.42	9.331	
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	3.8	-90.19	-0.2	-59.9	59.9	53.4	6.47	9.257	
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	3.9	-90.19	-0.2	-59.9	59.9	53.4	6.52	9.181	
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	3.9	-90.19	-0.2	-59.9	59.9	53.3	6.58	9.103	
2,100.0	2,100.0	2,099.7	2,099.7	4.0	4.0	4.0	-90.19	-0.2	-59.9	59.9	53.3	6.64	9.023	
2,200.0	2,200.0	2,199.7	2,199.7	4.1	4.1	4.1	-90.19	-0.2	-59.9	59.9	53.2	6.70	8.941	
2,300.0	2,300.0	2,299.7	2,299.7	4.2	4.2	4.2	-90.19	-0.2	-59.9	59.9	53.1	6.76	8.857	
2,400.0	2,400.0	2,399.7	2,399.7	4.3	4.3	4.3	-90.19	-0.2	-59.9	59.9	53.1	6.83	8.772	
2,500.0	2,500.0	2,499.7	2,499.7	4.4	4.4	4.4	-90.19	-0.2	-59.9	59.9	53.0	6.90	8.686	CC, ES, SF
2,600.0	2,600.0	2,597.6	2,597.6	4.5	4.5	4.5	-148.98	0.1	-61.5	63.1	56.1	6.97	9.052	
2,700.0	2,699.8	2,694.9	2,694.7	4.5	4.5	4.5	-150.12	1.2	-66.4	72.5	65.5	7.04	10.299	
2,750.0	2,749.7	2,743.1	2,742.8	4.6	4.5	4.5	-150.79	1.9	-70.0	79.6	72.5	7.08	11.240	
2,800.0	2,799.5	2,791.4	2,790.9	4.6	4.6	4.6	-151.40	2.8	-74.4	87.9	80.8	7.13	12.331	
2,900.0	2,899.1	2,890.0	2,889.0	4.7	4.6	4.6	-152.30	4.8	-83.8	104.9	97.7	7.22	14.521	
3,000.0	2,998.7	2,988.5	2,987.1	4.8	4.7	4.7	-152.94	6.8	-93.1	121.9	114.6	7.33	16.641	
3,100.0	3,098.4	3,087.0	3,085.1	4.8	4.7	4.7	-153.43	8.7	-102.5	139.0	131.5	7.44	18.689	
3,200.0	3,198.0	3,185.6	3,183.2	4.9	4.8	4.8	-153.81	10.7	-111.9	156.0	148.5	7.55	20.663	
3,300.0	3,297.6	3,284.1	3,281.3	5.0	4.8	4.8	-154.11	12.7	-121.3	173.1	165.4	7.67	22.562	
3,400.0	3,397.2	3,382.6	3,379.3	5.1	4.9	4.9	-154.36	14.6	-130.7	190.1	182.3	7.80	24.385	
3,500.0	3,496.8	3,481.2	3,477.4	5.1	5.0	5.0	-154.57	16.6	-140.1	207.2	199.3	7.93	26.132	
3,600.0	3,596.4	3,579.7	3,575.4	5.2	5.0	5.0	-154.75	18.6	-149.4	224.3	216.2	8.07	27.805	
3,700.0	3,696.1	3,678.2	3,673.5	5.3	5.1	5.1	-154.90	20.5	-158.8	241.3	233.1	8.21	29.405	
3,800.0	3,795.7	3,776.8	3,771.6	5.4	5.2	5.2	-155.03	22.5	-168.2	258.4	250.0	8.35	30.932	
3,900.0	3,895.3	3,875.3	3,869.6	5.5	5.3	5.3	-155.15	24.5	-177.6	275.4	266.9	8.50	32.390	
4,000.0	3,994.9	3,973.8	3,967.7	5.6	5.3	5.3	-155.25	26.4	-187.0	292.5	283.9	8.66	33.780	
4,100.0	4,094.5	4,072.3	4,065.8	5.7	5.4	5.4	-155.34	28.4	-196.4	309.6	300.8	8.82	35.104	
4,200.0	4,194.2	4,170.9	4,163.8	5.8	5.5	5.5	-155.42	30.4	-205.8	326.7	317.7	8.98	36.365	
4,300.0	4,293.8	4,269.4	4,261.9	5.9	5.6	5.6	-155.49	32.3	-215.1	343.7	334.6	9.15	37.565	
4,400.0	4,393.4	4,367.9	4,360.0	6.0	5.7	5.7	-155.56	34.3	-224.5	360.8	351.5	9.32	38.707	
4,500.0	4,493.0	4,466.5	4,458.0	6.1	5.8	5.8	-155.62	36.3	-233.9	377.9	368.4	9.50	39.794	
4,600.0	4,592.6	4,565.0	4,556.1	6.2	5.8	5.8	-155.68	38.2	-243.3	394.9	385.3	9.67	40.828	
4,700.0	4,692.3	4,663.5	4,654.2	6.3	5.9	5.9	-155.73	40.2	-252.7	412.0	402.1	9.85	41.811	
4,800.0	4,791.9	4,762.1	4,752.2	6.4	6.0	6.0	-155.77	42.2	-262.1	429.1	419.0	10.04	42.745	
4,900.0	4,891.5	4,860.6	4,850.3	6.5	6.1	6.1	-155.82	44.1	-271.4	446.1	435.9	10.22	43.635	
5,000.0	4,991.1	4,959.1	4,948.3	6.6	6.2	6.2	-155.86	46.1	-280.8	463.2	452.8	10.41	44.480	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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	5,057.7	5,046.4	6.7	6.3	-155.89	48.1	-290.2	480.3	469.7	10.61	45.285		
5,200.0	5,190.4	5,156.2	5,144.5	6.8	6.4	-155.93	50.0	-299.6	497.4	486.6	10.80	46.050		
5,300.0	5,290.0	5,254.7	5,242.5	6.9	6.5	-155.96	52.0	-309.0	514.4	503.4	11.00	46.778		
5,400.0	5,389.6	5,353.3	5,340.6	7.0	6.6	-155.99	54.0	-318.4	531.5	520.3	11.20	47.471		
5,500.0	5,489.2	5,451.8	5,438.7	7.1	6.7	-156.02	55.9	-327.7	548.6	537.2	11.40	48.131		
5,600.0	5,588.8	5,550.3	5,536.7	7.2	6.8	-156.05	57.9	-337.1	565.6	554.0	11.60	48.759		
5,700.0	5,688.5	5,648.9	5,634.8	7.3	6.9	-156.07	59.9	-346.5	582.7	570.9	11.81	49.358		
5,800.0	5,788.1	5,747.4	5,732.9	7.5	7.0	-156.09	61.8	-355.9	599.8	587.8	12.01	49.928		
5,900.0	5,887.7	5,845.9	5,830.9	7.6	7.1	-156.12	63.8	-365.3	616.9	604.6	12.22	50.471		
6,000.0	5,987.3	5,944.4	5,929.0	7.7	7.2	-156.14	65.8	-374.7	633.9	621.5	12.43	50.990		
6,100.0	6,086.9	6,043.0	6,027.0	7.8	7.3	-156.16	67.7	-384.1	651.0	638.4	12.65	51.484		
6,200.0	6,186.6	6,141.5	6,125.1	7.9	7.4	-156.18	69.7	-393.4	668.1	655.2	12.86	51.955		
6,300.0	6,286.2	6,240.0	6,223.2	8.0	7.5	-156.19	71.7	-402.8	685.2	672.1	13.07	52.405		
6,400.0	6,385.8	6,338.6	6,321.2	8.1	7.7	-156.21	73.6	-412.2	702.2	688.9	13.29	52.834		
6,500.0	6,485.4	6,437.1	6,419.3	8.2	7.8	-156.23	75.6	-421.6	719.3	705.8	13.51	53.244		
6,553.1	6,538.3	6,489.4	6,471.4	8.3	7.8	-156.24	76.7	-426.6	728.4	714.7	13.63	53.454		
6,600.0	6,585.0	6,535.7	6,517.4	8.4	7.9	-156.27	77.6	-431.0	736.2	722.5	13.73	53.623		
6,700.0	6,684.8	6,634.4	6,615.7	8.5	8.0	-156.29	79.6	-440.4	751.8	737.8	13.95	53.892		
6,800.0	6,784.7	6,733.5	6,714.3	8.6	8.1	-156.26	81.5	-449.8	765.7	751.5	14.17	54.045		
6,900.0	6,884.6	6,832.7	6,813.0	8.7	8.2	-156.17	83.5	-459.3	778.1	763.7	14.39	54.086		
7,000.0	6,984.6	6,932.1	6,911.9	8.8	8.3	-156.03	85.5	-468.7	788.9	774.3	14.61	54.015		
7,053.1	7,037.7	6,984.9	6,964.5	8.9	8.4	-97.61	86.5	-473.8	794.0	779.3	14.71	53.987		
7,100.0	7,084.6	7,031.6	7,010.9	8.9	8.4	-97.50	87.5	-478.2	798.3	783.5	14.79	53.994		
7,200.0	7,184.6	7,131.1	7,110.0	9.0	8.5	-97.27	89.5	-487.7	807.5	792.6	14.95	54.008		
7,300.0	7,284.6	7,230.6	7,209.0	9.1	8.7	-97.05	91.5	-497.2	816.7	801.6	15.12	54.020		
7,400.0	7,384.6	7,330.1	7,308.1	9.3	8.8	-96.83	93.4	-506.6	825.9	810.6	15.29	54.030		
7,500.0	7,484.6	7,429.7	7,407.1	9.4	8.9	-96.61	95.4	-516.1	835.2	819.7	15.45	54.039		
7,600.0	7,584.6	7,529.2	7,506.2	9.5	9.0	-96.40	97.4	-525.6	844.4	828.8	15.62	54.046		
7,700.0	7,684.6	7,628.7	7,605.3	9.6	9.1	-96.20	99.4	-535.1	853.7	837.9	15.79	54.051		
7,800.0	7,784.6	7,728.2	7,704.3	9.7	9.2	-96.00	101.4	-544.6	862.9	847.0	15.96	54.055		
7,900.0	7,884.6	7,827.8	7,803.4	9.8	9.4	-95.80	103.4	-554.0	872.2	856.1	16.13	54.057		
8,000.0	7,984.6	7,927.3	7,902.4	9.9	9.5	-95.61	105.4	-563.5	881.5	865.2	16.31	54.058		
8,100.0	8,084.6	8,026.8	8,001.5	10.0	9.6	-95.43	107.3	-573.0	890.8	874.3	16.48	54.058		
8,200.0	8,184.6	8,126.3	8,100.5	10.1	9.7	-95.24	109.3	-582.5	900.1	883.4	16.65	54.057		
8,300.0	8,284.6	8,225.9	8,199.6	10.3	9.8	-95.06	111.3	-592.0	909.4	892.6	16.82	54.054		
8,400.0	8,384.6	8,325.4	8,298.6	10.4	10.0	-94.89	113.3	-601.4	918.7	901.7	17.00	54.051		
8,500.0	8,484.6	8,424.9	8,397.7	10.5	10.1	-94.71	115.3	-610.9	928.0	910.8	17.17	54.046		
8,600.0	8,584.6	8,524.4	8,496.7	10.6	10.2	-94.54	117.3	-620.4	937.4	920.0	17.35	54.041		
8,700.0	8,684.6	8,624.0	8,595.8	10.7	10.3	-94.38	119.3	-629.9	946.7	929.2	17.52	54.034		
8,800.0	8,784.6	8,723.5	8,694.8	10.8	10.4	-94.21	121.3	-639.3	956.1	938.4	17.70	54.027		
8,900.0	8,884.6	8,823.0	8,793.9	10.9	10.6	-94.05	123.2	-648.8	965.4	947.5	17.87	54.018		
9,000.0	8,984.6	8,922.5	8,892.9	11.1	10.7	-93.90	125.2	-658.3	974.8	956.7	18.05	54.009		
9,100.0	9,084.6	9,022.1	8,992.0	11.2	10.8	-93.74	127.2	-667.8	984.1	965.9	18.23	53.999		
9,200.0	9,184.6	9,121.6	9,091.0	11.3	10.9	-93.59	129.2	-677.3	993.5	975.1	18.40	53.989		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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' @ 3746.5usft (TBD)

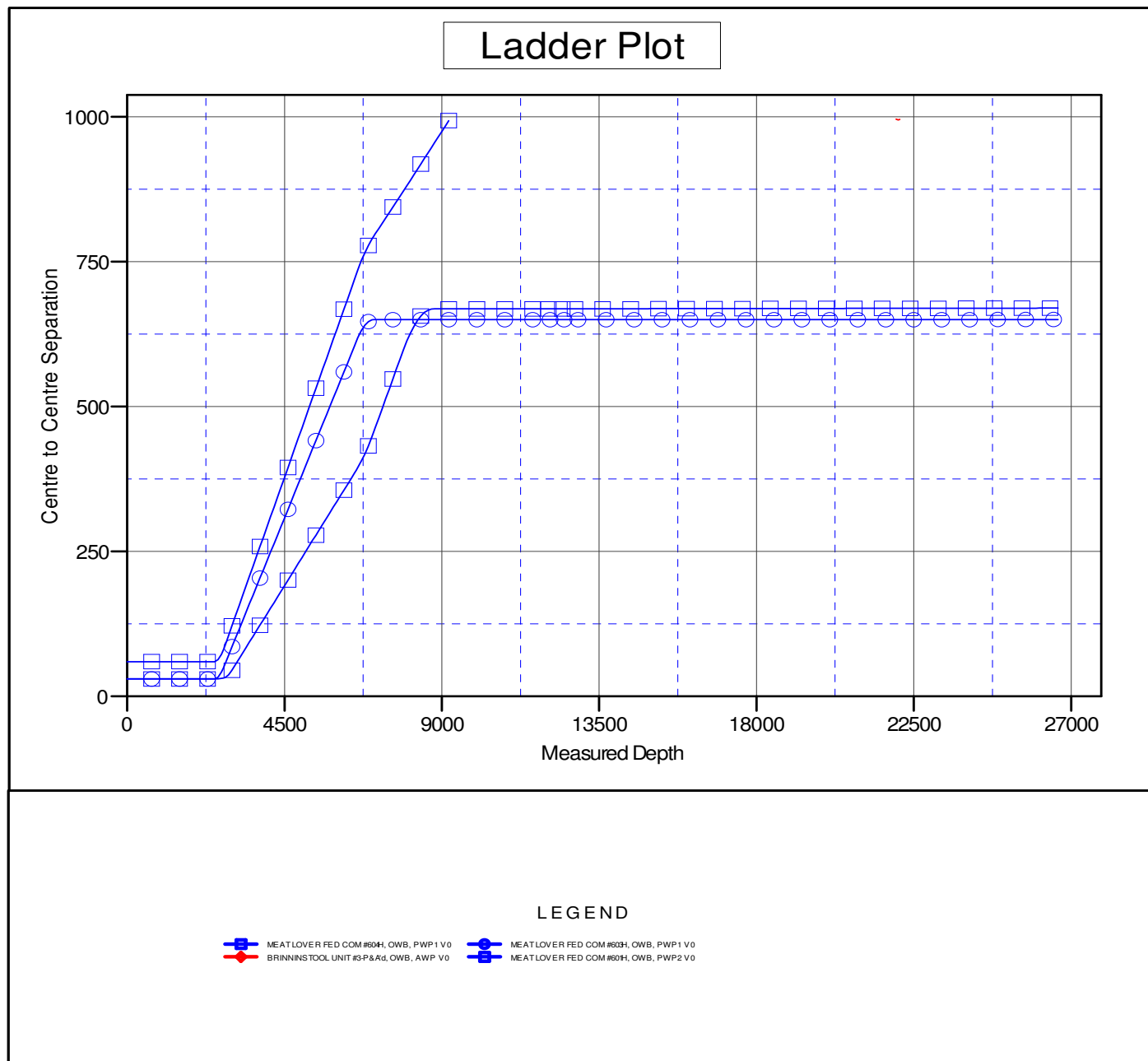
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MEAT LOVER FED COM #602H

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

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Reference Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	MEAT LOVER FED COM #602H	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' @ 3746.5usft (TBD)

Offset Depths are relative to Offset Datum

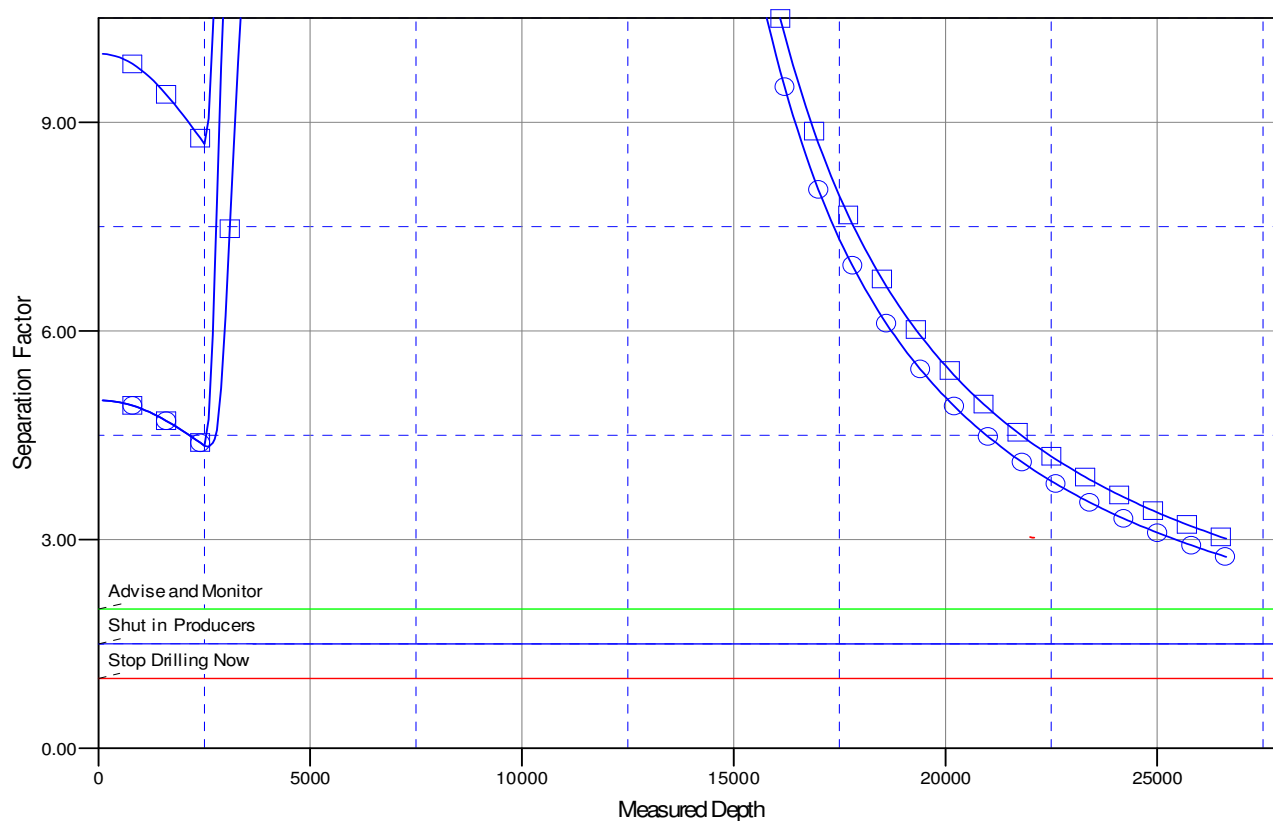
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MEAT LOVER FED COM #602H

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

Grid Convergence at Surface is: 0.39°

Separation Factor Plot



LEGEND

MEAT LOVER FED COM #604H, OWB, PWP1 V0
 MEAT LOVER FED COM #603H, OWB, PWP1 V0
 MEAT LOVER FED COM #602H, OWB, PWP2 V0

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
MEAT LOVER FED COM PROJECT
MEAT LOVER FED COM #602H**

OWB

Plan: PWP2

Standard Survey Report

25 April, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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 #602H		
Well Position	+N/-S	0.0 usft	Northing: 477,675.40 usft
	+E/-W	0.0 usft	Easting: 724,497.60 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 18' 40.155 N
		Longitude:	103° 36' 24.044 W
		Ground Level:	3,716.5 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	4/25/2022	6.47
			Dip Angle (°)
			59.98
			Field Strength (nT)
			47,667.87671005

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 (°)
			178.32

Survey Tool Program	Date	4/25/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,912.4	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,912.4	26,629.0	PWP2 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station 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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	58.33	2,600.0	0.9	1.5	-0.9	2.00	2.00	0.00
2,700.0	4.00	58.33	2,699.8	3.7	5.9	-3.5	2.00	2.00	0.00
2,750.0	5.00	58.33	2,749.7	5.7	9.3	-5.4	2.00	2.00	0.00
Start 3803.1 hold at 2750.0 MD									
2,800.0	5.00	58.33	2,799.5	8.0	13.0	-7.6	0.00	0.00	0.00
2,900.0	5.00	58.33	2,899.1	12.6	20.4	-12.0	0.00	0.00	0.00
3,000.0	5.00	58.33	2,998.7	17.2	27.8	-16.3	0.00	0.00	0.00
3,100.0	5.00	58.33	3,098.4	21.7	35.2	-20.7	0.00	0.00	0.00
3,200.0	5.00	58.33	3,198.0	26.3	42.7	-25.0	0.00	0.00	0.00
3,300.0	5.00	58.33	3,297.6	30.9	50.1	-29.4	0.00	0.00	0.00
3,400.0	5.00	58.33	3,397.2	35.5	57.5	-33.8	0.00	0.00	0.00
3,500.0	5.00	58.33	3,496.8	40.0	64.9	-38.1	0.00	0.00	0.00
3,600.0	5.00	58.33	3,596.4	44.6	72.3	-42.5	0.00	0.00	0.00
3,700.0	5.00	58.33	3,696.1	49.2	79.7	-46.8	0.00	0.00	0.00
3,800.0	5.00	58.33	3,795.7	53.8	87.2	-51.2	0.00	0.00	0.00
3,900.0	5.00	58.33	3,895.3	58.3	94.6	-55.5	0.00	0.00	0.00
4,000.0	5.00	58.33	3,994.9	62.9	102.0	-59.9	0.00	0.00	0.00
4,100.0	5.00	58.33	4,094.5	67.5	109.4	-64.3	0.00	0.00	0.00
4,200.0	5.00	58.33	4,194.2	72.1	116.8	-68.6	0.00	0.00	0.00
4,300.0	5.00	58.33	4,293.8	76.7	124.3	-73.0	0.00	0.00	0.00
4,400.0	5.00	58.33	4,393.4	81.2	131.7	-77.3	0.00	0.00	0.00
4,500.0	5.00	58.33	4,493.0	85.8	139.1	-81.7	0.00	0.00	0.00
4,600.0	5.00	58.33	4,592.6	90.4	146.5	-86.0	0.00	0.00	0.00
4,700.0	5.00	58.33	4,692.3	95.0	153.9	-90.4	0.00	0.00	0.00
4,800.0	5.00	58.33	4,791.9	99.5	161.3	-94.7	0.00	0.00	0.00
4,900.0	5.00	58.33	4,891.5	104.1	168.8	-99.1	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	58.33	4,991.1	108.7	176.2	-103.5	0.00	0.00	0.00	
5,100.0	5.00	58.33	5,090.7	113.3	183.6	-107.8	0.00	0.00	0.00	
5,200.0	5.00	58.33	5,190.4	117.8	191.0	-112.2	0.00	0.00	0.00	
5,300.0	5.00	58.33	5,290.0	122.4	198.4	-116.5	0.00	0.00	0.00	
5,400.0	5.00	58.33	5,389.6	127.0	205.8	-120.9	0.00	0.00	0.00	
5,500.0	5.00	58.33	5,489.2	131.6	213.3	-125.2	0.00	0.00	0.00	
5,600.0	5.00	58.33	5,588.8	136.1	220.7	-129.6	0.00	0.00	0.00	
5,700.0	5.00	58.33	5,688.5	140.7	228.1	-133.9	0.00	0.00	0.00	
5,800.0	5.00	58.33	5,788.1	145.3	235.5	-138.3	0.00	0.00	0.00	
5,900.0	5.00	58.33	5,887.7	149.9	242.9	-142.7	0.00	0.00	0.00	
6,000.0	5.00	58.33	5,987.3	154.4	250.4	-147.0	0.00	0.00	0.00	
6,100.0	5.00	58.33	6,086.9	159.0	257.8	-151.4	0.00	0.00	0.00	
6,200.0	5.00	58.33	6,186.6	163.6	265.2	-155.7	0.00	0.00	0.00	
6,300.0	5.00	58.33	6,286.2	168.2	272.6	-160.1	0.00	0.00	0.00	
6,400.0	5.00	58.33	6,385.8	172.7	280.0	-164.4	0.00	0.00	0.00	
6,500.0	5.00	58.33	6,485.4	177.3	287.4	-168.8	0.00	0.00	0.00	
6,553.1	5.00	58.33	6,538.3	179.8	291.4	-171.1	0.00	0.00	0.00	
Start Drop -1.00										
6,600.0	4.53	58.33	6,585.0	181.8	294.7	-173.1	1.00	-1.00	0.00	
6,700.0	3.53	58.33	6,684.8	185.5	300.7	-176.6	1.00	-1.00	0.00	
6,800.0	2.53	58.33	6,784.7	188.3	305.2	-179.2	1.00	-1.00	0.00	
6,900.0	1.53	58.33	6,884.6	190.1	308.2	-181.0	1.00	-1.00	0.00	
7,000.0	0.53	58.33	6,984.6	191.1	309.7	-181.9	1.00	-1.00	0.00	
7,053.1	0.00	0.00	7,037.7	191.2	309.9	-182.0	1.00	-1.00	0.00	
Start 4859.3 hold at 7053.1 MD										
7,100.0	0.00	0.00	7,084.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,184.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,284.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,384.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,484.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,584.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,684.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,784.6	191.2	309.9	-182.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,884.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,984.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,084.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,184.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,284.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,384.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,484.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,584.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,684.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,784.6	191.2	309.9	-182.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,884.6	191.2	309.9	-182.0	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	8,984.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,384.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,484.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,584.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,684.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,784.6	191.2	309.9	-182.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,884.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,984.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,084.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,184.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,284.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,384.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,484.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,584.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,684.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,784.6	191.2	309.9	-182.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,884.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,984.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,084.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,184.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,284.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,384.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,484.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,584.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,684.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,784.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,884.6	191.2	309.9	-182.0	0.00	0.00	0.00
11,912.4	0.00	0.00	11,897.0	191.2	309.9	-182.0	0.00	0.00	0.00
Start Build 10.00									
11,950.0	3.76	179.57	11,934.5	190.0	309.9	-180.8	10.00	10.00	0.00
12,000.0	8.76	179.57	11,984.2	184.5	310.0	-175.3	10.00	10.00	0.00
12,050.0	13.76	179.57	12,033.3	174.8	310.1	-165.6	10.00	10.00	0.00
12,100.0	18.76	179.57	12,081.2	160.8	310.2	-151.6	10.00	10.00	0.00
12,150.0	23.76	179.57	12,127.8	142.6	310.3	-133.5	10.00	10.00	0.00
12,200.0	28.76	179.57	12,172.7	120.5	310.5	-111.4	10.00	10.00	0.00
12,250.0	33.76	179.57	12,215.4	94.6	310.7	-85.4	10.00	10.00	0.00
12,300.0	38.76	179.57	12,255.7	65.0	310.9	-55.9	10.00	10.00	0.00
12,350.0	43.76	179.57	12,293.3	32.1	311.1	-22.9	10.00	10.00	0.00
12,400.0	48.76	179.57	12,327.8	-4.0	311.4	13.2	10.00	10.00	0.00
12,450.0	53.76	179.57	12,359.1	-43.0	311.7	52.2	10.00	10.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	58.76	179.57	12,386.9	-84.6	312.0	93.7	10.00	10.00	0.00	
12,550.0	63.76	179.57	12,410.9	-128.4	312.3	137.5	10.00	10.00	0.00	
12,600.0	68.76	179.57	12,431.0	-174.2	312.7	183.3	10.00	10.00	0.00	
12,650.0	73.76	179.57	12,447.1	-221.5	313.0	230.6	10.00	10.00	0.00	
12,700.0	78.76	179.57	12,459.0	-270.0	313.4	279.1	10.00	10.00	0.00	
12,750.0	83.76	179.57	12,466.6	-319.4	313.8	328.5	10.00	10.00	0.00	
12,800.0	88.76	179.57	12,469.8	-369.3	314.1	378.4	10.00	10.00	0.00	
12,809.7	89.73	179.57	12,470.0	-379.0	314.2	388.1	10.00	10.00	0.00	
Start 13819.3 hold at 12809.7 MD										
12,900.0	89.73	179.57	12,470.4	-469.3	314.9	478.4	0.00	0.00	0.00	
13,000.0	89.73	179.57	12,470.8	-569.3	315.6	578.3	0.00	0.00	0.00	
13,100.0	89.73	179.57	12,471.3	-669.3	316.4	678.3	0.00	0.00	0.00	
13,200.0	89.73	179.57	12,471.8	-769.3	317.1	778.3	0.00	0.00	0.00	
13,300.0	89.73	179.57	12,472.3	-869.3	317.9	878.3	0.00	0.00	0.00	
13,400.0	89.73	179.57	12,472.7	-969.3	318.6	978.2	0.00	0.00	0.00	
13,500.0	89.73	179.57	12,473.2	-1,069.3	319.4	1,078.2	0.00	0.00	0.00	
13,600.0	89.73	179.57	12,473.7	-1,169.3	320.1	1,178.2	0.00	0.00	0.00	
13,700.0	89.73	179.57	12,474.1	-1,269.3	320.9	1,278.2	0.00	0.00	0.00	
13,800.0	89.73	179.57	12,474.6	-1,369.3	321.6	1,378.1	0.00	0.00	0.00	
13,900.0	89.73	179.57	12,475.1	-1,469.3	322.4	1,478.1	0.00	0.00	0.00	
14,000.0	89.73	179.57	12,475.6	-1,569.3	323.1	1,578.1	0.00	0.00	0.00	
14,100.0	89.73	179.57	12,476.0	-1,669.3	323.9	1,678.1	0.00	0.00	0.00	
14,200.0	89.73	179.57	12,476.5	-1,769.3	324.6	1,778.0	0.00	0.00	0.00	
14,300.0	89.73	179.57	12,477.0	-1,869.3	325.4	1,878.0	0.00	0.00	0.00	
14,400.0	89.73	179.57	12,477.4	-1,969.3	326.1	1,978.0	0.00	0.00	0.00	
14,500.0	89.73	179.57	12,477.9	-2,069.3	326.8	2,078.0	0.00	0.00	0.00	
14,600.0	89.73	179.57	12,478.4	-2,169.2	327.6	2,177.9	0.00	0.00	0.00	
14,700.0	89.73	179.57	12,478.9	-2,269.2	328.3	2,277.9	0.00	0.00	0.00	
14,800.0	89.73	179.57	12,479.3	-2,369.2	329.1	2,377.9	0.00	0.00	0.00	
14,900.0	89.73	179.57	12,479.8	-2,469.2	329.8	2,477.9	0.00	0.00	0.00	
15,000.0	89.73	179.57	12,480.3	-2,569.2	330.6	2,577.8	0.00	0.00	0.00	
15,100.0	89.73	179.57	12,480.7	-2,669.2	331.3	2,677.8	0.00	0.00	0.00	
15,200.0	89.73	179.57	12,481.2	-2,769.2	332.1	2,777.8	0.00	0.00	0.00	
15,300.0	89.73	179.57	12,481.7	-2,869.2	332.8	2,877.8	0.00	0.00	0.00	
15,400.0	89.73	179.57	12,482.2	-2,969.2	333.6	2,977.7	0.00	0.00	0.00	
15,500.0	89.73	179.57	12,482.6	-3,069.2	334.3	3,077.7	0.00	0.00	0.00	
15,600.0	89.73	179.57	12,483.1	-3,169.2	335.1	3,177.7	0.00	0.00	0.00	
15,700.0	89.73	179.57	12,483.6	-3,269.2	335.8	3,277.7	0.00	0.00	0.00	
15,800.0	89.73	179.57	12,484.0	-3,369.2	336.6	3,377.6	0.00	0.00	0.00	
15,900.0	89.73	179.57	12,484.5	-3,469.2	337.3	3,477.6	0.00	0.00	0.00	
16,000.0	89.73	179.57	12,485.0	-3,569.2	338.1	3,577.6	0.00	0.00	0.00	
16,100.0	89.73	179.57	12,485.5	-3,669.2	338.8	3,677.6	0.00	0.00	0.00	
16,200.0	89.73	179.57	12,485.9	-3,769.2	339.6	3,777.5	0.00	0.00	0.00	
16,300.0	89.73	179.57	12,486.4	-3,869.2	340.3	3,877.5	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	89.73	179.57	12,486.9	-3,969.2	341.1	3,977.5	0.00	0.00	0.00
16,500.0	89.73	179.57	12,487.3	-4,069.2	341.8	4,077.5	0.00	0.00	0.00
16,600.0	89.73	179.57	12,487.8	-4,169.2	342.6	4,177.4	0.00	0.00	0.00
16,700.0	89.73	179.57	12,488.3	-4,269.2	343.3	4,277.4	0.00	0.00	0.00
16,800.0	89.73	179.57	12,488.8	-4,369.2	344.1	4,377.4	0.00	0.00	0.00
16,900.0	89.73	179.57	12,489.2	-4,469.2	344.8	4,477.4	0.00	0.00	0.00
17,000.0	89.73	179.57	12,489.7	-4,569.2	345.6	4,577.3	0.00	0.00	0.00
17,100.0	89.73	179.57	12,490.2	-4,669.2	346.3	4,677.3	0.00	0.00	0.00
17,200.0	89.73	179.57	12,490.6	-4,769.1	347.1	4,777.3	0.00	0.00	0.00
17,300.0	89.73	179.57	12,491.1	-4,869.1	347.8	4,877.3	0.00	0.00	0.00
17,400.0	89.73	179.57	12,491.6	-4,969.1	348.5	4,977.2	0.00	0.00	0.00
17,500.0	89.73	179.57	12,492.1	-5,069.1	349.3	5,077.2	0.00	0.00	0.00
17,600.0	89.73	179.57	12,492.5	-5,169.1	350.0	5,177.2	0.00	0.00	0.00
17,700.0	89.73	179.57	12,493.0	-5,269.1	350.8	5,277.2	0.00	0.00	0.00
17,800.0	89.73	179.57	12,493.5	-5,369.1	351.5	5,377.1	0.00	0.00	0.00
17,900.0	89.73	179.57	12,493.9	-5,469.1	352.3	5,477.1	0.00	0.00	0.00
18,000.0	89.73	179.57	12,494.4	-5,569.1	353.0	5,577.1	0.00	0.00	0.00
18,100.0	89.73	179.57	12,494.9	-5,669.1	353.8	5,677.1	0.00	0.00	0.00
18,200.0	89.73	179.57	12,495.4	-5,769.1	354.5	5,777.0	0.00	0.00	0.00
18,300.0	89.73	179.57	12,495.8	-5,869.1	355.3	5,877.0	0.00	0.00	0.00
18,400.0	89.73	179.57	12,496.3	-5,969.1	356.0	5,977.0	0.00	0.00	0.00
18,500.0	89.73	179.57	12,496.8	-6,069.1	356.8	6,077.0	0.00	0.00	0.00
18,600.0	89.73	179.57	12,497.2	-6,169.1	357.5	6,176.9	0.00	0.00	0.00
18,700.0	89.73	179.57	12,497.7	-6,269.1	358.3	6,276.9	0.00	0.00	0.00
18,800.0	89.73	179.57	12,498.2	-6,369.1	359.0	6,376.9	0.00	0.00	0.00
18,900.0	89.73	179.57	12,498.7	-6,469.1	359.8	6,476.9	0.00	0.00	0.00
19,000.0	89.73	179.57	12,499.1	-6,569.1	360.5	6,576.8	0.00	0.00	0.00
19,100.0	89.73	179.57	12,499.6	-6,669.1	361.3	6,676.8	0.00	0.00	0.00
19,200.0	89.73	179.57	12,500.1	-6,769.1	362.0	6,776.8	0.00	0.00	0.00
19,300.0	89.73	179.57	12,500.5	-6,869.1	362.8	6,876.8	0.00	0.00	0.00
19,400.0	89.73	179.57	12,501.0	-6,969.1	363.5	6,976.7	0.00	0.00	0.00
19,500.0	89.73	179.57	12,501.5	-7,069.1	364.3	7,076.7	0.00	0.00	0.00
19,600.0	89.73	179.57	12,501.9	-7,169.1	365.0	7,176.7	0.00	0.00	0.00
19,700.0	89.73	179.57	12,502.4	-7,269.0	365.8	7,276.7	0.00	0.00	0.00
19,800.0	89.73	179.57	12,502.9	-7,369.0	366.5	7,376.6	0.00	0.00	0.00
19,900.0	89.73	179.57	12,503.4	-7,469.0	367.3	7,476.6	0.00	0.00	0.00
20,000.0	89.73	179.57	12,503.8	-7,569.0	368.0	7,576.6	0.00	0.00	0.00
20,100.0	89.73	179.57	12,504.3	-7,669.0	368.7	7,676.6	0.00	0.00	0.00
20,200.0	89.73	179.57	12,504.8	-7,769.0	369.5	7,776.5	0.00	0.00	0.00
20,300.0	89.73	179.57	12,505.2	-7,869.0	370.2	7,876.5	0.00	0.00	0.00
20,400.0	89.73	179.57	12,505.7	-7,969.0	371.0	7,976.5	0.00	0.00	0.00
20,500.0	89.73	179.57	12,506.2	-8,069.0	371.7	8,076.5	0.00	0.00	0.00
20,600.0	89.73	179.57	12,506.7	-8,169.0	372.5	8,176.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	89.73	179.57	12,507.1	-8,269.0	373.2	8,276.4	0.00	0.00	0.00	
20,800.0	89.73	179.57	12,507.6	-8,369.0	374.0	8,376.4	0.00	0.00	0.00	
20,900.0	89.73	179.57	12,508.1	-8,469.0	374.7	8,476.4	0.00	0.00	0.00	
21,000.0	89.73	179.57	12,508.5	-8,569.0	375.5	8,576.3	0.00	0.00	0.00	
21,100.0	89.73	179.57	12,509.0	-8,669.0	376.2	8,676.3	0.00	0.00	0.00	
21,200.0	89.73	179.57	12,509.5	-8,769.0	377.0	8,776.3	0.00	0.00	0.00	
21,300.0	89.73	179.57	12,510.0	-8,869.0	377.7	8,876.3	0.00	0.00	0.00	
21,400.0	89.73	179.57	12,510.4	-8,969.0	378.5	8,976.2	0.00	0.00	0.00	
21,500.0	89.73	179.57	12,510.9	-9,069.0	379.2	9,076.2	0.00	0.00	0.00	
21,600.0	89.73	179.57	12,511.4	-9,169.0	380.0	9,176.2	0.00	0.00	0.00	
21,700.0	89.73	179.57	12,511.8	-9,269.0	380.7	9,276.2	0.00	0.00	0.00	
21,800.0	89.73	179.57	12,512.3	-9,369.0	381.5	9,376.1	0.00	0.00	0.00	
21,900.0	89.73	179.57	12,512.8	-9,469.0	382.2	9,476.1	0.00	0.00	0.00	
22,000.0	89.73	179.57	12,513.3	-9,569.0	383.0	9,576.1	0.00	0.00	0.00	
22,100.0	89.73	179.57	12,513.7	-9,669.0	383.7	9,676.1	0.00	0.00	0.00	
22,200.0	89.73	179.57	12,514.2	-9,769.0	384.5	9,776.0	0.00	0.00	0.00	
22,300.0	89.73	179.57	12,514.7	-9,868.9	385.2	9,876.0	0.00	0.00	0.00	
22,400.0	89.73	179.57	12,515.1	-9,968.9	386.0	9,976.0	0.00	0.00	0.00	
22,500.0	89.73	179.57	12,515.6	-10,068.9	386.7	10,076.0	0.00	0.00	0.00	
22,600.0	89.73	179.57	12,516.1	-10,168.9	387.5	10,175.9	0.00	0.00	0.00	
22,700.0	89.73	179.57	12,516.6	-10,268.9	388.2	10,275.9	0.00	0.00	0.00	
22,800.0	89.73	179.57	12,517.0	-10,368.9	389.0	10,375.9	0.00	0.00	0.00	
22,900.0	89.73	179.57	12,517.5	-10,468.9	389.7	10,475.9	0.00	0.00	0.00	
23,000.0	89.73	179.57	12,518.0	-10,568.9	390.4	10,575.8	0.00	0.00	0.00	
23,100.0	89.73	179.57	12,518.4	-10,668.9	391.2	10,675.8	0.00	0.00	0.00	
23,200.0	89.73	179.57	12,518.9	-10,768.9	391.9	10,775.8	0.00	0.00	0.00	
23,300.0	89.73	179.57	12,519.4	-10,868.9	392.7	10,875.8	0.00	0.00	0.00	
23,400.0	89.73	179.57	12,519.9	-10,968.9	393.4	10,975.7	0.00	0.00	0.00	
23,500.0	89.73	179.57	12,520.3	-11,068.9	394.2	11,075.7	0.00	0.00	0.00	
23,600.0	89.73	179.57	12,520.8	-11,168.9	394.9	11,175.7	0.00	0.00	0.00	
23,700.0	89.73	179.57	12,521.3	-11,268.9	395.7	11,275.7	0.00	0.00	0.00	
23,800.0	89.73	179.57	12,521.7	-11,368.9	396.4	11,375.6	0.00	0.00	0.00	
23,900.0	89.73	179.57	12,522.2	-11,468.9	397.2	11,475.6	0.00	0.00	0.00	
24,000.0	89.73	179.57	12,522.7	-11,568.9	397.9	11,575.6	0.00	0.00	0.00	
24,100.0	89.73	179.57	12,523.2	-11,668.9	398.7	11,675.6	0.00	0.00	0.00	
24,200.0	89.73	179.57	12,523.6	-11,768.9	399.4	11,775.5	0.00	0.00	0.00	
24,300.0	89.73	179.57	12,524.1	-11,868.9	400.2	11,875.5	0.00	0.00	0.00	
24,400.0	89.73	179.57	12,524.6	-11,968.9	400.9	11,975.5	0.00	0.00	0.00	
24,500.0	89.73	179.57	12,525.0	-12,068.9	401.7	12,075.5	0.00	0.00	0.00	
24,600.0	89.73	179.57	12,525.5	-12,168.9	402.4	12,175.4	0.00	0.00	0.00	
24,700.0	89.73	179.57	12,526.0	-12,268.9	403.2	12,275.4	0.00	0.00	0.00	
24,800.0	89.73	179.57	12,526.5	-12,368.8	403.9	12,375.4	0.00	0.00	0.00	
24,900.0	89.73	179.57	12,526.9	-12,468.8	404.7	12,475.4	0.00	0.00	0.00	
25,000.0	89.73	179.57	12,527.4	-12,568.8	405.4	12,575.3	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	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	89.73	179.57	12,527.9	-12,668.8	406.2	12,675.3	0.00	0.00	0.00
25,200.0	89.73	179.57	12,528.3	-12,768.8	406.9	12,775.3	0.00	0.00	0.00
25,300.0	89.73	179.57	12,528.8	-12,868.8	407.7	12,875.3	0.00	0.00	0.00
25,400.0	89.73	179.57	12,529.3	-12,968.8	408.4	12,975.2	0.00	0.00	0.00
25,500.0	89.73	179.57	12,529.8	-13,068.8	409.2	13,075.2	0.00	0.00	0.00
25,600.0	89.73	179.57	12,530.2	-13,168.8	409.9	13,175.2	0.00	0.00	0.00
25,700.0	89.73	179.57	12,530.7	-13,268.8	410.6	13,275.2	0.00	0.00	0.00
25,800.0	89.73	179.57	12,531.2	-13,368.8	411.4	13,375.1	0.00	0.00	0.00
25,900.0	89.73	179.57	12,531.6	-13,468.8	412.1	13,475.1	0.00	0.00	0.00
26,000.0	89.73	179.57	12,532.1	-13,568.8	412.9	13,575.1	0.00	0.00	0.00
26,100.0	89.73	179.57	12,532.6	-13,668.8	413.6	13,675.1	0.00	0.00	0.00
26,200.0	89.73	179.57	12,533.1	-13,768.8	414.4	13,775.0	0.00	0.00	0.00
26,300.0	89.73	179.57	12,533.5	-13,868.8	415.1	13,875.0	0.00	0.00	0.00
26,400.0	89.73	179.57	12,534.0	-13,968.8	415.9	13,975.0	0.00	0.00	0.00
26,500.0	89.73	179.57	12,534.5	-14,068.8	416.6	14,075.0	0.00	0.00	0.00
26,600.0	89.73	179.57	12,534.9	-14,168.8	417.4	14,174.9	0.00	0.00	0.00
26,629.0	89.73	179.57	12,535.1	-14,197.8	417.6	14,203.9	0.00	0.00	0.00
TD at 26629.0									

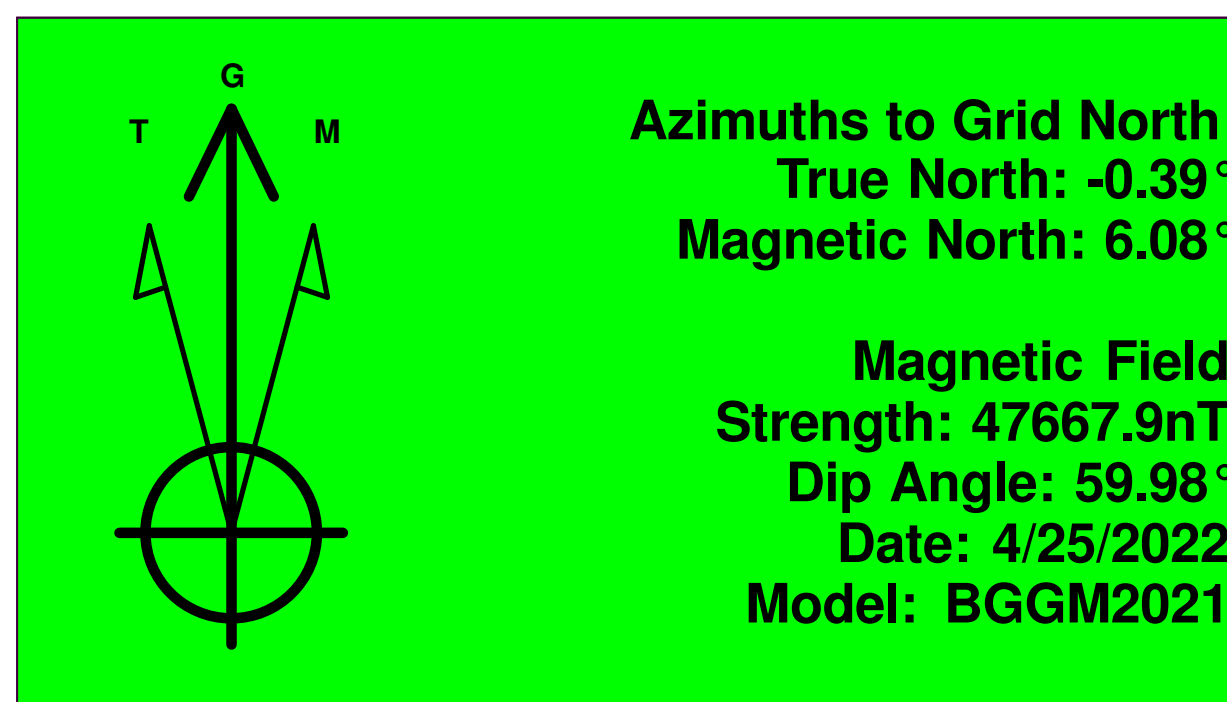
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (MEAT LOVER F - hit/miss target - Shape - Circle (radius 50.0)	0.00	0.00	12,470.0	170.9	308.7	477,846.30	724,806.30	32° 18' 41.825 N	103° 36' 20.434 W
- plan misses target center by 223.1usft at 12371.9usft MD (12308.8 TVD, 16.6 N, 311.2 E)									
LTP (MEAT LOVER F - plan misses target center by 0.2usft at 26579.0usft MD (12534.8 TVD, -14147.8 N, 417.2 E) - Point	0.00	0.00	12,535.0	-14,147.8	417.2	463,527.60	724,914.80	32° 16' 20.128 N	103° 36' 20.302 W
PBHL (MEAT LOVER - plan misses target center by 0.1usft at 26629.0usft MD (12535.1 TVD, -14197.8 N, 417.6 E) - Rectangle (sides W100.0 H14,420.0 D20.0)	-0.27	359.57	12,535.0	-14,197.8	417.6	463,477.60	724,915.20	32° 16' 19.633 N	103° 36' 20.301 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	6	9	Start 3803.1 hold at 2750.0 MD
6553	6538	180	291	Start Drop -1.00
7053	7038	191	310	Start 4859.3 hold at 7053.1 MD
11,912	11,897	191	310	Start Build 10.00
12,810	12,470	-379	314	Start 13819.3 hold at 12809.7 MD
26,629	12,535	-14,198	418	TD at 26629.0

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well MEAT LOVER FED COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3746.5usft (TBD)
Site:	MEAT LOVER FED COM PROJECT	MD Reference:	*KB=30' @ 3746.5usft (TBD)
Well:	MEAT LOVER FED COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	EDT 15 Central Prod

Checked By: _____	Approved By: _____	Date: _____
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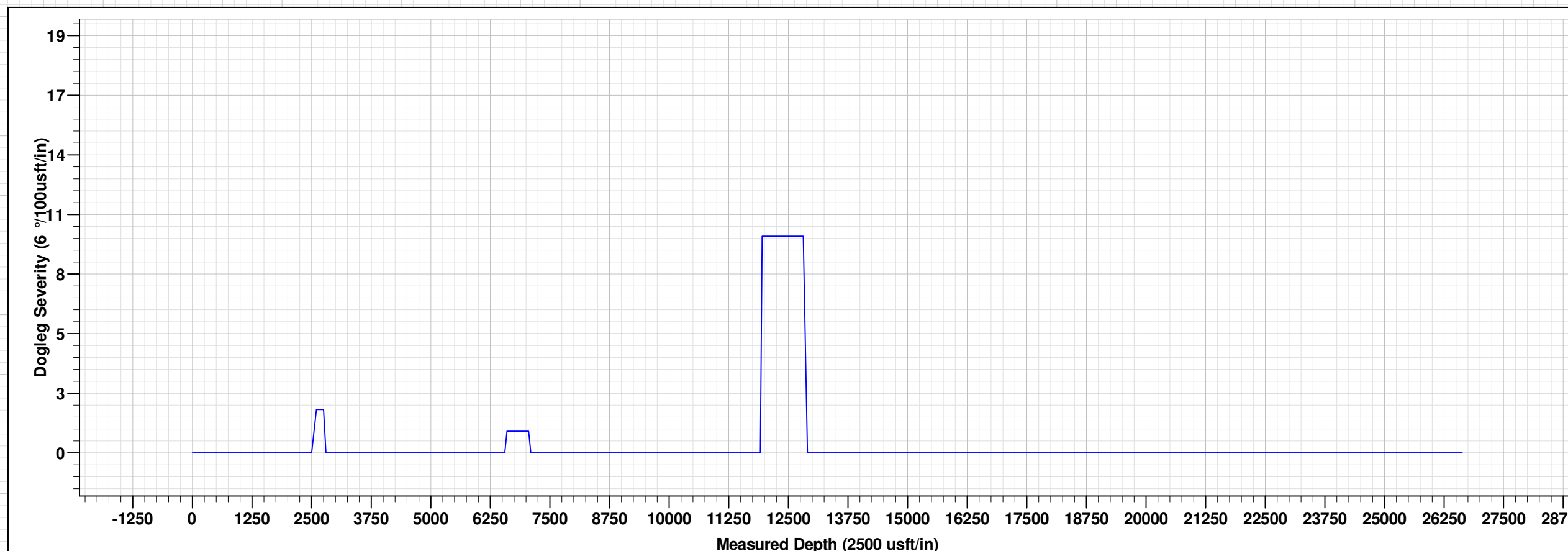
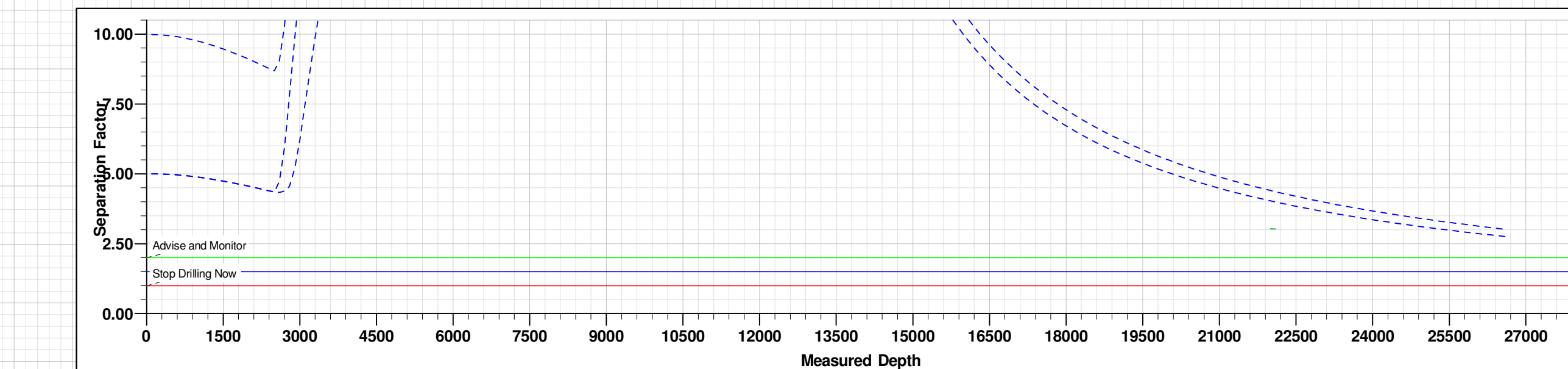
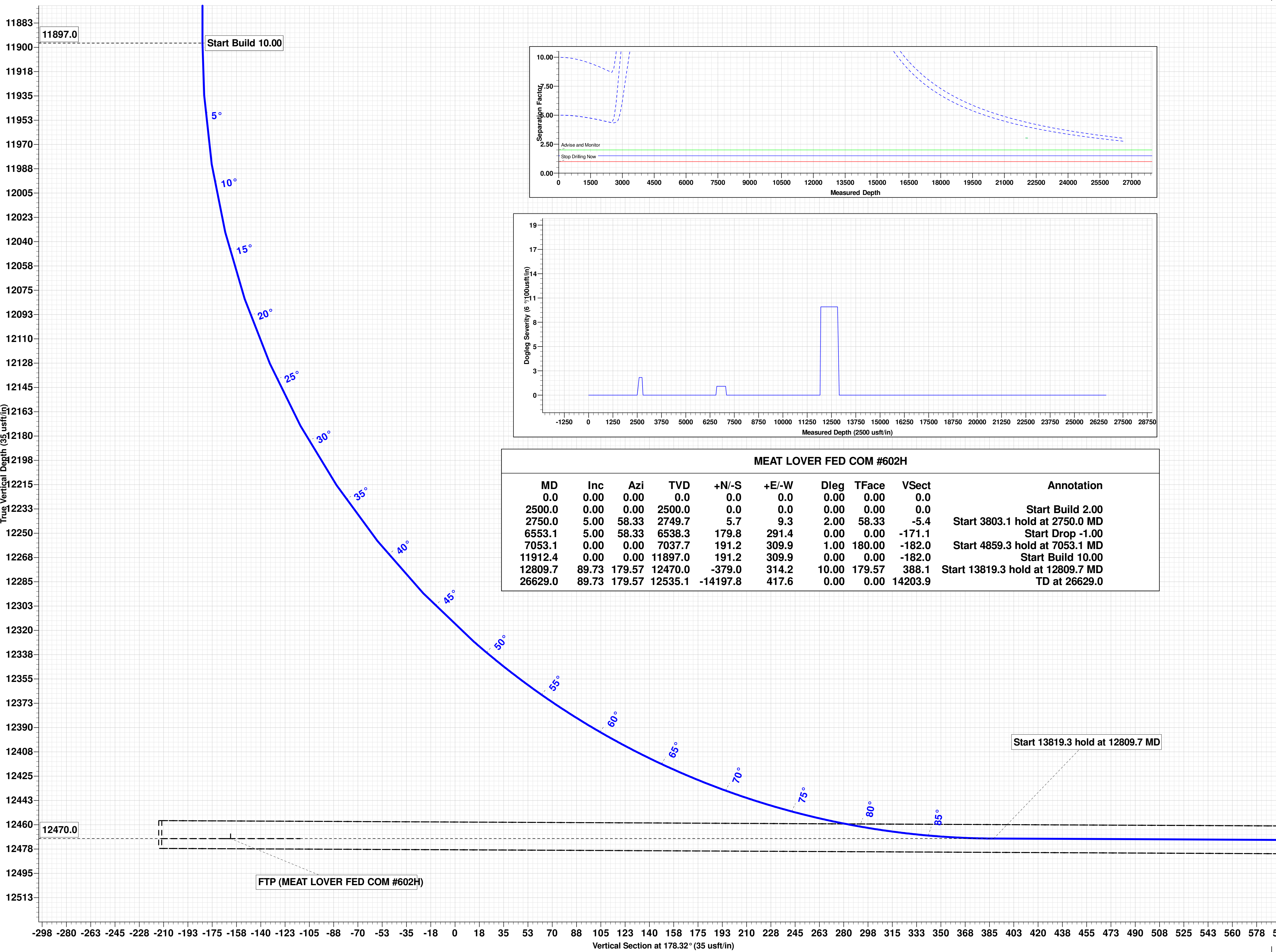
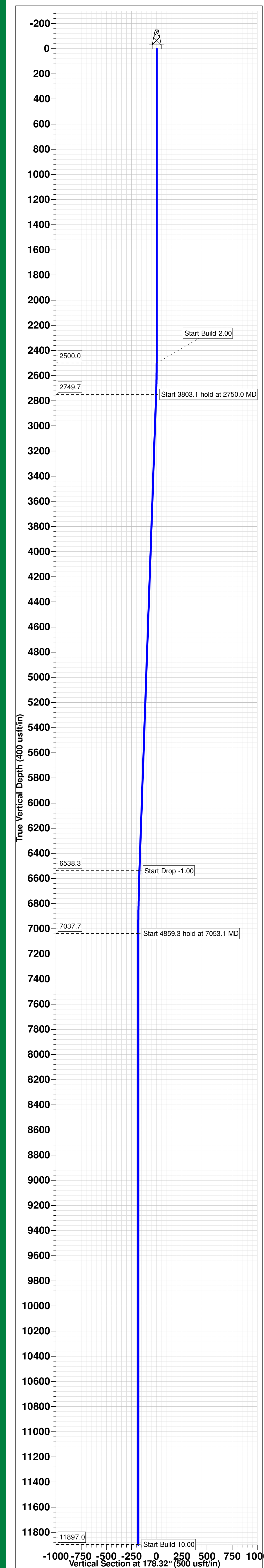
Project: BULLDOG PROSPECT (NM-E)
Site: MEAT LOVER FED COM PROJECT
Well: MEAT LOVER FED COM #602H
Wellbore: OWB
Design: PWP2
GL: 3716.5
*KB=30' @ 3746.5usft (TBD)

WELL DETAILS: MEAT LOVER FED COM #602H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	477675.40	724497.60	32° 18' 40.155 N	103° 36' 24.044 W

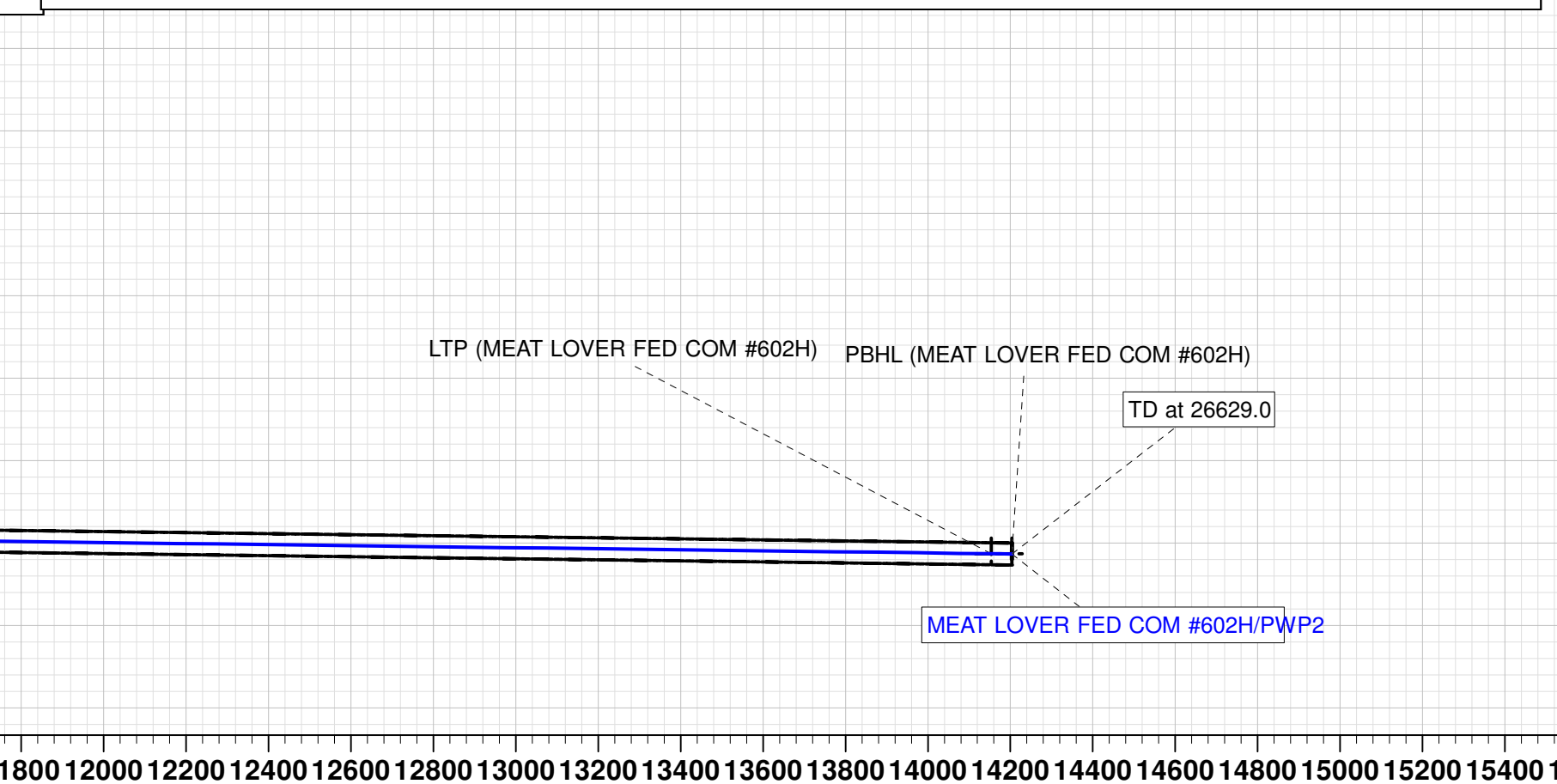
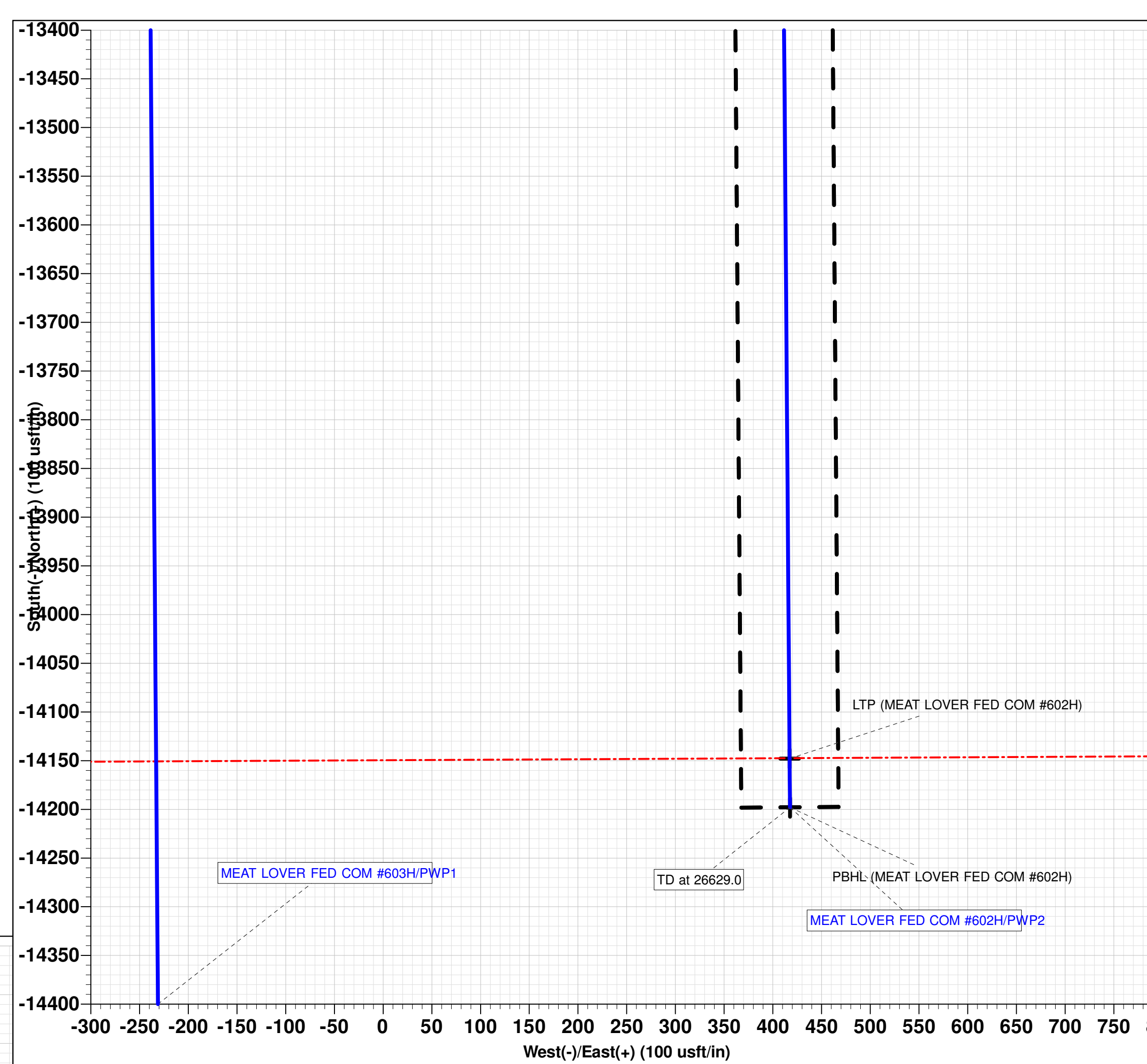
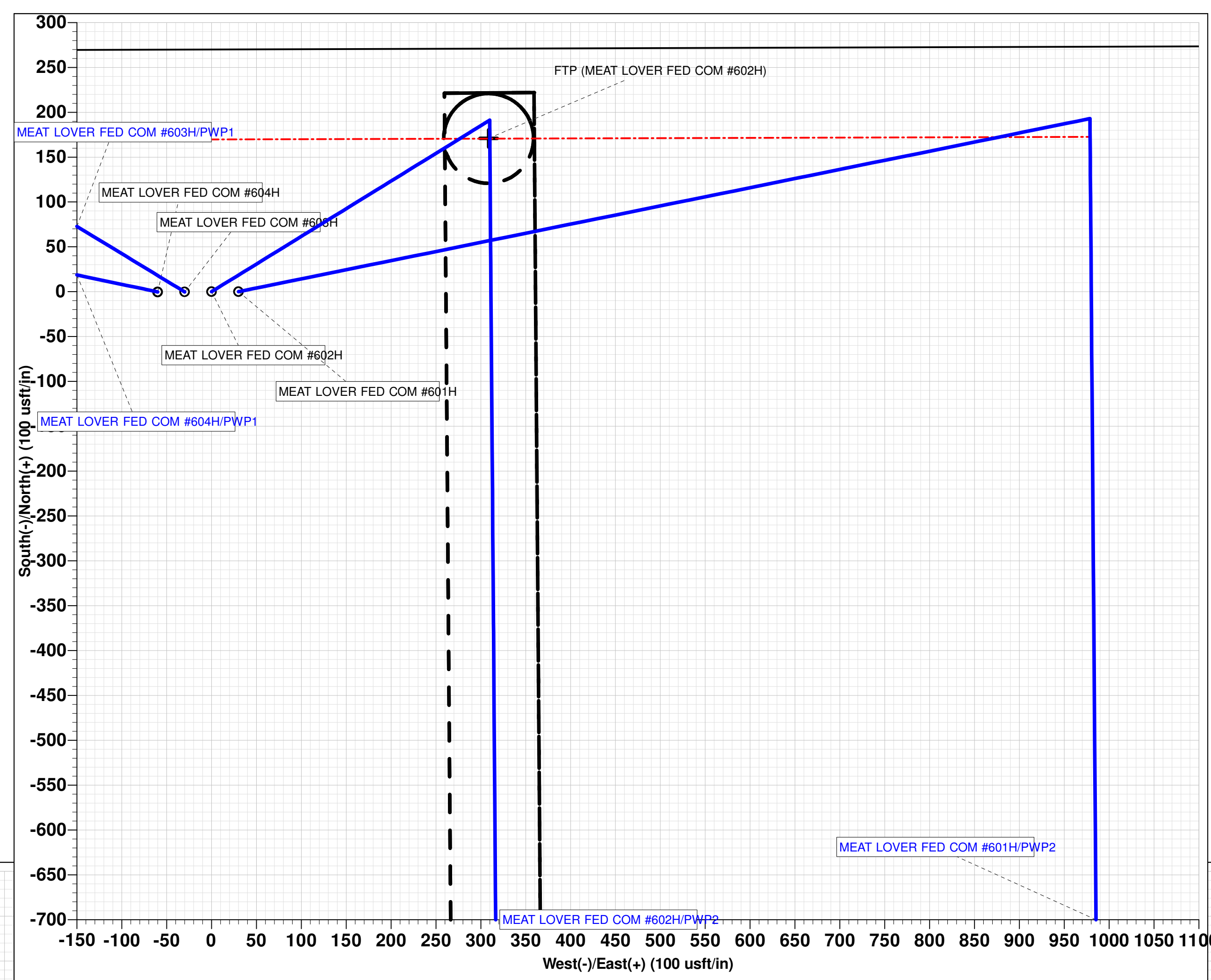
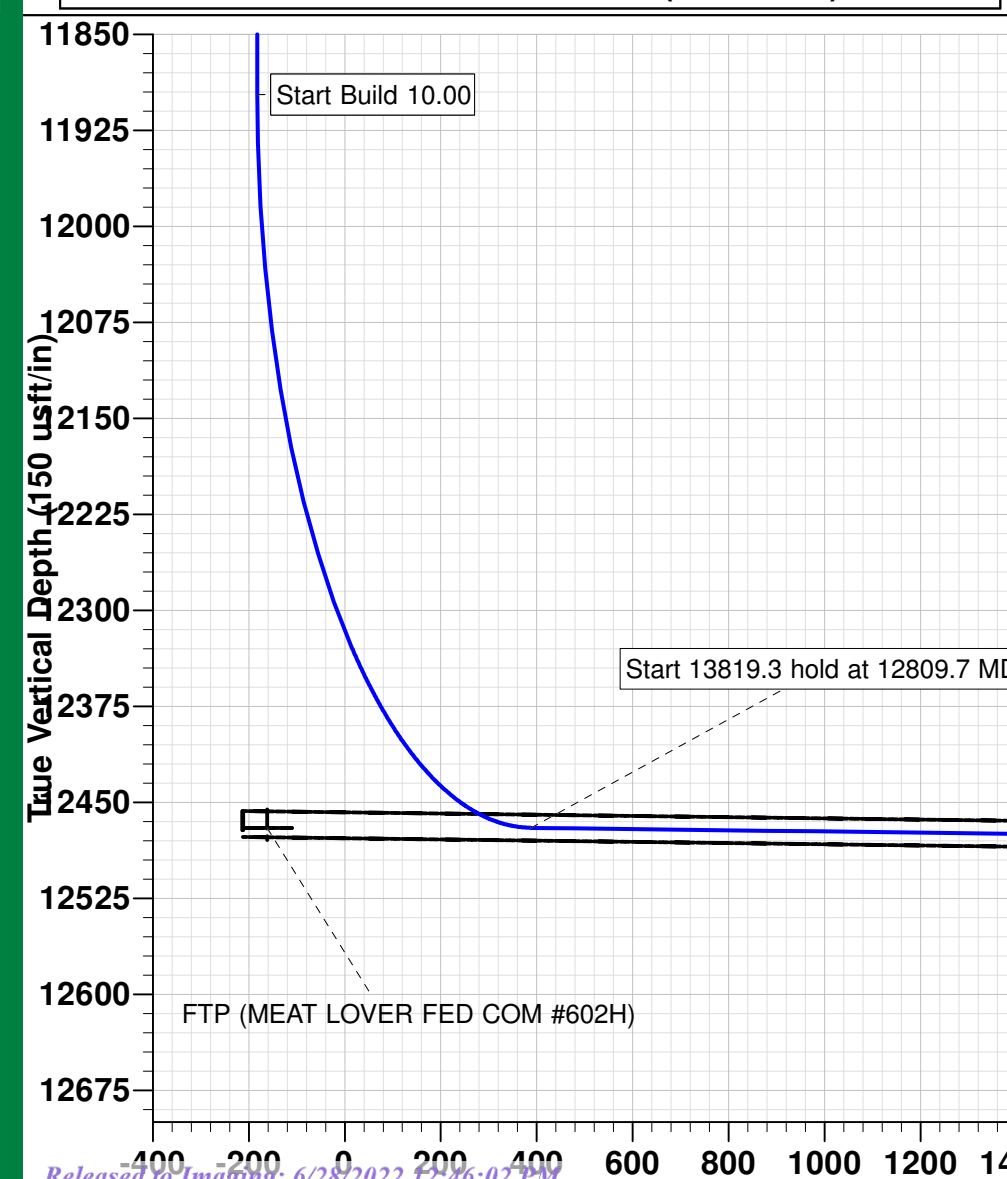
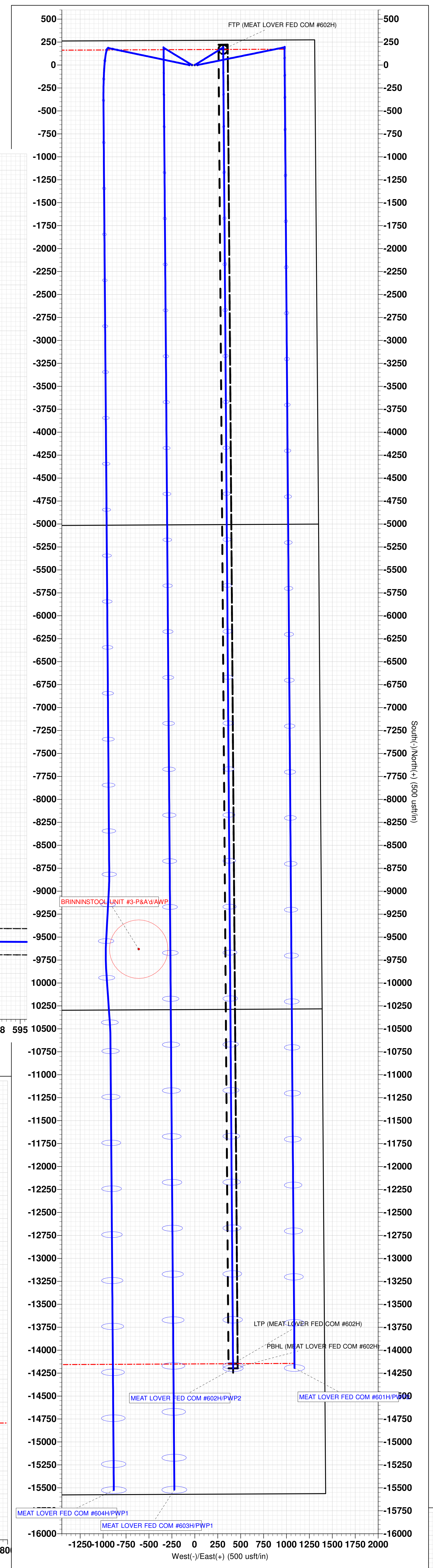
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (MEAT LOVER FED COM #602H)	12470.0	170.9	308.7	477846.30	724806.30	32° 18' 41.825 N	103° 36' 20.434 W
LTP (MEAT LOVER FED COM #602H)	12535.0	-14147.8	417.2	463527.60	724914.80	32° 16' 20.128 N	103° 36' 20.302 W
PBHL (MEAT LOVER FED COM #602H)	12535.0	-14197.8	417.6	463477.60	724915.20	32° 16' 19.633 N	103° 36' 20.301 W



MEAT LOVER FED COM #602H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	58.33	2749.7	5.7	9.3	2.00	58.33	-5.4	Start 3803.1 hold at 2750.0 MD
6553.1	5.00	58.33	6538.3	179.8	291.4	0.00	0.00	-171.1	Start Drop -1.00
7053.1	0.00	0.00	7037.7	191.2	309.9	1.00	180.00	-182.0	Start 4859.3 hold at 7053.1 MD
11912.4	0.00	0.00	11897.0	191.2	309.9	0.00	0.00	-182.0	Start Build 10.00
12809.7	89.73	179.57	12470.0	-379.0	314.2	10.00	179.57	368.1	Start 13819.3 hold at 12809.7 MD
26629.0	89.73	179.57	12535.1	-14197.8	417.6	0.00	0.00	14203.9	TD at 26629.0



COG PRODUCTION LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG PRODUCTION LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG PRODUCTION LLC

1-575-748-6940

EMERGENCY CALL LIST

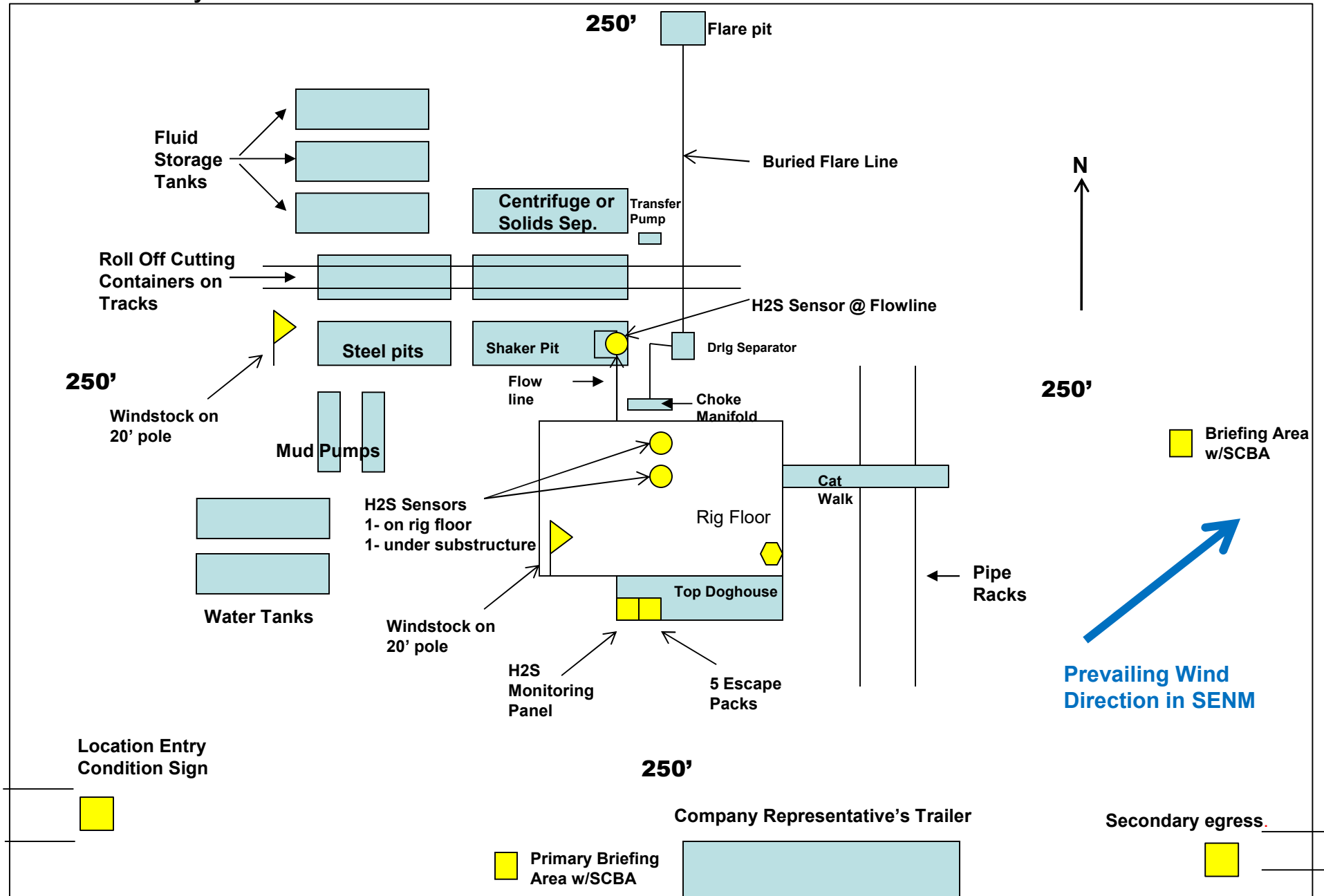
	<u>OFFICE</u>	<u>MOBILE</u>
COG PRODUCTION LLC OFFICE	575-748-6940	
PARKER SIMMONS	432-250-8045	432-250-8045

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

COG Production LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 500' X 500'
with cellar in center of pad



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 111230

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 111230
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/28/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/28/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/28/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	6/28/2022