

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.
2. Name of Operator		9. API Well No. 30-025-54626
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
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.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SESW / 480 FSL / 1485 FWL / TWSP: 20S / RANGE: 33E / SECTION: 15 / LAT: 32.567205 / LONG: -103.654861 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2320 FWL / TWSP: 20S / RANGE: 33E / SECTION: 22 / LAT: 32.565612 / LONG: -103.652149 (TVD: 10394 feet, MD: 10550 feet)

PPP: NESW / 2639 FSL / 2320 FWL / TWSP: 20S / RANGE: 33E / SECTION: 22 / LAT: 32.558634 / LONG: -103.652148 (TVD: 10575 feet, MD: 13091 feet)

PPP: SESW / 1319 FSL / 2320 FWL / TWSP: 20S / RANGE: 33E / SECTION: 22 / LAT: 32.555005 / LONG: -103.652147 (TVD: 10575 feet, MD: 14411 feet)

PPP: NENW / 1 FNL / 2320 FWL / TWSP: 20S / RANGE: 33E / SECTION: 34 / LAT: 32.536859 / LONG: -103.652142 (TVD: 10575 feet, MD: 21011 feet)

BHL: SESW / 50 FSL / 2320 FWL / TWSP: 20S / RANGE: 33E / SECTION: 34 / LAT: 32.522483 / LONG: -103.652138 (TVD: 10575 feet, MD: 26088 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025-54626	Pool Code 58960	Pool Name Teas; Bone Spring
Property Code 337204	Property Name DONKEY POTROAST FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3576.3'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	15	20-S	33-E		480 FSL	1485 FWL	32.567205°N	103.654861°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	34	20-S	33-E		50 FSL	2320 FWL	32.522483°N	103.652138°W	LEA

Dedicated Acres 1920	Infill or Defining Well Defining	Defining Well API Pending 502H	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	35	20-S	33-E		480 FSL	1485 FWL	32.567205°N	103.654861°W	LEA

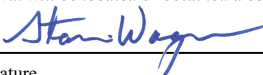
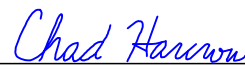
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	35	20-S	33-E		100 FNL	2320 FWL	32.565612°N	103.652149°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	26	20-S	33-E		100 FSL	2320 FWL	32.522620°N	103.652138°W	LEA

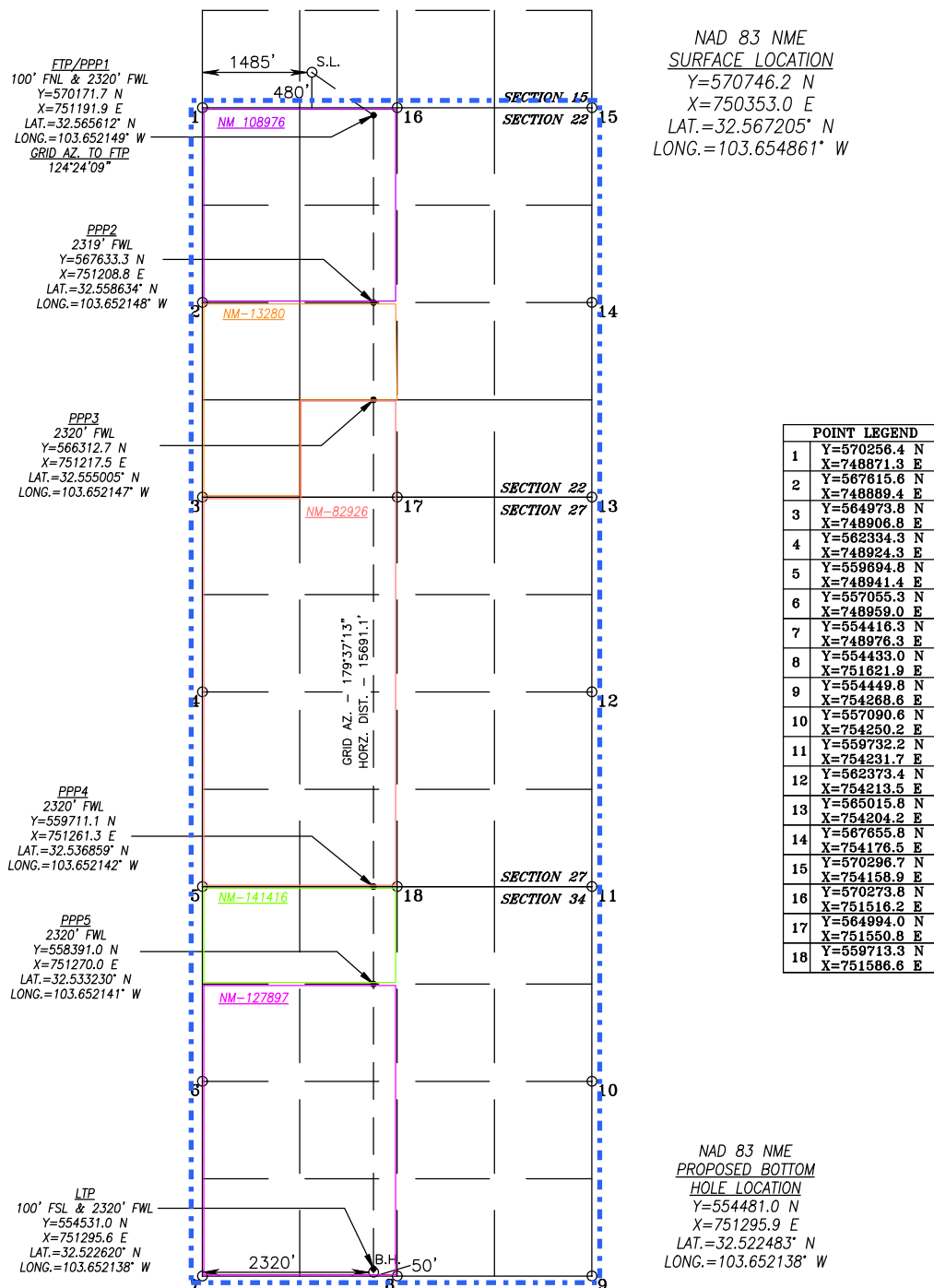
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  8/28/24		SURVEYOR CERTIFICATIONS <i>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.</i>  8/8/24	
Signature	Date	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner		Certificate Number 17777	Date of Survey JULY 31, 2024
Email Address		W.O.#24-661	DRAWN BY: WN
		PAGE 1 OF 2	

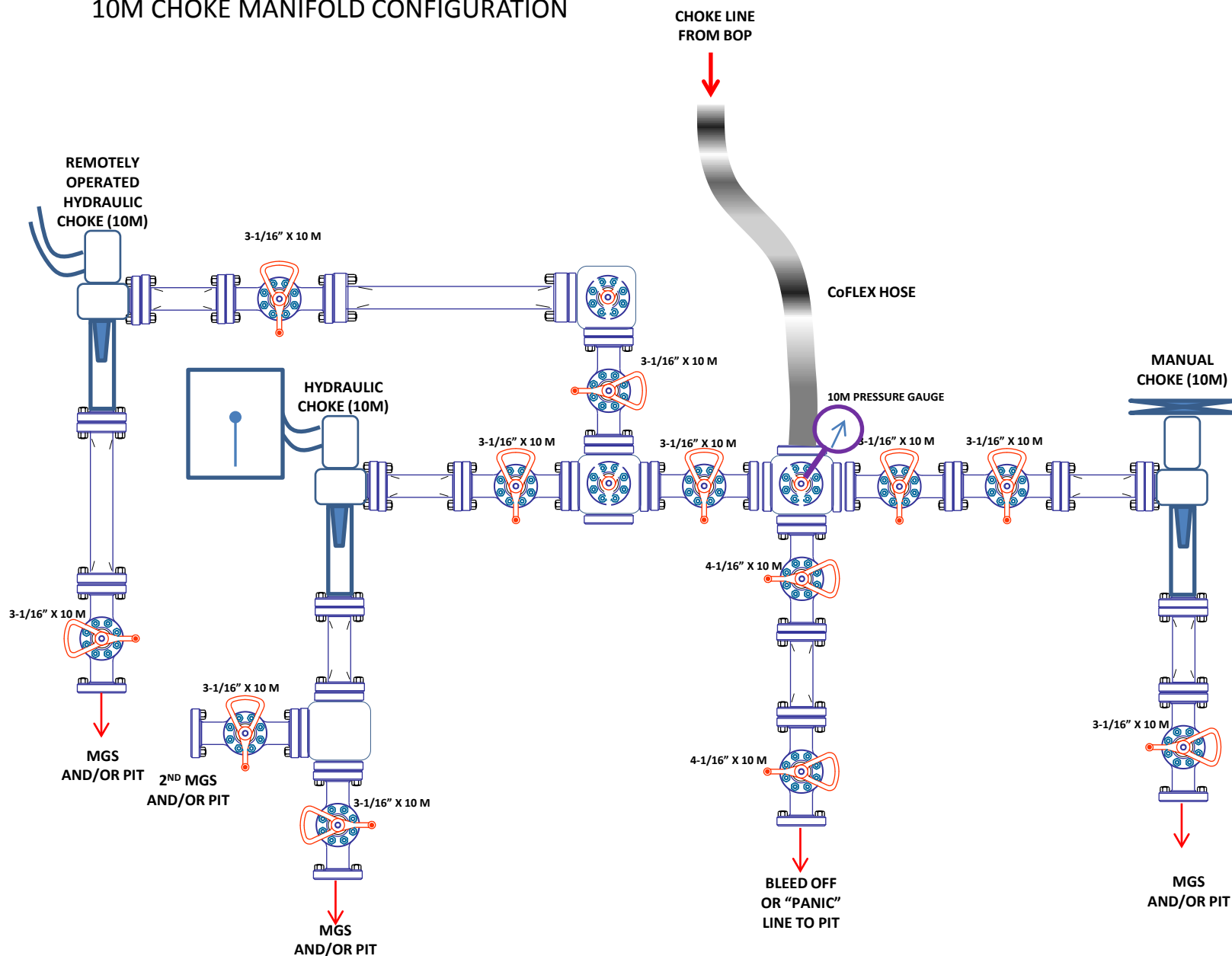
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

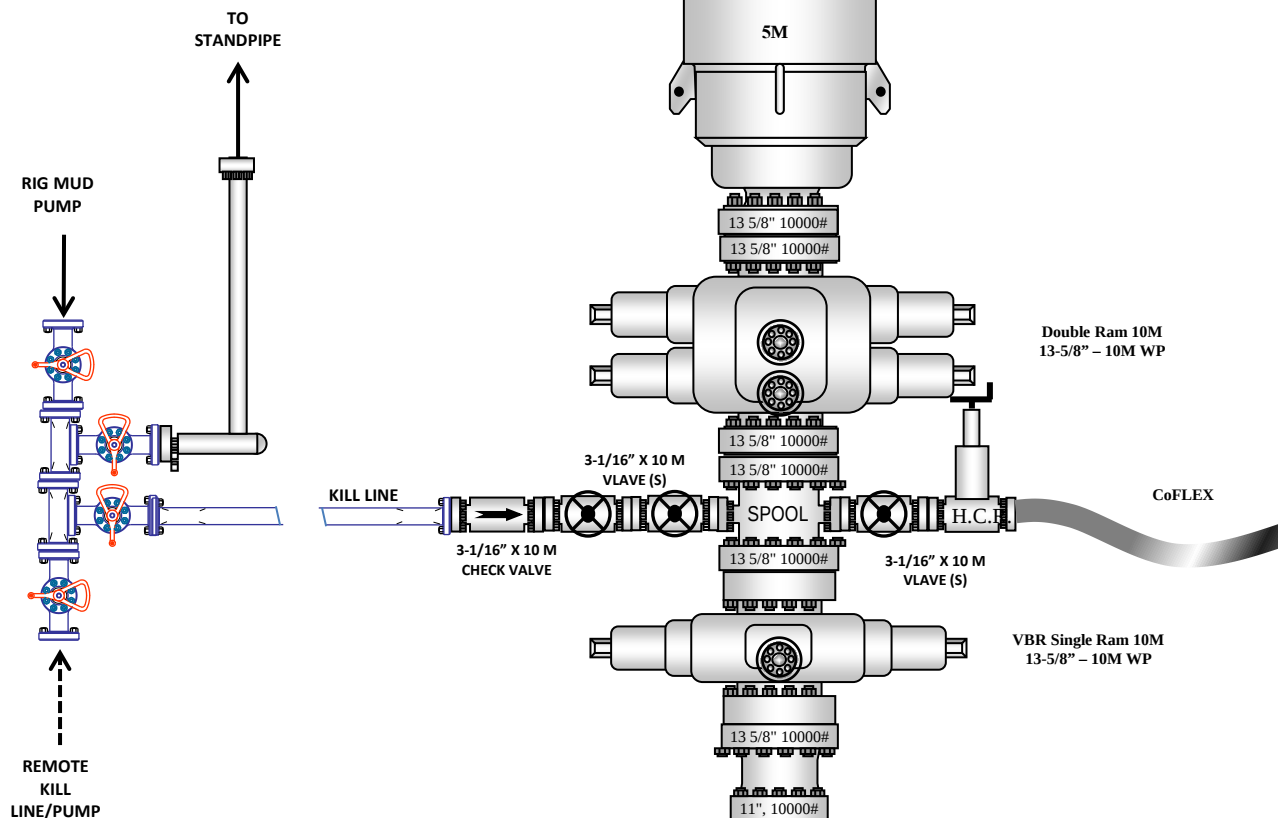
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



COG Operating, LLC - Donkey Potroast Fed Com 502H

1. Geologic Formations

TVD of target	10,600' EOL	Pilot hole depth	NA
MD at TD:	26,088'	Deepest expected fresh water:	325'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1393	Water	
Top of Salt	1781	Salt	
USGS Marker Bed 126	2788	Salt	
Base of Salt	3116	Salt Water	
Capitan Reef	3567	Salt Water	
Lamar	5314	Oil/Gas	
Brushy Canyon	6683	Oil/Gas	
Bone Spring	8301	Oil/Gas	
Avalon	8659	Oil/Gas	
1st Bone Spring Sand	9376	Oil/Gas	
1st Bone Spring Shale	9657	Oil/Gas	
2nd Bone Spring Sand	9916	Target Oil/Gas	
3rd Bone Spring Carb	10434	Not Penetrated	

Potash/Reef well archetype: 5-String Design Open 2nd Int x 3rd Int Annulus w/ ICP 3 below relief zone (Figure D). Sundry aims to comply with R-111-Q as passed on 5/10/2024.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
26.00"	0	1493	20.000"	106.5	J55	ER	1.13	1.73	10.60	10.60
17.50"	0	3316	13.375"	54.5	L80-IC	BTC	1.22	1.78	6.87	6.82
12.25"	0	5314	9.625"	40	L80-IC	BTC	2.10	1.53	4.31	4.46
8.750"	0	9770	7.625"	29.7	P110-ICY	W513	1.56	1.96	3.16	3.26
6.75"	0	9570	5.5"	23	P110-CY	BTC	2.16	2.28	3.31	3.29
6.75"	9570	26,088	5.5"	23	P110-CY	W441	1.95	2.28	2.99	2.90
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" wedge casing will be run back 200' above KOP to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

Intend to use new casing meeting API standards.

COG Operating, LLC - Donkey Potroast Fed Com 502H

	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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary?	Y
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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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?	

COG Operating, LLC - Donkey Potroast Fed Com 502H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf	859	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	565	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter 1	870	12.8	2.26	12.84	12	Lead: Class C + 5% Gel + 1% CaCl ₂
	291	14.8	1.2	5.35	10	50:50 Class H Premium
Inter 2	601	12.8	2.26	12.84	12	Lead: Class C + 5% Gel + 1% CaCl ₂
	262	14.8	1.2	5.35	10	50:50 Class H Premium
Inter 3	155	14.8	1.35	6.6	10	Tail: Class H - Single Slurry
Prod						
	1298	13.2	1.24	5.7	19	Tail: 50:50:2 Class H Blend Single Slurry

Intermediate #1 Salt string cemented to surface. Drill out to wait for 500PSI compressive strength.

Intermediate #2 Reef string will be cemented to surface. Drill out to wait for 500PSI compressive strength.

Intermediate #3 long string cemented Tail single slurry leaving Delaware Mountain group open as a relief zone. Section to be monitored during completions, and then Bradenhead cemented after completion is complete within 180 days to tie back. Drill out of intermediate to wait for 500psi compressive strength.

Production cement tied back 1000' into intermediate 3 string with minimal excess to ensure annulus remains open.

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%
1st Intermediate	0'	50%
2nd Intermediate	0'	50%
3rd Intermediate	7,683'	0%
Production	8,570'	10% OH in Lateral (KOP to EOL)

COG Operating, LLC - Donkey Potroast Fed Com 502H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
17-1/2"	20"	5M	Annular	x	2500psi
			Blind Ram		5000psi
			Pipe Ram		
			Double Ram		
			Other*		
12 1/4"	13-3/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8-3/4"	13-3/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-3/8"	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.
Y	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.

COG Operating, LLC - Donkey Potroast Fed Com 502H

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	13.375" Int 1 shoe	Saturated Brine	9 - 10	28-34	N/C
13.375" shoe	9.625" Int 2 shoe	Saturated Brine	9 - 10	28-34	N/C
9.625" Int 2 shoe	7-5/8" Int 3 shoe	Diesel/Brine	8.4 - 9.3	28-34	N/C
7-5/8" Int 3 shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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

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

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

Sidewall coring will be performed for pilot hole operations from Avalon to Strawn.

Additional logs planned		Interval
Y	Resistivity	Pilot Hole TD to ICP
Y	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	

COG Operating, LLC - Donkey Potroast Fed Com 502H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7445 psi at 10600' TVD
Abnormal Temperature	NO 165 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

COG OPERATING 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 OPERATING 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 OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

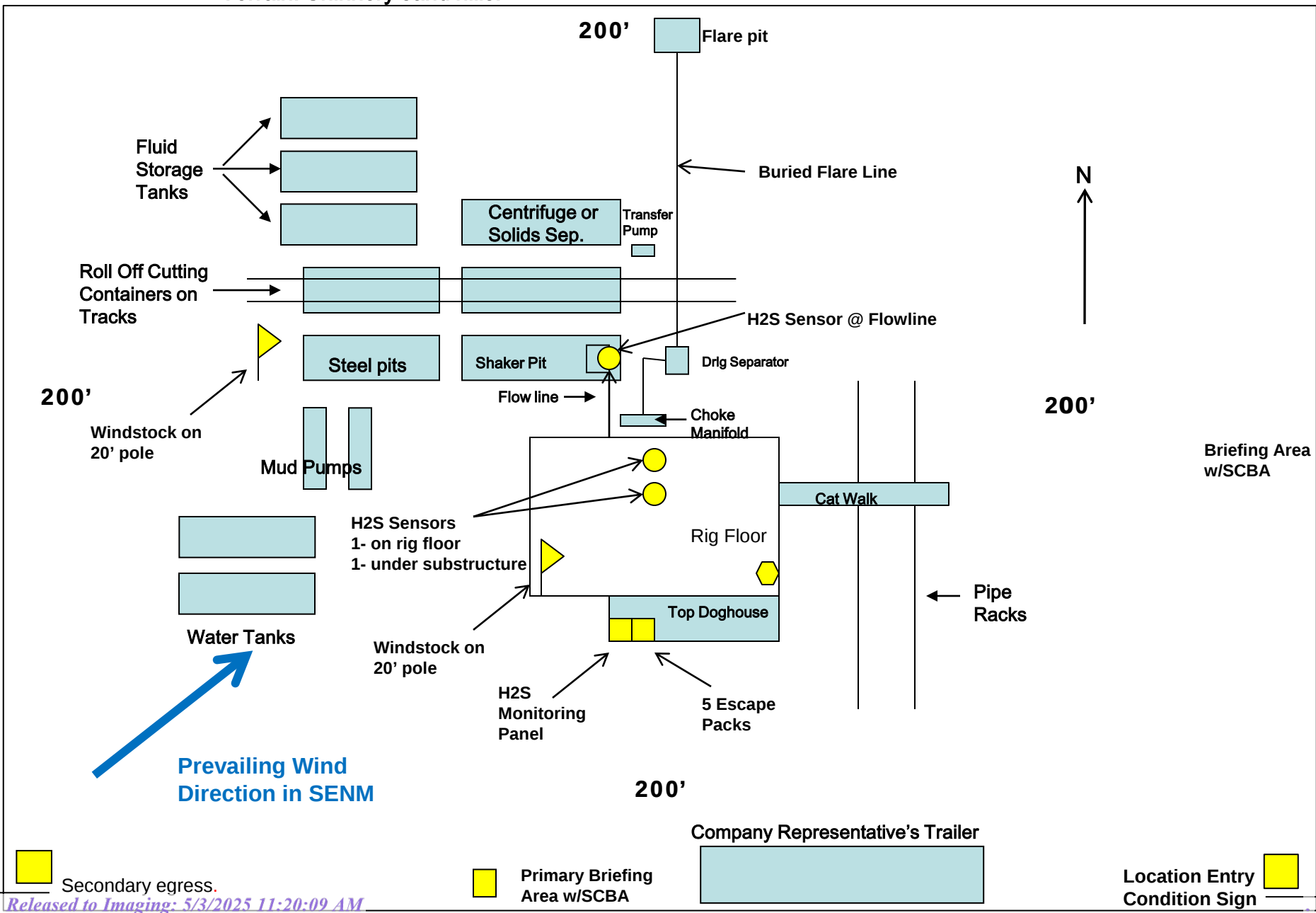
	<u>OFFICE</u>	<u>MOBILE</u>
Jenaya Rohlfing	432-683-7443	713-478-0376
Chad Gregory		432-238-5840

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 Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



DELAWARE BASIN EAST

ZEUS_NME

TARHEEL_DONKEY POTROAST PROJECT

**_DONKEY POTROAST FED COM 502H - Slot DONKEY
POTROAST #502H**

OWB

Plan: PWP0

Standard Planning Report

22 July, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ZEUS_NME		
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	TARHEEL_DONKEY POTROAST PROJECT		
Site Position:		Northing:	567,544.34 usft
From:	Map	Easting:	710,351.32 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 30.358 N
		Longitude:	103° 39' 2.181 W

Well	_DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.37 °		
		Latitude:	32° 34' 1.514 N
		Longitude:	103° 39' 15.706 W
		Ground Level:	3,630.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	9/14/2023	6.55	60.36	47,636.75943715

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	176.69

Plan Survey Tool Program	Date	7/22/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	26,088.1 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,188.3	13.77	126.67	2,181.7	-49.1	66.0	2.00	2.00	0.00	126.67	
5,539.5	13.77	126.67	5,436.7	-525.4	705.6	0.00	0.00	0.00	0.00	
6,916.1	0.00	0.00	6,800.0	-623.7	837.5	1.00	-1.00	0.00	180.00	
10,118.1	0.00	0.00	10,002.0	-623.7	837.5	0.00	0.00	0.00	0.00	
11,018.1	90.00	179.62	10,575.0	-1,196.6	841.3	10.00	10.00	19.96	179.62	
26,088.1	90.00	179.62	10,575.0	-16,266.3	941.2	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	2.00	126.67	1,600.0	-1.0	1.4	1.1	2.00	2.00	0.00	
1,700.0	4.00	126.67	1,699.8	-4.2	5.6	4.5	2.00	2.00	0.00	
1,800.0	6.00	126.67	1,799.5	-9.4	12.6	10.1	2.00	2.00	0.00	
1,900.0	8.00	126.67	1,898.7	-16.7	22.4	17.9	2.00	2.00	0.00	
2,000.0	10.00	126.67	1,997.5	-26.0	34.9	28.0	2.00	2.00	0.00	
2,100.0	12.00	126.67	2,095.6	-37.4	50.2	40.2	2.00	2.00	0.00	
2,188.3	13.77	126.67	2,181.7	-49.1	66.0	52.9	2.00	2.00	0.00	
2,200.0	13.77	126.67	2,193.1	-50.8	68.2	54.7	0.00	0.00	0.00	
2,300.0	13.77	126.67	2,290.2	-65.0	87.3	70.0	0.00	0.00	0.00	
2,400.0	13.77	126.67	2,387.3	-79.2	106.4	85.2	0.00	0.00	0.00	
2,500.0	13.77	126.67	2,484.4	-93.4	125.5	100.5	0.00	0.00	0.00	
2,600.0	13.77	126.67	2,581.6	-107.7	144.6	115.8	0.00	0.00	0.00	
2,700.0	13.77	126.67	2,678.7	-121.9	163.7	131.1	0.00	0.00	0.00	
2,800.0	13.77	126.67	2,775.8	-136.1	182.7	146.4	0.00	0.00	0.00	
2,900.0	13.77	126.67	2,873.0	-150.3	201.8	161.7	0.00	0.00	0.00	
3,000.0	13.77	126.67	2,970.1	-164.5	220.9	177.0	0.00	0.00	0.00	
3,100.0	13.77	126.67	3,067.2	-178.7	240.0	192.3	0.00	0.00	0.00	
3,200.0	13.77	126.67	3,164.3	-192.9	259.1	207.6	0.00	0.00	0.00	
3,300.0	13.77	126.67	3,261.5	-207.1	278.2	222.9	0.00	0.00	0.00	
3,400.0	13.77	126.67	3,358.6	-221.4	297.2	238.2	0.00	0.00	0.00	
3,500.0	13.77	126.67	3,455.7	-235.6	316.3	253.4	0.00	0.00	0.00	
3,600.0	13.77	126.67	3,552.9	-249.8	335.4	268.7	0.00	0.00	0.00	
3,700.0	13.77	126.67	3,650.0	-264.0	354.5	284.0	0.00	0.00	0.00	
3,800.0	13.77	126.67	3,747.1	-278.2	373.6	299.3	0.00	0.00	0.00	
3,900.0	13.77	126.67	3,844.2	-292.4	392.7	314.6	0.00	0.00	0.00	
4,000.0	13.77	126.67	3,941.4	-306.6	411.8	329.9	0.00	0.00	0.00	
4,100.0	13.77	126.67	4,038.5	-320.8	430.8	345.2	0.00	0.00	0.00	
4,200.0	13.77	126.67	4,135.6	-335.0	449.9	360.5	0.00	0.00	0.00	
4,300.0	13.77	126.67	4,232.7	-349.3	469.0	375.8	0.00	0.00	0.00	
4,400.0	13.77	126.67	4,329.9	-363.5	488.1	391.1	0.00	0.00	0.00	
4,500.0	13.77	126.67	4,427.0	-377.7	507.2	406.3	0.00	0.00	0.00	
4,600.0	13.77	126.67	4,524.1	-391.9	526.3	421.6	0.00	0.00	0.00	
4,700.0	13.77	126.67	4,621.3	-406.1	545.3	436.9	0.00	0.00	0.00	
4,800.0	13.77	126.67	4,718.4	-420.3	564.4	452.2	0.00	0.00	0.00	
4,900.0	13.77	126.67	4,815.5	-434.5	583.5	467.5	0.00	0.00	0.00	
5,000.0	13.77	126.67	4,912.6	-448.7	602.6	482.8	0.00	0.00	0.00	
5,100.0	13.77	126.67	5,009.8	-462.9	621.7	498.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
5,200.0	13.77	126.67	5,106.9	-477.2	640.8	513.4	0.00	0.00	0.00
5,300.0	13.77	126.67	5,204.0	-491.4	659.9	528.7	0.00	0.00	0.00
5,400.0	13.77	126.67	5,301.2	-505.6	678.9	544.0	0.00	0.00	0.00
5,500.0	13.77	126.67	5,398.3	-519.8	698.0	559.2	0.00	0.00	0.00
5,539.5	13.77	126.67	5,436.7	-525.4	705.6	565.3	0.00	0.00	0.00
5,600.0	13.16	126.67	5,495.5	-533.8	716.9	574.3	1.00	-1.00	0.00
5,700.0	12.16	126.67	5,593.0	-546.9	734.4	588.4	1.00	-1.00	0.00
5,800.0	11.16	126.67	5,691.0	-559.0	750.6	601.4	1.00	-1.00	0.00
5,900.0	10.16	126.67	5,789.3	-570.0	765.5	613.3	1.00	-1.00	0.00
6,000.0	9.16	126.67	5,887.8	-580.1	778.9	624.1	1.00	-1.00	0.00
6,100.0	8.16	126.67	5,986.7	-589.0	791.0	633.8	1.00	-1.00	0.00
6,200.0	7.16	126.67	6,085.8	-597.0	801.7	642.3	1.00	-1.00	0.00
6,300.0	6.16	126.67	6,185.1	-603.9	811.0	649.8	1.00	-1.00	0.00
6,400.0	5.16	126.67	6,284.6	-609.8	818.9	656.1	1.00	-1.00	0.00
6,500.0	4.16	126.67	6,384.3	-614.7	825.4	661.3	1.00	-1.00	0.00
6,600.0	3.16	126.67	6,484.1	-618.5	830.6	665.4	1.00	-1.00	0.00
6,700.0	2.16	126.67	6,584.0	-621.3	834.3	668.4	1.00	-1.00	0.00
6,800.0	1.16	126.67	6,683.9	-623.0	836.6	670.3	1.00	-1.00	0.00
6,900.0	0.16	126.67	6,783.9	-623.7	837.5	671.0	1.00	-1.00	0.00
6,916.1	0.00	0.00	6,800.0	-623.7	837.5	671.0	1.00	-1.00	0.00
7,000.0	0.00	0.00	6,883.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,983.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,083.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,183.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,283.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,383.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,483.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,583.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,683.9	-623.7	837.5	671.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,783.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,883.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,983.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,083.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,183.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,283.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,383.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,483.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,583.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,683.9	-623.7	837.5	671.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,783.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,883.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,100.0	0.00	0.00	8,983.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,083.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,183.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,283.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,383.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,483.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,583.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,683.9	-623.7	837.5	671.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,783.9	-623.7	837.5	671.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,883.9	-623.7	837.5	671.0	0.00	0.00	0.00
10,100.0	0.00	0.00	9,983.9	-623.7	837.5	671.0	0.00	0.00	0.00
10,118.1	0.00	0.00	10,002.0	-623.7	837.5	671.0	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
10,150.0	3.19	179.62	10,033.9	-624.6	837.6	671.9	10.00	10.00	0.00	
10,200.0	8.19	179.62	10,083.7	-629.5	837.6	676.9	10.00	10.00	0.00	
10,250.0	13.19	179.62	10,132.8	-638.8	837.6	686.1	10.00	10.00	0.00	
10,300.0	18.19	179.62	10,180.9	-652.3	837.7	699.6	10.00	10.00	0.00	
10,350.0	23.19	179.62	10,227.7	-670.0	837.9	717.3	10.00	10.00	0.00	
10,400.0	28.19	179.62	10,272.7	-691.7	838.0	738.9	10.00	10.00	0.00	
10,450.0	33.19	179.62	10,315.7	-717.2	838.2	764.4	10.00	10.00	0.00	
10,500.0	38.19	179.62	10,356.3	-746.4	838.4	793.5	10.00	10.00	0.00	
10,550.0	43.19	179.62	10,394.2	-778.9	838.6	826.1	10.00	10.00	0.00	
10,600.0	48.19	179.62	10,429.1	-814.7	838.8	861.8	10.00	10.00	0.00	
10,650.0	53.19	179.62	10,460.7	-853.4	839.1	900.4	10.00	10.00	0.00	
10,700.0	58.19	179.62	10,488.9	-894.7	839.3	941.7	10.00	10.00	0.00	
10,750.0	63.19	179.62	10,513.4	-938.3	839.6	985.2	10.00	10.00	0.00	
10,800.0	68.19	179.62	10,534.0	-983.8	839.9	1,030.7	10.00	10.00	0.00	
10,850.0	73.19	179.62	10,550.5	-1,031.0	840.2	1,077.8	10.00	10.00	0.00	
10,900.0	78.19	179.62	10,562.8	-1,079.4	840.6	1,126.2	10.00	10.00	0.00	
10,950.0	83.19	179.62	10,570.9	-1,128.7	840.9	1,175.4	10.00	10.00	0.00	
11,000.0	88.19	179.62	10,574.7	-1,178.6	841.2	1,225.2	10.00	10.00	0.00	
11,018.1	90.00	179.62	10,575.0	-1,196.6	841.3	1,243.2	10.00	10.00	0.00	
11,100.0	90.00	179.62	10,575.0	-1,278.6	841.9	1,325.1	0.00	0.00	0.00	
11,200.0	90.00	179.62	10,575.0	-1,378.6	842.5	1,424.9	0.00	0.00	0.00	
11,300.0	90.00	179.62	10,575.0	-1,478.6	843.2	1,524.8	0.00	0.00	0.00	
11,400.0	90.00	179.62	10,575.0	-1,578.6	843.9	1,624.7	0.00	0.00	0.00	
11,500.0	90.00	179.62	10,575.0	-1,678.6	844.5	1,724.6	0.00	0.00	0.00	
11,600.0	90.00	179.62	10,575.0	-1,778.6	845.2	1,824.4	0.00	0.00	0.00	
11,700.0	90.00	179.62	10,575.0	-1,878.6	845.9	1,924.3	0.00	0.00	0.00	
11,800.0	90.00	179.62	10,575.0	-1,978.6	846.5	2,024.2	0.00	0.00	0.00	
11,900.0	90.00	179.62	10,575.0	-2,078.6	847.2	2,124.0	0.00	0.00	0.00	
12,000.0	90.00	179.62	10,575.0	-2,178.6	847.8	2,223.9	0.00	0.00	0.00	
12,100.0	90.00	179.62	10,575.0	-2,278.6	848.5	2,323.8	0.00	0.00	0.00	
12,200.0	90.00	179.62	10,575.0	-2,378.6	849.2	2,423.6	0.00	0.00	0.00	
12,300.0	90.00	179.62	10,575.0	-2,478.6	849.8	2,523.5	0.00	0.00	0.00	
12,400.0	90.00	179.62	10,575.0	-2,578.6	850.5	2,623.4	0.00	0.00	0.00	
12,500.0	90.00	179.62	10,575.0	-2,678.6	851.2	2,723.2	0.00	0.00	0.00	
12,600.0	90.00	179.62	10,575.0	-2,778.5	851.8	2,823.1	0.00	0.00	0.00	
12,700.0	90.00	179.62	10,575.0	-2,878.5	852.5	2,923.0	0.00	0.00	0.00	
12,800.0	90.00	179.62	10,575.0	-2,978.5	853.1	3,022.9	0.00	0.00	0.00	
12,900.0	90.00	179.62	10,575.0	-3,078.5	853.8	3,122.7	0.00	0.00	0.00	
13,000.0	90.00	179.62	10,575.0	-3,178.5	854.5	3,222.6	0.00	0.00	0.00	
13,100.0	90.00	179.62	10,575.0	-3,278.5	855.1	3,322.5	0.00	0.00	0.00	
13,200.0	90.00	179.62	10,575.0	-3,378.5	855.8	3,422.3	0.00	0.00	0.00	
13,300.0	90.00	179.62	10,575.0	-3,478.5	856.5	3,522.2	0.00	0.00	0.00	
13,400.0	90.00	179.62	10,575.0	-3,578.5	857.1	3,622.1	0.00	0.00	0.00	
13,500.0	90.00	179.62	10,575.0	-3,678.5	857.8	3,721.9	0.00	0.00	0.00	
13,600.0	90.00	179.62	10,575.0	-3,778.5	858.4	3,821.8	0.00	0.00	0.00	
13,700.0	90.00	179.62	10,575.0	-3,878.5	859.1	3,921.7	0.00	0.00	0.00	
13,800.0	90.00	179.62	10,575.0	-3,978.5	859.8	4,021.5	0.00	0.00	0.00	
13,900.0	90.00	179.62	10,575.0	-4,078.5	860.4	4,121.4	0.00	0.00	0.00	
14,000.0	90.00	179.62	10,575.0	-4,178.5	861.1	4,221.3	0.00	0.00	0.00	
14,100.0	90.00	179.62	10,575.0	-4,278.5	861.8	4,321.2	0.00	0.00	0.00	
14,200.0	90.00	179.62	10,575.0	-4,378.5	862.4	4,421.0	0.00	0.00	0.00	
14,300.0	90.00	179.62	10,575.0	-4,478.5	863.1	4,520.9	0.00	0.00	0.00	
14,400.0	90.00	179.62	10,575.0	-4,578.5	863.7	4,620.8	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
14,500.0	90.00	179.62	10,575.0	-4,678.5	864.4	4,720.6	0.00	0.00	0.00
14,600.0	90.00	179.62	10,575.0	-4,778.5	865.1	4,820.5	0.00	0.00	0.00
14,700.0	90.00	179.62	10,575.0	-4,878.5	865.7	4,920.4	0.00	0.00	0.00
14,800.0	90.00	179.62	10,575.0	-4,978.5	866.4	5,020.2	0.00	0.00	0.00
14,900.0	90.00	179.62	10,575.0	-5,078.5	867.1	5,120.1	0.00	0.00	0.00
15,000.0	90.00	179.62	10,575.0	-5,178.5	867.7	5,220.0	0.00	0.00	0.00
15,100.0	90.00	179.62	10,575.0	-5,278.5	868.4	5,319.8	0.00	0.00	0.00
15,200.0	90.00	179.62	10,575.0	-5,378.5	869.0	5,419.7	0.00	0.00	0.00
15,300.0	90.00	179.62	10,575.0	-5,478.5	869.7	5,519.6	0.00	0.00	0.00
15,400.0	90.00	179.62	10,575.0	-5,578.5	870.4	5,619.4	0.00	0.00	0.00
15,500.0	90.00	179.62	10,575.0	-5,678.5	871.0	5,719.3	0.00	0.00	0.00
15,600.0	90.00	179.62	10,575.0	-5,778.5	871.7	5,819.2	0.00	0.00	0.00
15,700.0	90.00	179.62	10,575.0	-5,878.5	872.4	5,919.1	0.00	0.00	0.00
15,800.0	90.00	179.62	10,575.0	-5,978.5	873.0	6,018.9	0.00	0.00	0.00
15,900.0	90.00	179.62	10,575.0	-6,078.5	873.7	6,118.8	0.00	0.00	0.00
16,000.0	90.00	179.62	10,575.0	-6,178.5	874.3	6,218.7	0.00	0.00	0.00
16,100.0	90.00	179.62	10,575.0	-6,278.5	875.0	6,318.5	0.00	0.00	0.00
16,200.0	90.00	179.62	10,575.0	-6,378.5	875.7	6,418.4	0.00	0.00	0.00
16,300.0	90.00	179.62	10,575.0	-6,478.5	876.3	6,518.3	0.00	0.00	0.00
16,400.0	90.00	179.62	10,575.0	-6,578.5	877.0	6,618.1	0.00	0.00	0.00
16,500.0	90.00	179.62	10,575.0	-6,678.5	877.7	6,718.0	0.00	0.00	0.00
16,600.0	90.00	179.62	10,575.0	-6,778.5	878.3	6,817.9	0.00	0.00	0.00
16,700.0	90.00	179.62	10,575.0	-6,878.5	879.0	6,917.7	0.00	0.00	0.00
16,800.0	90.00	179.62	10,575.0	-6,978.5	879.6	7,017.6	0.00	0.00	0.00
16,900.0	90.00	179.62	10,575.0	-7,078.5	880.3	7,117.5	0.00	0.00	0.00
17,000.0	90.00	179.62	10,575.0	-7,178.5	881.0	7,217.4	0.00	0.00	0.00
17,100.0	90.00	179.62	10,575.0	-7,278.5	881.6	7,317.2	0.00	0.00	0.00
17,200.0	90.00	179.62	10,575.0	-7,378.4	882.3	7,417.1	0.00	0.00	0.00
17,300.0	90.00	179.62	10,575.0	-7,478.4	883.0	7,517.0	0.00	0.00	0.00
17,400.0	90.00	179.62	10,575.0	-7,578.4	883.6	7,616.8	0.00	0.00	0.00
17,500.0	90.00	179.62	10,575.0	-7,678.4	884.3	7,716.7	0.00	0.00	0.00
17,600.0	90.00	179.62	10,575.0	-7,778.4	884.9	7,816.6	0.00	0.00	0.00
17,700.0	90.00	179.62	10,575.0	-7,878.4	885.6	7,916.4	0.00	0.00	0.00
17,800.0	90.00	179.62	10,575.0	-7,978.4	886.3	8,016.3	0.00	0.00	0.00
17,900.0	90.00	179.62	10,575.0	-8,078.4	886.9	8,116.2	0.00	0.00	0.00
18,000.0	90.00	179.62	10,575.0	-8,178.4	887.6	8,216.0	0.00	0.00	0.00
18,100.0	90.00	179.62	10,575.0	-8,278.4	888.2	8,315.9	0.00	0.00	0.00
18,200.0	90.00	179.62	10,575.0	-8,378.4	888.9	8,415.8	0.00	0.00	0.00
18,300.0	90.00	179.62	10,575.0	-8,478.4	889.6	8,515.7	0.00	0.00	0.00
18,400.0	90.00	179.62	10,575.0	-8,578.4	890.2	8,615.5	0.00	0.00	0.00
18,500.0	90.00	179.62	10,575.0	-8,678.4	890.9	8,715.4	0.00	0.00	0.00
18,600.0	90.00	179.62	10,575.0	-8,778.4	891.6	8,815.3	0.00	0.00	0.00
18,700.0	90.00	179.62	10,575.0	-8,878.4	892.2	8,915.1	0.00	0.00	0.00
18,800.0	90.00	179.62	10,575.0	-8,978.4	892.9	9,015.0	0.00	0.00	0.00
18,900.0	90.00	179.62	10,575.0	-9,078.4	893.5	9,114.9	0.00	0.00	0.00
19,000.0	90.00	179.62	10,575.0	-9,178.4	894.2	9,214.7	0.00	0.00	0.00
19,100.0	90.00	179.62	10,575.0	-9,278.4	894.9	9,314.6	0.00	0.00	0.00
19,200.0	90.00	179.62	10,575.0	-9,378.4	895.5	9,414.5	0.00	0.00	0.00
19,300.0	90.00	179.62	10,575.0	-9,478.4	896.2	9,514.3	0.00	0.00	0.00
19,400.0	90.00	179.62	10,575.0	-9,578.4	896.9	9,614.2	0.00	0.00	0.00
19,500.0	90.00	179.62	10,575.0	-9,678.4	897.5	9,714.1	0.00	0.00	0.00
19,600.0	90.00	179.62	10,575.0	-9,778.4	898.2	9,814.0	0.00	0.00	0.00
19,700.0	90.00	179.62	10,575.0	-9,878.4	898.8	9,913.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
19,800.0	90.00	179.62	10,575.0	-9,978.4	899.5	10,013.7	0.00	0.00	0.00	
19,900.0	90.00	179.62	10,575.0	-10,078.4	900.2	10,113.6	0.00	0.00	0.00	
20,000.0	90.00	179.62	10,575.0	-10,178.4	900.8	10,213.4	0.00	0.00	0.00	
20,100.0	90.00	179.62	10,575.0	-10,278.4	901.5	10,313.3	0.00	0.00	0.00	
20,200.0	90.00	179.62	10,575.0	-10,378.4	902.2	10,413.2	0.00	0.00	0.00	
20,300.0	90.00	179.62	10,575.0	-10,478.4	902.8	10,513.0	0.00	0.00	0.00	
20,400.0	90.00	179.62	10,575.0	-10,578.4	903.5	10,612.9	0.00	0.00	0.00	
20,500.0	90.00	179.62	10,575.0	-10,678.4	904.1	10,712.8	0.00	0.00	0.00	
20,600.0	90.00	179.62	10,575.0	-10,778.4	904.8	10,812.6	0.00	0.00	0.00	
20,700.0	90.00	179.62	10,575.0	-10,878.4	905.5	10,912.5	0.00	0.00	0.00	
20,800.0	90.00	179.62	10,575.0	-10,978.4	906.1	11,012.4	0.00	0.00	0.00	
20,900.0	90.00	179.62	10,575.0	-11,078.4	906.8	11,112.2	0.00	0.00	0.00	
21,000.0	90.00	179.62	10,575.0	-11,178.4	907.5	11,212.1	0.00	0.00	0.00	
21,100.0	90.00	179.62	10,575.0	-11,278.4	908.1	11,312.0	0.00	0.00	0.00	
21,200.0	90.00	179.62	10,575.0	-11,378.4	908.8	11,411.9	0.00	0.00	0.00	
21,300.0	90.00	179.62	10,575.0	-11,478.4	909.4	11,511.7	0.00	0.00	0.00	
21,400.0	90.00	179.62	10,575.0	-11,578.4	910.1	11,611.6	0.00	0.00	0.00	
21,500.0	90.00	179.62	10,575.0	-11,678.4	910.8	11,711.5	0.00	0.00	0.00	
21,600.0	90.00	179.62	10,575.0	-11,778.4	911.4	11,811.3	0.00	0.00	0.00	
21,700.0	90.00	179.62	10,575.0	-11,878.4	912.1	11,911.2	0.00	0.00	0.00	
21,800.0	90.00	179.62	10,575.0	-11,978.3	912.8	12,011.1	0.00	0.00	0.00	
21,900.0	90.00	179.62	10,575.0	-12,078.3	913.4	12,110.9	0.00	0.00	0.00	
22,000.0	90.00	179.62	10,575.0	-12,178.3	914.1	12,210.8	0.00	0.00	0.00	
22,100.0	90.00	179.62	10,575.0	-12,278.3	914.7	12,310.7	0.00	0.00	0.00	
22,200.0	90.00	179.62	10,575.0	-12,378.3	915.4	12,410.5	0.00	0.00	0.00	
22,300.0	90.00	179.62	10,575.0	-12,478.3	916.1	12,510.4	0.00	0.00	0.00	
22,400.0	90.00	179.62	10,575.0	-12,578.3	916.7	12,610.3	0.00	0.00	0.00	
22,500.0	90.00	179.62	10,575.0	-12,678.3	917.4	12,710.2	0.00	0.00	0.00	
22,600.0	90.00	179.62	10,575.0	-12,778.3	918.1	12,810.0	0.00	0.00	0.00	
22,700.0	90.00	179.62	10,575.0	-12,878.3	918.7	12,909.9	0.00	0.00	0.00	
22,800.0	90.00	179.62	10,575.0	-12,978.3	919.4	13,009.8	0.00	0.00	0.00	
22,900.0	90.00	179.62	10,575.0	-13,078.3	920.0	13,109.6	0.00	0.00	0.00	
23,000.0	90.00	179.62	10,575.0	-13,178.3	920.7	13,209.5	0.00	0.00	0.00	
23,100.0	90.00	179.62	10,575.0	-13,278.3	921.4	13,309.4	0.00	0.00	0.00	
23,200.0	90.00	179.62	10,575.0	-13,378.3	922.0	13,409.2	0.00	0.00	0.00	
23,300.0	90.00	179.62	10,575.0	-13,478.3	922.7	13,509.1	0.00	0.00	0.00	
23,400.0	90.00	179.62	10,575.0	-13,578.3	923.4	13,609.0	0.00	0.00	0.00	
23,500.0	90.00	179.62	10,575.0	-13,678.3	924.0	13,708.8	0.00	0.00	0.00	
23,600.0	90.00	179.62	10,575.0	-13,778.3	924.7	13,808.7	0.00	0.00	0.00	
23,700.0	90.00	179.62	10,575.0	-13,878.3	925.3	13,908.6	0.00	0.00	0.00	
23,800.0	90.00	179.62	10,575.0	-13,978.3	926.0	14,008.5	0.00	0.00	0.00	
23,900.0	90.00	179.62	10,575.0	-14,078.3	926.7	14,108.3	0.00	0.00	0.00	
24,000.0	90.00	179.62	10,575.0	-14,178.3	927.3	14,208.2	0.00	0.00	0.00	
24,100.0	90.00	179.62	10,575.0	-14,278.3	928.0	14,308.1	0.00	0.00	0.00	
24,200.0	90.00	179.62	10,575.0	-14,378.3	928.7	14,407.9	0.00	0.00	0.00	
24,300.0	90.00	179.62	10,575.0	-14,478.3	929.3	14,507.8	0.00	0.00	0.00	
24,400.0	90.00	179.62	10,575.0	-14,578.3	930.0	14,607.7	0.00	0.00	0.00	
24,500.0	90.00	179.62	10,575.0	-14,678.3	930.6	14,707.5	0.00	0.00	0.00	
24,600.0	90.00	179.62	10,575.0	-14,778.3	931.3	14,807.4	0.00	0.00	0.00	
24,700.0	90.00	179.62	10,575.0	-14,878.3	932.0	14,907.3	0.00	0.00	0.00	
24,800.0	90.00	179.62	10,575.0	-14,978.3	932.6	15,007.1	0.00	0.00	0.00	
24,900.0	90.00	179.62	10,575.0	-15,078.3	933.3	15,107.0	0.00	0.00	0.00	
25,000.0	90.00	179.62	10,575.0	-15,178.3	933.9	15,206.9	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Project:	ZEUS_NME	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site:	TARHEEL_DONKEY POTROAST PROJECT	North Reference:	Grid
Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	90.00	179.62	10,575.0	-15,278.3	934.6	15,306.8	0.00	0.00	0.00	
25,200.0	90.00	179.62	10,575.0	-15,378.3	935.3	15,406.6	0.00	0.00	0.00	
25,300.0	90.00	179.62	10,575.0	-15,478.3	935.9	15,506.5	0.00	0.00	0.00	
25,400.0	90.00	179.62	10,575.0	-15,578.3	936.6	15,606.4	0.00	0.00	0.00	
25,500.0	90.00	179.62	10,575.0	-15,678.3	937.3	15,706.2	0.00	0.00	0.00	
25,600.0	90.00	179.62	10,575.0	-15,778.3	937.9	15,806.1	0.00	0.00	0.00	
25,700.0	90.00	179.62	10,575.0	-15,878.3	938.6	15,906.0	0.00	0.00	0.00	
25,800.0	90.00	179.62	10,575.0	-15,978.3	939.2	16,005.8	0.00	0.00	0.00	
25,900.0	90.00	179.62	10,575.0	-16,078.3	939.9	16,105.7	0.00	0.00	0.00	
26,000.0	90.00	179.62	10,575.0	-16,178.3	940.6	16,205.6	0.00	0.00	0.00	
26,088.1	90.00	179.62	10,575.0	-16,266.3	941.2	16,293.5	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
LTP (DONKEY POTROAST) - plan misses target center by 38.1usft at 26000.0usft MD (10575.0 TVD, -16178.3 N, 940.6 E) - Circle (radius 50.0)	90.00	179.65	10,575.0	-16,216.3	940.8	554,469.12	710,114.47	32° 31' 20.991 N	103° 39' 5.926 W	
PBHL (DONKEY POTROAST) - plan hits target center - Rectangle (sides W100.0 H15,685.0 D20.0)	0.00	359.62	10,575.0	-16,266.3	941.2	554,419.12	710,114.79	32° 31' 20.497 N	103° 39' 5.926 W	
FTP (DONKEY POTROAST) - plan misses target center by 273.6usft at 10550.0usft MD (10394.2 TVD, -778.9 N, 838.6 E) - Circle (radius 50.0)	0.00	0.00	10,575.0	-573.7	837.5	570,111.79	710,011.18	32° 33' 55.785 N	103° 39' 5.963 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
26,088.1	10,575.0	5-1/2" Production Casing	5-1/2	6-3/4	

DELAWARE BASIN EAST

ZEUS_NME

TARHEEL_DONKEY POTROAST PROJECT

_DONKEY POTROAST FED COM 502H

OWB

PWP0

Anticollision Report

22 July, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	GRIZZOUGAR FEDERAL PROJECT - _GRIZZOUGAR FED COM 505H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1+MS												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance								
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation	Warning		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
25,600.0	10,575.0	10,362.5	10,338.9	154.6	16.2	-65.39	-16,422.4	1,610.4	980.2	811.5	168.68	5.811		
25,700.0	10,575.0	10,382.8	10,356.8	155.5	16.1	-66.65	-16,432.0	1,609.8	916.6	738.3	178.30	5.141		
25,800.0	10,575.0	10,406.6	10,377.3	156.5	16.1	-68.12	-16,444.2	1,609.0	858.7	670.6	188.12	4.565		
25,900.0	10,575.0	10,435.0	10,400.9	157.5	16.0	-69.86	-16,460.0	1,608.1	807.3	609.6	197.76	4.082		
26,000.0	10,575.0	10,469.0	10,427.8	158.4	16.0	-71.89	-16,480.8	1,606.8	763.2	556.5	206.72	3.692		
26,088.1	10,575.0	10,504.8	10,454.3	159.3	15.9	-73.95	-16,504.6	1,605.3	730.9	517.3	213.63	3.421 CC, ES, SF		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GRIZZOUGAR FEDERAL PROJECT - _GRIZZOUGAR FED COM 506H - OWB - PWP0												Offset Site Error: 0.0 usft			
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		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)	Distance (usft)	Factor			
25,500.0	10,575.0	10,375.0	10,292.7	153.6	24.7	39.76	-16,539.2	649.9	973.6	860.9	112.70	8.639			
25,600.0	10,575.0	10,400.0	10,315.8	154.6	24.7	41.68	-16,548.7	650.0	885.9	768.4	117.55	7.536			
25,700.0	10,575.0	10,412.1	10,326.8	155.5	24.7	42.64	-16,553.7	650.0	800.5	675.7	124.74	6.417			
25,800.0	10,575.0	10,425.0	10,338.4	156.5	24.7	43.70	-16,559.4	650.1	717.9	584.6	133.31	5.385			
25,900.0	10,575.0	10,450.0	10,360.4	157.5	24.7	45.83	-16,571.3	650.2	638.8	496.5	142.24	4.491			
26,000.0	10,575.0	10,475.0	10,381.7	158.4	24.7	48.05	-16,584.3	650.4	564.3	411.2	153.10	3.686			
26,088.1	10,575.0	10,500.0	10,402.4	159.3	24.7	50.35	-16,598.4	650.6	503.6	339.5	164.07	3.069 CC, ES, SF			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GRIZZOUGAR FEDERAL PROJECT - _GRIZZOUGAR FED COM 705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS		Rule Assigned:											Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				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)	No-Go Distance (usft)	Separation Factor		
25,500.0	10,575.0	10,645.5	10,645.0	153.6	14.7	-90.00	-16,426.8	1,491.3	931.3	799.9	131.44	7.085		
25,600.0	10,575.0	10,645.5	10,645.0	154.6	14.7	-90.00	-16,426.8	1,491.3	852.6	709.9	142.72	5.974		
25,700.0	10,575.0	10,645.5	10,645.0	155.5	14.7	-90.00	-16,426.8	1,491.3	778.8	623.1	155.66	5.003		
25,800.0	10,575.0	10,645.5	10,645.0	156.5	14.7	-90.00	-16,426.8	1,491.3	711.4	541.2	170.16	4.180		
25,900.0	10,575.0	10,645.5	10,645.0	157.5	14.7	-90.00	-16,426.8	1,491.3	652.4	466.6	185.73	3.513		
26,000.0	10,575.0	10,645.5	10,645.0	158.4	14.7	-90.00	-16,426.8	1,491.3	604.3	403.1	201.19	3.003		
26,088.1	10,575.0	10,645.5	10,645.0	159.3	14.7	-90.00	-16,426.8	1,491.3	573.1	359.9	213.19	2.688	Normal Operations, CC, ES, SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	GRIZZOUGAR FEDERAL PROJECT - _GRIZZOUGAR FED COM 706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1+MS											Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
25,300.0	10,575.0	10,723.7	10,645.0	151.7	25.0	90.00	-16,414.4	648.1	979.3	889.7	89.70	10.919	
25,400.0	10,575.0	10,723.7	10,645.0	152.6	25.0	90.00	-16,414.4	648.1	884.5	789.2	95.26	9.285	
25,500.0	10,575.0	10,723.7	10,645.0	153.6	25.0	90.00	-16,414.4	648.1	790.9	688.6	102.28	7.732	
25,600.0	10,575.0	10,723.7	10,645.0	154.6	25.0	90.00	-16,414.4	648.1	699.0	587.8	111.26	6.283	
25,700.0	10,575.0	10,723.7	10,645.0	155.5	25.0	90.00	-16,414.4	648.1	609.8	486.8	122.94	4.960	
25,800.0	10,575.0	10,723.7	10,645.0	156.5	25.0	90.00	-16,414.4	648.1	524.4	386.1	138.24	3.793	
25,900.0	10,575.0	10,723.7	10,645.0	157.5	25.0	90.00	-16,414.4	648.1	445.1	287.0	158.17	2.814	Normal Operations
26,000.0	10,575.0	10,723.7	10,645.0	158.4	25.0	90.00	-16,414.4	648.1	375.9	193.0	182.90	2.055	Caution - Monitor Closely
26,088.1	10,575.0	10,723.7	10,645.0	159.3	25.0	90.00	-16,414.4	648.1	328.3	122.2	206.17	1.593	Caution - Monitor Closely, CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #401H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 9091-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-22.26	149.5	-61.2	161.6	155.2	6.43	25.134		
100.0	100.0	100.0	100.0	3.2	3.1	-22.26	149.5	-61.2	161.6	154.8	6.79	23.815		
200.0	200.0	200.0	200.0	3.5	3.2	-22.26	149.5	-61.2	161.6	154.5	7.13	22.672		
300.0	300.0	300.0	300.0	3.7	3.4	-22.26	149.5	-61.2	161.6	154.1	7.46	21.668		
400.0	400.0	400.0	400.0	3.9	3.5	-22.26	149.5	-61.2	161.6	153.8	7.78	20.777		
500.0	500.0	500.0	500.0	4.1	3.6	-22.26	149.5	-61.2	161.6	153.5	8.09	19.979		
600.0	600.0	600.0	600.0	4.2	3.7	-22.26	149.5	-61.2	161.6	153.2	8.39	19.258		
700.0	700.0	700.0	700.0	4.4	3.9	-22.26	149.5	-61.2	161.6	152.9	8.69	18.602		
800.0	800.0	800.0	800.0	4.6	4.0	-22.26	149.5	-61.2	161.6	152.6	8.98	18.002		
900.0	900.0	900.0	900.0	4.8	4.1	-22.26	149.5	-61.2	161.6	152.3	9.26	17.451		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.2	-22.26	149.5	-61.2	161.6	152.0	9.54	16.941		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	4.3	-22.26	149.5	-61.2	161.6	151.8	9.81	16.468		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	4.5	-22.26	149.5	-61.2	161.6	151.5	10.08	16.028		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	4.6	-22.26	149.5	-61.2	161.6	151.2	10.35	15.617		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	4.7	-22.26	149.5	-61.2	161.6	151.0	10.61	15.231		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	4.8	-22.26	149.5	-61.2	161.6	150.7	10.87	14.869 CC, ES		
1,600.0	1,600.0	1,602.2	1,602.2	5.9	5.0	-149.84	148.2	-62.5	162.4	151.2	11.17	14.541		
1,700.0	1,699.8	1,704.0	1,703.8	6.1	5.1	-152.49	144.4	-66.3	165.1	153.6	11.44	14.432 SF		
1,800.0	1,799.5	1,804.9	1,804.3	6.3	5.2	-156.65	138.0	-72.5	170.2	158.5	11.73	14.518		
1,900.0	1,898.7	1,904.6	1,903.2	6.6	5.3	-161.94	129.2	-81.2	178.9	166.8	12.04	14.852		
2,000.0	1,997.5	2,002.3	1,999.8	6.9	5.4	-167.73	118.5	-91.6	192.0	179.7	12.36	15.536		
2,100.0	2,095.6	2,098.8	2,095.2	7.2	5.4	-172.93	107.7	-102.2	210.4	197.6	12.75	16.498		
2,188.3	2,181.7	2,183.4	2,178.7	7.4	5.5	-176.87	98.2	-111.4	230.7	217.6	13.09	17.627		
2,200.0	2,193.1	2,194.6	2,189.7	7.4	5.5	-177.35	97.0	-112.7	233.6	220.5	13.12	17.806		
2,300.0	2,290.2	2,290.0	2,284.0	7.7	5.6	179.01	86.3	-123.1	259.3	245.7	13.53	19.159		
2,400.0	2,387.3	2,385.5	2,378.2	8.0	5.7	176.01	75.6	-133.6	285.7	271.8	13.91	20.535		
2,500.0	2,484.4	2,480.9	2,472.5	8.3	5.8	173.52	64.9	-144.0	312.8	298.5	14.32	21.851		
2,600.0	2,581.6	2,576.3	2,566.8	8.7	5.9	171.42	54.2	-154.5	340.4	325.6	14.74	23.099		
2,700.0	2,678.7	2,671.8	2,661.0	9.0	6.0	169.64	43.5	-164.9	368.3	353.1	15.17	24.277		
2,800.0	2,775.8	2,767.2	2,755.3	9.4	6.1	168.10	32.9	-175.4	396.5	380.9	15.62	25.383		
2,900.0	2,873.0	2,862.6	2,849.5	9.7	6.2	166.77	22.2	-185.8	424.9	408.9	16.08	26.419		
3,000.0	2,970.1	2,958.0	2,943.8	10.1	6.4	165.60	11.5	-196.3	453.6	437.0	16.56	27.388		
3,100.0	3,067.2	3,053.5	3,038.0	10.5	6.5	164.58	0.8	-206.8	482.4	465.3	17.05	28.294		
3,200.0	3,164.3	3,148.9	3,132.3	10.9	6.6	163.66	-9.9	-217.2	511.3	493.7	17.55	29.139		
3,300.0	3,261.5	3,244.3	3,226.5	11.3	6.7	162.85	-20.6	-227.7	540.3	522.2	18.05	29.928		
3,400.0	3,358.6	3,339.8	3,320.8	11.7	6.9	162.11	-31.2	-238.1	569.4	550.8	18.57	30.665		
3,500.0	3,455.7	3,435.2	3,415.0	12.1	7.0	161.45	-41.9	-248.6	598.5	579.5	19.09	31.352		
3,600.0	3,552.9	3,530.6	3,509.3	12.5	7.1	160.85	-52.6	-259.0	627.8	608.2	19.62	31.995		
3,700.0	3,650.0	3,626.1	3,603.5	12.9	7.3	160.30	-63.3	-269.5	657.1	636.9	20.16	32.596		
3,800.0	3,747.1	3,721.5	3,697.8	13.4	7.4	159.80	-74.0	-279.9	686.5	665.8	20.70	33.157		
3,900.0	3,844.2	3,816.9	3,792.0	13.8	7.6	159.34	-84.7	-290.4	715.9	694.6	21.25	33.683		
4,000.0	3,941.4	3,912.3	3,886.3	14.2	7.7	158.92	-95.3	-300.8	745.3	723.5	21.81	34.176		
4,100.0	4,038.5	4,007.8	3,980.5	14.7	7.9	158.53	-106.0	-311.3	774.8	752.4	22.37	34.638		
4,200.0	4,135.6	4,103.2	4,074.8	15.1	8.0	158.17	-116.7	-321.7	804.3	781.3	22.93	35.072		
4,300.0	4,232.7	4,198.6	4,169.0	15.5	8.2	157.83	-127.4	-332.2	833.8	810.3	23.50	35.480		
4,400.0	4,329.9	4,294.1	4,263.3	16.0	8.4	157.52	-138.1	-342.7	863.3	839.3	24.07	35.863		
4,500.0	4,427.0	4,389.5	4,357.5	16.4	8.5	157.22	-148.8	-353.1	892.9	868.3	24.65	36.224		
4,600.0	4,524.1	4,484.9	4,451.8	16.9	8.7	156.95	-159.4	-363.6	922.5	897.3	25.23	36.564		
4,700.0	4,621.3	4,580.3	4,546.0	17.4	8.8	156.69	-170.1	-374.0	952.1	926.3	25.81	36.885		
4,800.0	4,718.4	4,675.8	4,640.3	17.8	9.0	156.45	-180.8	-384.5	981.8	955.4	26.40	37.187		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #402H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	30.43	150.7	88.5	174.7	168.3	6.43	27.182		
100.0	100.0	100.0	100.0	3.2	3.2	30.43	150.7	88.5	174.7	167.9	6.89	25.354		
200.0	200.0	200.0	200.0	3.5	3.5	30.43	150.7	88.5	174.7	167.4	7.33	23.846		
300.0	300.0	300.0	300.0	3.7	3.7	30.43	150.7	88.5	174.7	167.0	7.74	22.573		
400.0	400.0	400.0	400.0	3.9	3.9	30.43	150.7	88.5	174.7	166.6	8.14	21.480		
500.0	500.0	500.0	500.0	4.1	4.1	30.43	150.7	88.5	174.7	166.2	8.51	20.526		
600.0	600.0	600.0	600.0	4.2	4.2	30.43	150.7	88.5	174.7	165.9	8.88	19.684		
700.0	700.0	700.0	700.0	4.4	4.4	30.43	150.7	88.5	174.7	165.5	9.23	18.934		
800.0	800.0	800.0	800.0	4.6	4.6	30.43	150.7	88.5	174.7	165.2	9.57	18.259		
900.0	900.0	900.0	900.0	4.8	4.8	30.43	150.7	88.5	174.7	164.8	9.90	17.648		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	30.43	150.7	88.5	174.7	164.5	10.22	17.091		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	30.43	150.7	88.5	174.7	164.2	10.54	16.580		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	30.43	150.7	88.5	174.7	163.9	10.85	16.109		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	30.43	150.7	88.5	174.7	163.6	11.15	15.674		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	30.43	150.7	88.5	174.7	163.3	11.44	15.269		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	30.43	150.7	88.5	174.7	163.0	11.73	14.892 CC		
1,600.0	1,600.0	1,599.9	1,599.9	5.9	5.9	-96.24	149.8	90.0	175.0	163.0	11.99	14.588 ES		
1,700.0	1,699.8	1,699.8	1,699.7	6.1	6.1	-96.21	147.2	94.6	175.6	163.4	12.23	14.364		
1,800.0	1,799.5	1,799.7	1,799.2	6.3	6.4	-96.18	142.9	102.1	176.7	164.2	12.46	14.182		
1,900.0	1,898.7	1,899.6	1,898.3	6.6	6.6	-96.13	136.9	112.7	178.2	165.5	12.69	14.037		
2,000.0	1,997.5	1,999.5	1,997.0	6.9	6.9	-96.07	129.2	126.3	180.1	167.2	12.94	13.923		
2,100.0	2,095.6	2,099.4	2,095.0	7.2	7.1	-96.00	119.8	142.8	182.4	169.3	13.16	13.858		
2,188.3	2,181.7	2,187.6	2,181.4	7.4	7.4	-96.44	110.9	158.5	184.8	171.4	13.44	13.751		
2,200.0	2,193.1	2,199.3	2,192.9	7.4	7.4	-96.56	109.7	160.5	185.2	171.7	13.47	13.746		
2,300.0	2,290.2	2,299.2	2,290.7	7.7	7.7	-97.57	99.6	178.3	188.1	174.3	13.81	13.622		
2,400.0	2,387.3	2,399.2	2,388.5	8.0	8.0	-98.54	89.5	196.0	191.1	177.0	14.11	13.545		
2,500.0	2,484.4	2,499.1	2,486.3	8.3	8.3	-99.48	79.4	213.8	194.1	179.7	14.42	13.463		
2,600.0	2,581.6	2,599.0	2,584.1	8.7	8.6	-100.39	69.3	231.5	197.2	182.5	14.75	13.375		
2,700.0	2,678.7	2,698.9	2,681.9	9.0	8.9	-101.27	59.3	249.2	200.4	185.3	15.08	13.282		
2,800.0	2,775.8	2,798.8	2,779.7	9.4	9.3	-102.13	49.2	267.0	203.5	188.1	15.44	13.185		
2,900.0	2,873.0	2,898.7	2,877.5	9.7	9.6	-102.96	39.1	284.7	206.8	191.0	15.80	13.083		
3,000.0	2,970.1	2,998.6	2,975.3	10.1	10.0	-103.76	29.0	302.5	210.0	193.9	16.18	12.978		
3,100.0	3,067.2	3,098.5	3,073.1	10.5	10.4	-104.54	18.9	320.2	213.3	196.8	16.58	12.871		
3,200.0	3,164.3	3,198.4	3,170.8	10.9	10.7	-105.30	8.8	337.9	216.7	199.7	16.98	12.760		
3,300.0	3,261.5	3,298.3	3,268.6	11.3	11.1	-106.03	-1.3	355.7	220.1	202.7	17.40	12.647		
3,400.0	3,358.6	3,398.2	3,366.4	11.7	11.5	-106.74	-11.4	373.4	223.5	205.7	17.83	12.533		
3,500.0	3,455.7	3,498.1	3,464.2	12.1	11.9	-107.43	-21.5	391.2	227.0	208.7	18.28	12.417		
3,600.0	3,552.9	3,598.0	3,562.0	12.5	12.3	-108.10	-31.5	408.9	230.4	211.7	18.73	12.301		
3,700.0	3,650.0	3,697.9	3,659.8	12.9	12.7	-108.75	-41.6	426.6	234.0	214.8	19.20	12.184		
3,800.0	3,747.1	3,797.8	3,757.6	13.4	13.1	-109.37	-51.7	444.4	237.5	217.8	19.68	12.066		
3,900.0	3,844.2	3,897.7	3,855.4	13.8	13.6	-109.98	-61.8	462.1	241.1	220.9	20.18	11.949		
4,000.0	3,941.4	3,997.6	3,953.2	14.2	14.0	-110.58	-71.9	479.8	244.7	224.0	20.68	11.833		
4,100.0	4,038.5	4,097.5	4,051.0	14.7	14.4	-111.15	-82.0	497.6	248.3	227.1	21.19	11.717		
4,200.0	4,135.6	4,197.4	4,148.8	15.1	14.8	-111.71	-92.1	515.3	252.0	230.2	21.72	11.602		
4,300.0	4,232.7	4,297.3	4,246.6	15.5	15.3	-112.25	-102.2	533.1	255.6	233.4	22.25	11.489		
4,400.0	4,329.9	4,397.2	4,344.4	16.0	15.7	-112.78	-112.3	550.8	259.3	236.5	22.79	11.377		
4,500.0	4,427.0	4,497.1	4,442.2	16.4	16.1	-113.29	-122.4	568.5	263.0	239.7	23.35	11.266		
4,600.0	4,524.1	4,597.0	4,540.0	16.9	16.6	-113.79	-132.4	586.3	266.8	242.9	23.91	11.158		
4,700.0	4,621.3	4,696.9	4,637.8	17.4	17.0	-114.27	-142.5	604.0	270.5	246.1	24.48	11.051		
4,800.0	4,718.4	4,796.8	4,735.6	17.8	17.5	-114.74	-152.6	621.8	274.3	249.2	25.06	10.946		
4,900.0	4,815.5	4,896.7	4,833.4	18.3	17.9	-115.20	-162.7	639.5	278.1	252.5	25.65	10.843		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #402H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned: Distance			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)	No-Go Distance (usft)	Separation Factor	Warning	
5,000.0	4,912.6	4,996.6	4,931.2	18.7	18.3	-115.65	-172.8	657.2	281.9	255.7	26.24	10.742		
5,100.0	5,009.8	5,096.5	5,029.0	19.2	18.8	-116.08	-182.9	675.0	285.7	258.9	26.85	10.643		
5,200.0	5,106.9	5,196.5	5,126.8	19.6	19.2	-116.50	-193.0	692.7	289.6	262.1	27.46	10.546		
5,300.0	5,204.0	5,296.4	5,224.6	20.1	19.7	-116.91	-203.1	710.4	293.4	265.4	28.08	10.452		
5,400.0	5,301.2	5,396.3	5,322.4	20.6	20.1	-117.31	-213.2	728.2	297.3	268.6	28.70	10.359		
5,500.0	5,398.3	5,494.5	5,418.7	21.0	20.6	-117.83	-222.7	745.0	301.5	272.1	29.35	10.270		
5,539.5	5,436.7	5,533.2	5,456.7	21.2	20.7	-118.11	-226.3	751.2	303.3	273.7	29.62	10.240		
5,600.0	5,495.5	5,592.4	5,515.0	21.5	21.0	-118.59	-231.5	760.4	306.1	276.1	30.03	10.192		
5,700.0	5,593.0	5,690.2	5,611.5	22.0	21.4	-119.37	-239.4	774.3	310.7	279.9	30.74	10.107		
5,800.0	5,691.0	5,788.0	5,708.2	22.4	21.8	-120.14	-246.4	786.7	315.1	283.7	31.43	10.025		
5,900.0	5,789.3	5,885.6	5,805.0	22.9	22.2	-120.90	-252.7	797.7	319.3	287.2	32.11	9.946		
6,000.0	5,887.8	5,983.2	5,902.0	23.3	22.6	-121.65	-258.2	807.3	323.5	290.7	32.77	9.870		
6,100.0	5,986.7	6,080.7	5,999.0	23.7	23.0	-122.39	-262.8	815.4	327.4	294.0	33.42	9.796		
6,200.0	6,085.8	6,178.1	6,096.1	24.1	23.4	-123.12	-266.6	822.1	331.2	297.2	34.06	9.725		
6,300.0	6,185.1	6,275.4	6,193.2	24.5	23.7	-123.84	-269.6	827.4	334.9	300.2	34.68	9.657		
6,400.0	6,284.6	6,372.6	6,290.4	24.9	24.0	-124.56	-271.7	831.2	338.4	303.1	35.28	9.592		
6,500.0	6,384.3	6,469.8	6,387.5	25.3	24.3	-125.27	-273.1	833.6	341.7	305.9	35.85	9.532		
6,600.0	6,484.1	6,566.9	6,484.6	25.7	24.5	-125.98	-273.6	834.5	344.9	308.5	36.37	9.484		
6,700.0	6,584.0	6,666.3	6,584.0	26.0	24.5	-126.62	-273.6	834.5	347.6	310.8	36.83	9.438		
6,800.0	6,683.9	6,766.3	6,683.9	26.3	24.6	-127.01	-273.6	834.5	349.4	312.2	37.21	9.390		
6,900.0	6,783.9	6,866.3	6,783.9	26.5	24.6	-127.17	-273.6	834.5	350.1	312.6	37.45	9.347		
6,916.1	6,800.0	6,882.3	6,800.0	26.5	24.6	-0.50	-273.6	834.5	350.1	312.6	37.47	9.343		
7,000.0	6,883.9	6,966.3	6,883.9	26.6	24.6	-0.50	-273.6	834.5	350.1	312.5	37.54	9.326		
7,100.0	6,983.9	7,066.3	6,983.9	26.6	24.6	-0.50	-273.6	834.5	350.1	312.5	37.62	9.307		
7,200.0	7,083.9	7,166.3	7,083.9	26.6	24.7	-0.50	-273.6	834.5	350.1	312.4	37.70	9.287		
7,300.0	7,183.9	7,266.3	7,183.9	26.6	24.7	-0.50	-273.6	834.5	350.1	312.3	37.78	9.268		
7,400.0	7,283.9	7,366.3	7,283.9	26.6	24.7	-0.50	-273.6	834.5	350.1	312.2	37.86	9.248		
7,500.0	7,383.9	7,466.3	7,383.9	26.7	24.8	-0.50	-273.6	834.5	350.1	312.1	37.94	9.228		
7,600.0	7,483.9	7,566.3	7,483.9	26.7	24.8	-0.50	-273.6	834.5	350.1	312.1	38.02	9.208		
7,700.0	7,583.9	7,666.3	7,583.9	26.7	24.8	-0.50	-273.6	834.5	350.1	312.0	38.10	9.189		
7,800.0	7,683.9	7,766.3	7,683.9	26.7	24.8	-0.50	-273.6	834.5	350.1	311.9	38.18	9.169		
7,900.0	7,783.9	7,866.3	7,783.9	26.8	24.9	-0.50	-273.6	834.5	350.1	311.8	38.27	9.149		
8,000.0	7,883.9	7,966.3	7,883.9	26.8	24.9	-0.50	-273.6	834.5	350.1	311.7	38.35	9.129		
8,100.0	7,983.9	8,066.3	7,983.9	26.8	24.9	-0.50	-273.6	834.5	350.1	311.7	38.43	9.109		
8,200.0	8,083.9	8,166.3	8,083.9	26.9	25.0	-0.50	-273.6	834.5	350.1	311.6	38.52	9.089		
8,300.0	8,183.9	8,266.3	8,183.9	26.9	25.0	-0.50	-273.6	834.5	350.1	311.5	38.60	9.069		
8,400.0	8,283.9	8,366.3	8,283.9	26.9	25.0	-0.50	-273.6	834.5	350.1	311.4	38.69	9.049		
8,500.0	8,383.9	8,466.3	8,383.9	26.9	25.1	-0.50	-273.6	834.5	350.1	311.3	38.77	9.029		
8,600.0	8,483.9	8,566.3	8,483.9	27.0	25.1	-0.50	-273.6	834.5	350.1	311.2	38.86	9.009		
8,700.0	8,583.9	8,666.3	8,583.9	27.0	25.1	-0.50	-273.6	834.5	350.1	311.1	38.95	8.988		
8,800.0	8,683.9	8,766.3	8,683.9	27.0	25.2	-0.50	-273.6	834.5	350.1	311.1	39.04	8.968		
8,900.0	8,783.9	8,866.3	8,783.9	27.0	25.2	-0.50	-273.6	834.5	350.1	311.0	39.12	8.948		
9,000.0	8,883.9	8,966.3	8,883.9	27.1	25.2	-0.50	-273.6	834.5	350.1	310.9	39.21	8.928		
9,012.4	8,896.3	8,978.6	8,896.3	27.1	25.2	-0.50	-273.6	834.5	350.1	310.9	39.22	8.925 SF		
9,100.0	8,983.9	9,061.4	8,979.1	27.1	25.2	-0.50	-273.6	834.5	350.2	311.0	39.21	8.931		
9,200.0	9,083.9	9,118.7	9,036.2	27.1	25.2	-0.50	-269.4	834.5	357.6	319.1	38.48	9.293		
9,300.0	9,183.9	9,175.0	9,091.4	27.2	25.1	-0.50	-258.6	834.4	376.7	339.0	37.67	10.000		
9,400.0	9,283.9	9,225.0	9,139.1	27.2	25.0	-0.50	-243.6	834.2	406.8	369.9	36.84	11.042		
9,500.0	9,383.9	9,275.0	9,185.0	27.2	24.9	-0.50	-223.8	834.1	446.7	410.5	36.18	12.348		
9,600.0	9,483.9	9,325.0	9,228.5	27.2	24.8	-0.50	-199.2	833.8	495.4	459.7	35.71	13.872		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #402H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	3.0 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)	No-Go Distance (usft)	Separation Factor	
9,700.0	9,583.9	9,358.7	9,256.2	27.3	24.7	-0.50	-180.2	833.7	551.5	516.2	35.31	15.619	
9,800.0	9,683.9	9,400.0	9,288.4	27.3	24.6	-0.50	-154.2	833.4	613.9	578.8	35.15	17.465	
9,900.0	9,783.9	9,425.0	9,306.7	27.3	24.6	-0.50	-137.2	833.3	681.5	646.4	35.08	19.426	
10,000.0	9,883.9	9,450.0	9,324.1	27.4	24.6	-0.50	-119.2	833.1	753.6	718.5	35.16	21.433	
10,100.0	9,983.9	9,475.0	9,340.5	27.4	24.5	-0.50	-100.4	832.9	829.4	794.1	35.34	23.470	
10,118.1	10,002.0	9,475.0	9,340.5	27.4	24.5	-0.50	-100.4	832.9	843.5	808.1	35.38	23.842	
10,150.0	10,033.9	9,488.4	9,348.9	27.4	24.5	179.87	-89.9	832.8	869.0	833.5	35.46	24.504	
10,200.0	10,083.7	9,500.0	9,355.9	27.6	24.5	179.85	-80.7	832.8	911.5	875.9	35.64	25.579	
10,250.0	10,132.8	9,500.0	9,355.9	27.7	24.5	179.81	-80.7	832.8	956.6	920.7	35.82	26.704	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-11.77	149.8	-31.2	153.0	146.6	6.43	23.797		
100.0	100.0	100.0	100.0	3.2	3.2	-11.77	149.8	-31.2	153.0	146.1	6.89	22.197		
200.0	200.0	200.0	200.0	3.5	3.5	-11.77	149.8	-31.2	153.0	145.7	7.33	20.877		
300.0	300.0	300.0	300.0	3.7	3.7	-11.77	149.8	-31.2	153.0	145.2	7.74	19.763		
400.0	400.0	400.0	400.0	3.9	3.9	-11.77	149.8	-31.2	153.0	144.9	8.14	18.805		
500.0	500.0	500.0	500.0	4.1	4.1	-11.77	149.8	-31.2	153.0	144.5	8.51	17.970		
600.0	600.0	600.0	600.0	4.2	4.2	-11.77	149.8	-31.2	153.0	144.1	8.88	17.233		
700.0	700.0	700.0	700.0	4.4	4.4	-11.77	149.8	-31.2	153.0	143.8	9.23	16.576		
800.0	800.0	800.0	800.0	4.6	4.6	-11.77	149.8	-31.2	153.0	143.4	9.57	15.986		
900.0	900.0	900.0	900.0	4.8	4.8	-11.77	149.8	-31.2	153.0	143.1	9.90	15.451		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-11.77	149.8	-31.2	153.0	142.8	10.22	14.963		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-11.77	149.8	-31.2	153.0	142.5	10.54	14.516		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-11.77	149.8	-31.2	153.0	142.1	10.85	14.104		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	-11.77	149.8	-31.2	153.0	141.8	11.15	13.722		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	-11.77	149.8	-31.2	153.0	141.5	11.44	13.368		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	-11.77	149.8	-31.2	153.0	141.3	11.73	13.038 CC		
1,600.0	1,600.0	1,603.2	1,603.2	5.9	5.9	-139.45	148.4	-32.5	153.3	141.2	12.07	12.696 ES		
1,700.0	1,699.8	1,705.9	1,705.7	6.1	6.1	-142.41	144.3	-36.2	154.3	141.9	12.39	12.461		
1,800.0	1,799.5	1,807.8	1,807.2	6.3	6.4	-147.18	137.5	-42.3	157.0	144.3	12.72	12.346 SF		
1,900.0	1,898.7	1,908.5	1,907.1	6.6	6.6	-153.40	128.2	-50.7	162.5	149.4	13.08	12.426		
2,000.0	1,997.5	2,007.5	2,004.8	6.9	6.9	-160.56	116.5	-61.3	172.1	158.7	13.46	12.787		
2,100.0	2,095.6	2,103.8	2,099.6	7.2	7.1	-167.52	103.8	-72.8	187.3	173.4	13.90	13.478		
2,188.3	2,181.7	2,188.2	2,182.6	7.4	7.3	-172.86	92.7	-82.9	205.6	191.4	14.26	14.419		
2,200.0	2,193.1	2,199.3	2,193.6	7.4	7.3	-173.51	91.2	-84.2	208.4	194.1	14.30	14.571		
2,300.0	2,290.2	2,294.5	2,287.3	7.7	7.6	-178.47	78.7	-95.6	232.6	217.9	14.75	15.774		
2,400.0	2,387.3	2,389.7	2,380.9	8.0	7.8	177.51	66.1	-106.9	258.2	243.1	15.17	17.025		
2,500.0	2,484.4	2,484.8	2,474.6	8.3	8.1	174.20	53.6	-118.3	284.8	269.2	15.61	18.247		
2,600.0	2,581.6	2,580.0	2,568.2	8.7	8.4	171.46	41.0	-129.7	312.2	296.1	16.08	19.422		
2,700.0	2,678.7	2,675.2	2,661.9	9.0	8.7	169.15	28.4	-141.0	340.2	323.6	16.56	20.540		
2,800.0	2,775.8	2,770.4	2,755.5	9.4	9.0	167.19	15.9	-152.4	368.5	351.5	17.06	21.598		
2,900.0	2,873.0	2,865.5	2,849.2	9.7	9.4	165.51	3.3	-163.8	397.3	379.7	17.58	22.593		
3,000.0	2,970.1	2,960.7	2,942.8	10.1	9.7	164.06	-9.2	-175.1	426.3	408.1	18.12	23.525		
3,100.0	3,067.2	3,055.9	3,036.5	10.5	10.0	162.79	-21.8	-186.5	455.5	436.8	18.67	24.397		
3,200.0	3,164.3	3,151.1	3,130.1	10.9	10.4	161.67	-34.3	-197.9	484.9	465.6	19.23	25.212		
3,300.0	3,261.5	3,246.2	3,223.8	11.3	10.7	160.68	-46.9	-209.2	514.4	494.6	19.81	25.973		
3,400.0	3,358.6	3,341.4	3,317.5	11.7	11.1	159.79	-59.5	-220.6	544.1	523.7	20.39	26.683		
3,500.0	3,455.7	3,436.6	3,411.1	12.1	11.5	159.00	-72.0	-232.0	573.9	552.9	20.99	27.346		
3,600.0	3,552.9	3,531.7	3,504.8	12.5	11.8	158.29	-84.6	-243.3	603.8	582.2	21.59	27.964		
3,700.0	3,650.0	3,626.9	3,598.4	12.9	12.2	157.64	-97.1	-254.7	633.7	611.5	22.20	28.542		
3,800.0	3,747.1	3,722.1	3,692.1	13.4	12.6	157.05	-109.7	-266.1	663.7	640.9	22.82	29.081		
3,900.0	3,844.2	3,817.3	3,785.7	13.8	13.0	156.51	-122.2	-277.4	693.8	670.4	23.45	29.586		
4,000.0	3,941.4	3,912.4	3,879.4	14.2	13.4	156.01	-134.8	-288.8	724.0	699.9	24.08	30.059		
4,100.0	4,038.5	4,007.6	3,973.0	14.7	13.7	155.56	-147.4	-300.1	754.1	729.4	24.72	30.502		
4,200.0	4,135.6	4,102.8	4,066.7	15.1	14.1	155.14	-159.9	-311.5	784.4	759.0	25.37	30.918		
4,300.0	4,232.7	4,198.0	4,160.3	15.5	14.5	154.75	-172.5	-322.9	814.6	788.6	26.02	31.308		
4,400.0	4,329.9	4,293.1	4,254.0	16.0	14.9	154.39	-185.0	-334.2	844.9	818.2	26.67	31.675		
4,500.0	4,427.0	4,388.3	4,347.7	16.4	15.3	154.05	-197.6	-345.6	875.2	847.9	27.33	32.020		
4,600.0	4,524.1	4,483.5	4,441.3	16.9	15.7	153.74	-210.1	-357.0	905.5	877.5	28.00	32.345		
4,700.0	4,621.3	4,578.7	4,535.0	17.4	16.1	153.45	-222.7	-368.3	935.9	907.2	28.66	32.652		
4,800.0	4,718.4	4,673.8	4,628.6	17.8	16.5	153.17	-235.3	-379.7	966.3	936.9	29.33	32.941		
4,900.0	4,815.5	4,769.0	4,722.3	18.3	16.9	152.91	-247.8	-391.1	996.7	966.7	30.01	33.215		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #501H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		Distance					
Depth	Depth	Depth	Depth			Toolface	+N/-S	Between	Between	No-Go	Separation		Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	Centres	Ellipses	Distance	Factor		
								(usft)	(usft)	(usft)			

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	21.34	150.5	58.8	161.5	155.1	6.43	25.127		
100.0	100.0	100.0	100.0	3.2	3.2	21.34	150.5	58.8	161.5	154.6	6.89	23.438		
200.0	200.0	200.0	200.0	3.5	3.5	21.34	150.5	58.8	161.5	154.2	7.33	22.044		
300.0	300.0	300.0	300.0	3.7	3.7	21.34	150.5	58.8	161.5	153.8	7.74	20.867		
400.0	400.0	400.0	400.0	3.9	3.9	21.34	150.5	58.8	161.5	153.4	8.14	19.856		
500.0	500.0	500.0	500.0	4.1	4.1	21.34	150.5	58.8	161.5	153.0	8.51	18.974		
600.0	600.0	600.0	600.0	4.2	4.2	21.34	150.5	58.8	161.5	152.7	8.88	18.196		
700.0	700.0	700.0	700.0	4.4	4.4	21.34	150.5	58.8	161.5	152.3	9.23	17.503		
800.0	800.0	800.0	800.0	4.6	4.6	21.34	150.5	58.8	161.5	152.0	9.57	16.879		
900.0	900.0	900.0	900.0	4.8	4.8	21.34	150.5	58.8	161.5	151.6	9.90	16.314		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	21.34	150.5	58.8	161.5	151.3	10.22	15.799		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	21.34	150.5	58.8	161.5	151.0	10.54	15.327		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	21.34	150.5	58.8	161.5	150.7	10.85	14.892		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	21.34	150.5	58.8	161.5	150.4	11.15	14.489		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	21.34	150.5	58.8	161.5	150.1	11.44	14.115		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	21.34	150.5	58.8	161.5	149.8	11.73	13.766 CC		
1,600.0	1,600.0	1,601.1	1,601.1	5.9	5.9	-105.31	149.5	60.3	161.7	149.6	12.00	13.467 ES		
1,700.0	1,699.8	1,702.3	1,702.1	6.1	6.1	-105.26	146.6	64.8	162.0	149.7	12.24	13.230		
1,800.0	1,799.5	1,803.4	1,802.8	6.3	6.4	-105.16	141.8	72.3	162.6	150.1	12.49	13.018		
1,900.0	1,898.7	1,904.5	1,903.1	6.6	6.6	-105.03	135.0	82.8	163.3	150.6	12.73	12.826		
2,000.0	1,997.5	2,005.6	2,003.0	6.9	6.9	-104.86	126.4	96.2	164.3	151.4	12.99	12.652		
2,100.0	2,095.6	2,106.7	2,102.2	7.2	7.2	-104.66	115.8	112.6	165.6	152.3	13.25	12.494		
2,188.3	2,181.7	2,195.4	2,188.7	7.4	7.4	-104.60	105.3	129.1	166.9	153.5	13.43	12.430		
2,200.0	2,193.1	2,207.1	2,200.1	7.4	7.4	-104.65	103.8	131.3	167.2	153.7	13.45	12.426		
2,300.0	2,290.2	2,307.1	2,297.5	7.7	7.7	-105.01	91.7	150.1	169.0	155.2	13.81	12.240		
2,400.0	2,387.3	2,407.1	2,395.0	8.0	7.9	-105.37	79.6	168.9	170.9	156.8	14.13	12.096		
2,500.0	2,484.4	2,507.0	2,492.4	8.3	8.3	-105.71	67.5	187.7	172.8	158.3	14.46	11.946		
2,600.0	2,581.6	2,607.0	2,589.9	8.7	8.6	-106.05	55.4	206.6	174.7	159.8	14.81	11.792		
2,700.0	2,678.7	2,707.0	2,687.3	9.0	8.9	-106.39	43.3	225.4	176.6	161.4	15.18	11.635		
2,800.0	2,775.8	2,807.0	2,784.7	9.4	9.3	-106.71	31.2	244.2	178.5	162.9	15.55	11.475		
2,900.0	2,873.0	2,906.9	2,882.2	9.7	9.6	-107.03	19.1	263.0	180.4	164.4	15.94	11.315		
3,000.0	2,970.1	3,006.9	2,979.6	10.1	10.0	-107.35	7.0	281.8	182.3	165.9	16.34	11.155		
3,100.0	3,067.2	3,106.9	3,077.1	10.5	10.4	-107.65	-5.1	300.6	184.2	167.4	16.75	10.995		
3,200.0	3,164.3	3,206.9	3,174.5	10.9	10.8	-107.95	-17.2	319.4	186.1	168.9	17.17	10.836		
3,300.0	3,261.5	3,306.8	3,272.0	11.3	11.2	-108.25	-29.3	338.3	188.0	170.4	17.61	10.678		
3,400.0	3,358.6	3,406.8	3,369.4	11.7	11.6	-108.53	-41.4	357.1	190.0	171.9	18.05	10.523		
3,500.0	3,455.7	3,506.8	3,466.8	12.1	12.0	-108.82	-53.5	375.9	191.9	173.4	18.50	10.370		
3,600.0	3,552.9	3,606.8	3,564.3	12.5	12.4	-109.09	-65.6	394.7	193.8	174.9	18.97	10.220		
3,700.0	3,650.0	3,706.8	3,661.7	12.9	12.8	-109.36	-77.7	413.5	195.8	176.3	19.44	10.073		
3,800.0	3,747.1	3,806.7	3,759.2	13.4	13.3	-109.63	-89.8	432.3	197.7	177.8	19.91	9.929		
3,900.0	3,844.2	3,906.7	3,856.6	13.8	13.7	-109.89	-101.9	451.1	199.7	179.3	20.40	9.788		
4,000.0	3,941.4	4,006.7	3,954.0	14.2	14.1	-110.14	-114.0	470.0	201.6	180.7	20.89	9.650		
4,100.0	4,038.5	4,106.7	4,051.5	14.7	14.6	-110.39	-126.1	488.8	203.6	182.2	21.40	9.516		
4,200.0	4,135.6	4,206.6	4,148.9	15.1	15.0	-110.64	-138.2	507.6	205.6	183.7	21.90	9.385		
4,300.0	4,232.7	4,306.6	4,246.4	15.5	15.4	-110.88	-150.3	526.4	207.5	185.1	22.42	9.257		
4,400.0	4,329.9	4,406.6	4,343.8	16.0	15.9	-111.12	-162.4	545.2	209.5	186.6	22.94	9.133		
4,500.0	4,427.0	4,506.6	4,441.3	16.4	16.3	-111.35	-174.5	564.0	211.5	188.0	23.47	9.012		
4,600.0	4,524.1	4,606.5	4,538.7	16.9	16.8	-111.58	-186.6	582.8	213.4	189.4	24.00	8.894		
4,700.0	4,621.3	4,706.5	4,636.1	17.4	17.2	-111.80	-198.7	601.7	215.4	190.9	24.54	8.779		
4,800.0	4,718.4	4,806.5	4,733.6	17.8	17.7	-112.02	-210.8	620.5	217.4	192.3	25.08	8.668		
4,900.0	4,815.5	4,906.5	4,831.0	18.3	18.1	-112.23	-222.9	639.3	219.4	193.8	25.63	8.560		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,912.6	5,006.5	4,928.5	18.7	18.6	-112.45	-235.0	658.1	221.4	195.2	26.19	8.455		
5,100.0	5,009.8	5,106.4	5,025.9	19.2	19.0	-112.65	-247.1	676.9	223.4	196.6	26.74	8.353		
5,200.0	5,106.9	5,206.4	5,123.3	19.6	19.5	-112.86	-259.2	695.7	225.4	198.1	27.31	8.253		
5,300.0	5,204.0	5,306.3	5,220.8	20.1	19.9	-113.06	-271.3	714.5	227.4	199.5	27.88	8.156		
5,400.0	5,301.2	5,405.0	5,317.1	20.6	20.4	-113.46	-282.8	732.4	229.7	201.2	28.49	8.063		
5,500.0	5,398.3	5,503.5	5,413.7	21.0	20.8	-114.25	-293.3	748.8	232.6	203.4	29.18	7.970		
5,539.5	5,436.7	5,542.4	5,451.9	21.2	21.0	-114.67	-297.2	754.9	233.9	204.5	29.47	7.938		
5,600.0	5,495.5	5,601.9	5,510.5	21.5	21.3	-115.36	-303.0	763.8	236.1	206.1	29.93	7.887		
5,700.0	5,593.0	5,700.0	5,607.2	22.0	21.7	-116.47	-311.7	777.3	239.5	208.8	30.70	7.802		
5,800.0	5,691.0	5,798.4	5,704.6	22.4	22.1	-117.56	-319.5	789.5	243.0	211.5	31.47	7.722		
5,900.0	5,789.3	5,896.6	5,801.8	22.9	22.5	-118.62	-326.4	800.3	246.4	214.2	32.22	7.647		
6,000.0	5,887.8	5,994.6	5,899.2	23.3	22.9	-119.66	-332.5	809.6	249.8	216.8	32.97	7.576		
6,100.0	5,986.7	6,092.5	5,996.7	23.7	23.3	-120.67	-337.6	817.6	253.1	219.4	33.70	7.511		
6,200.0	6,085.8	6,190.4	6,094.3	24.1	23.7	-121.66	-341.8	824.1	256.4	222.0	34.41	7.450		
6,300.0	6,185.1	6,288.2	6,191.8	24.5	24.0	-122.64	-345.1	829.2	259.6	224.5	35.11	7.394		
6,400.0	6,284.6	6,385.8	6,289.4	24.9	24.3	-123.59	-347.4	832.9	262.8	227.0	35.79	7.343		
6,500.0	6,384.3	6,483.4	6,387.0	25.3	24.6	-124.52	-348.9	835.3	265.9	229.5	36.44	7.299		
6,600.0	6,484.1	6,580.9	6,484.5	25.7	24.8	-125.44	-349.5	836.2	269.0	232.0	37.02	7.267		
6,700.0	6,584.0	6,680.5	6,584.0	26.0	24.9	-126.25	-349.5	836.2	271.7	234.1	37.61	7.225		
6,800.0	6,683.9	6,780.4	6,683.9	26.3	24.9	-126.76	-349.5	836.2	273.5	235.4	38.03	7.191		
6,900.0	6,783.9	6,880.4	6,783.9	26.5	24.9	-126.95	-349.5	836.2	274.2	235.9	38.29	7.161		
6,916.1	6,800.0	6,896.5	6,800.0	26.5	24.9	-0.28	-349.5	836.2	274.2	235.9	38.30	7.158		
7,000.0	6,883.9	6,980.4	6,883.9	26.6	25.0	-0.28	-349.5	836.2	274.2	235.8	38.37	7.146		
7,100.0	6,983.9	7,080.4	6,983.9	26.6	25.0	-0.28	-349.5	836.2	274.2	235.7	38.44	7.132		
7,200.0	7,083.9	7,180.4	7,083.9	26.6	25.0	-0.28	-349.5	836.2	274.2	235.6	38.52	7.118		
7,300.0	7,183.9	7,280.4	7,183.9	26.6	25.0	-0.28	-349.5	836.2	274.2	235.6	38.60	7.103		
7,400.0	7,283.9	7,380.4	7,283.9	26.6	25.1	-0.28	-349.5	836.2	274.2	235.5	38.68	7.089		
7,500.0	7,383.9	7,480.4	7,383.9	26.7	25.1	-0.28	-349.5	836.2	274.2	235.4	38.75	7.075		
7,600.0	7,483.9	7,580.4	7,483.9	26.7	25.1	-0.28	-349.5	836.2	274.2	235.3	38.83	7.060		
7,700.0	7,583.9	7,680.4	7,583.9	26.7	25.2	-0.28	-349.5	836.2	274.2	235.3	38.91	7.046		
7,800.0	7,683.9	7,780.4	7,683.9	26.7	25.2	-0.28	-349.5	836.2	274.2	235.2	38.99	7.031		
7,900.0	7,783.9	7,880.4	7,783.9	26.8	25.2	-0.28	-349.5	836.2	274.2	235.1	39.07	7.017		
8,000.0	7,883.9	7,980.4	7,883.9	26.8	25.2	-0.28	-349.5	836.2	274.2	235.0	39.15	7.002		
8,100.0	7,983.9	8,080.4	7,983.9	26.8	25.3	-0.28	-349.5	836.2	274.2	234.9	39.24	6.988		
8,200.0	8,083.9	8,180.4	8,083.9	26.9	25.3	-0.28	-349.5	836.2	274.2	234.8	39.32	6.973		
8,300.0	8,183.9	8,280.4	8,183.9	26.9	25.3	-0.28	-349.5	836.2	274.2	234.8	39.40	6.958		
8,400.0	8,283.9	8,380.4	8,283.9	26.9	25.4	-0.28	-349.5	836.2	274.2	234.7	39.48	6.944		
8,500.0	8,383.9	8,480.4	8,383.9	26.9	25.4	-0.28	-349.5	836.2	274.2	234.6	39.57	6.929		
8,600.0	8,483.9	8,580.4	8,483.9	27.0	25.4	-0.28	-349.5	836.2	274.2	234.5	39.65	6.914		
8,700.0	8,583.9	8,680.4	8,583.9	27.0	25.5	-0.28	-349.5	836.2	274.2	234.4	39.74	6.900		
8,800.0	8,683.9	8,780.4	8,683.9	27.0	25.5	-0.28	-349.5	836.2	274.2	234.3	39.82	6.885		
8,900.0	8,783.9	8,880.4	8,783.9	27.0	25.5	-0.28	-349.5	836.2	274.2	234.3	39.91	6.870		
9,000.0	8,883.9	8,980.4	8,883.9	27.1	25.6	-0.28	-349.5	836.2	274.2	234.2	39.99	6.855		
9,100.0	8,983.9	9,080.4	8,983.9	27.1	25.6	-0.28	-349.5	836.2	274.2	234.1	40.08	6.840		
9,200.0	9,083.9	9,180.4	9,083.9	27.1	25.6	-0.28	-349.5	836.2	274.2	234.0	40.17	6.826		
9,300.0	9,183.9	9,280.4	9,183.9	27.2	25.7	-0.28	-349.5	836.2	274.2	233.9	40.25	6.811		
9,400.0	9,283.9	9,380.4	9,283.9	27.2	25.7	-0.28	-349.5	836.2	274.2	233.8	40.34	6.796		
9,500.0	9,383.9	9,480.4	9,383.9	27.2	25.7	-0.28	-349.5	836.2	274.2	233.7	40.43	6.781		
9,600.0	9,483.9	9,580.4	9,483.9	27.2	25.8	-0.28	-349.5	836.2	274.2	233.6	40.52	6.766		
9,700.0	9,583.9	9,680.4	9,583.9	27.3	25.8	-0.28	-349.5	836.2	274.2	233.6	40.61	6.751		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,683.9	9,780.4	9,683.9	27.3	25.8	-0.28	-349.5	836.2	274.2	233.5	40.70	6.737	
9,900.0	9,783.9	9,880.4	9,783.9	27.3	25.8	-0.28	-349.5	836.2	274.2	233.4	40.78	6.722 SF	
10,000.0	9,883.9	9,950.0	9,853.4	27.4	25.8	-0.29	-345.6	836.2	279.7	239.6	40.17	6.964	
10,100.0	9,983.9	10,008.0	9,910.3	27.4	25.7	-0.30	-334.8	836.1	298.2	258.8	39.35	7.577	
10,118.1	10,002.0	10,018.8	9,920.7	27.4	25.6	-0.30	-332.0	836.0	302.8	263.6	39.22	7.722	
10,150.0	10,033.9	10,037.2	9,938.4	27.4	25.6	-179.92	-326.7	836.0	312.8	273.8	39.04	8.014	
10,200.0	10,083.7	10,064.2	9,963.8	27.6	25.5	-179.93	-317.7	835.9	334.0	295.2	38.88	8.591	
10,250.0	10,132.8	10,088.4	9,986.2	27.7	25.5	-179.93	-308.5	835.8	361.4	322.6	38.80	9.315	
10,300.0	10,180.9	10,109.5	10,005.3	27.8	25.4	-179.93	-299.5	835.7	394.1	355.4	38.76	10.167	
10,350.0	10,227.7	10,125.0	10,019.0	28.0	25.4	-179.93	-292.4	835.7	431.4	392.7	38.76	11.132	
10,400.0	10,272.7	10,142.0	10,033.9	28.2	25.4	-179.93	-284.0	835.6	472.5	433.6	38.82	12.172	
10,450.0	10,315.7	10,150.0	10,040.7	28.3	25.4	-179.93	-279.9	835.6	516.5	477.7	38.86	13.292	
10,500.0	10,356.3	10,162.4	10,051.3	28.5	25.3	-179.92	-273.3	835.5	562.8	523.9	38.96	14.447	
10,550.0	10,394.2	10,175.0	10,061.7	28.7	25.3	-179.90	-266.4	835.4	610.9	571.9	39.07	15.635	
10,600.0	10,429.1	10,175.0	10,061.7	28.8	25.3	-179.85	-266.4	835.4	660.0	620.9	39.15	16.859	
10,650.0	10,460.7	10,175.0	10,061.7	29.0	25.3	-179.56	-266.4	835.4	709.8	670.5	39.23	18.091	
10,700.0	10,488.9	10,175.0	10,061.7	29.1	25.3	-0.44	-266.4	835.4	759.8	720.4	39.32	19.322	
10,750.0	10,513.4	10,175.0	10,061.7	29.2	25.3	-0.14	-266.4	835.4	809.6	770.2	39.41	20.542	
10,800.0	10,534.0	10,175.0	10,061.7	29.4	25.3	-0.08	-266.4	835.4	858.9	819.4	39.50	21.745	
10,850.0	10,550.5	10,165.5	10,053.8	29.5	25.3	-0.06	-271.7	835.5	907.3	867.8	39.56	22.938	
10,900.0	10,562.8	10,160.1	10,049.3	29.5	25.3	-0.05	-274.6	835.5	954.7	915.1	39.62	24.095	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-0.46	150.0	-1.2	150.0	143.6	6.43	23.333		
100.0	100.0	100.0	100.0	3.2	3.2	-0.46	150.0	-1.2	150.0	143.1	6.89	21.764		
200.0	200.0	200.0	200.0	3.5	3.5	-0.46	150.0	-1.2	150.0	142.7	7.33	20.470		
300.0	300.0	300.0	300.0	3.7	3.7	-0.46	150.0	-1.2	150.0	142.3	7.74	19.378		
400.0	400.0	400.0	400.0	3.9	3.9	-0.46	150.0	-1.2	150.0	141.9	8.14	18.439		
500.0	500.0	500.0	500.0	4.1	4.1	-0.46	150.0	-1.2	150.0	141.5	8.51	17.620		
600.0	600.0	600.0	600.0	4.2	4.2	-0.46	150.0	-1.2	150.0	141.1	8.88	16.897		
700.0	700.0	700.0	700.0	4.4	4.4	-0.46	150.0	-1.2	150.0	140.8	9.23	16.253		
800.0	800.0	800.0	800.0	4.6	4.6	-0.46	150.0	-1.2	150.0	140.4	9.57	15.674		
900.0	900.0	900.0	900.0	4.8	4.8	-0.46	150.0	-1.2	150.0	140.1	9.90	15.149		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-0.46	150.0	-1.2	150.0	139.8	10.22	14.671		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-0.46	150.0	-1.2	150.0	139.5	10.54	14.233		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-0.46	150.0	-1.2	150.0	139.2	10.85	13.829		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	-0.46	150.0	-1.2	150.0	138.9	11.15	13.455		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	-0.46	150.0	-1.2	150.0	138.6	11.44	13.107		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	-0.46	150.0	-1.2	150.0	138.3	11.73	12.784		
1,600.0	1,600.0	1,604.1	1,604.1	5.9	5.9	-128.16	148.5	-2.4	149.7	137.6	12.08	12.396		
1,700.0	1,699.8	1,707.8	1,707.6	6.1	6.1	-131.23	144.2	-6.0	149.0	136.6	12.39	12.027		
1,771.3	1,770.9	1,781.2	1,780.8	6.3	6.3	-134.66	139.4	-10.0	148.8	136.1	12.63	11.783 CC		
1,800.0	1,799.5	1,810.6	1,810.0	6.3	6.4	-136.32	137.0	-11.9	148.8	136.1	12.72	11.699 ES		
1,900.0	1,898.7	1,912.3	1,910.8	6.6	6.6	-143.23	127.2	-20.1	150.5	137.4	13.08	11.505 SF		
2,000.0	1,997.5	2,012.3	2,009.6	6.9	6.9	-151.54	114.8	-30.3	155.6	142.2	13.46	11.559		
2,100.0	2,095.6	2,110.1	2,105.5	7.2	7.2	-160.47	100.2	-42.4	166.1	152.2	13.88	11.966		
2,188.3	2,181.7	2,194.1	2,187.7	7.4	7.4	-167.71	86.9	-53.4	181.1	166.8	14.33	12.635		
2,200.0	2,193.1	2,205.2	2,198.6	7.4	7.5	-168.60	85.1	-54.9	183.5	169.1	14.38	12.761		
2,300.0	2,290.2	2,300.0	2,291.4	7.7	7.7	-175.39	70.1	-67.3	205.3	190.5	14.82	13.851		
2,400.0	2,387.3	2,394.8	2,384.2	8.0	8.0	179.12	55.1	-79.7	229.5	214.3	15.24	15.058		
2,500.0	2,484.4	2,489.6	2,476.9	8.3	8.3	174.67	40.1	-92.1	255.4	239.7	15.68	16.286		
2,600.0	2,581.6	2,584.4	2,569.7	8.7	8.6	171.03	25.1	-104.5	282.5	266.3	16.14	17.499		
2,700.0	2,678.7	2,679.2	2,662.5	9.0	8.9	168.02	10.0	-116.9	310.5	293.8	16.62	18.677		
2,800.0	2,775.8	2,774.1	2,755.3	9.4	9.2	165.51	-5.0	-129.3	339.1	322.0	17.12	19.806		
2,900.0	2,873.0	2,868.9	2,848.1	9.7	9.5	163.38	-20.0	-141.7	368.3	350.6	17.64	20.880		
3,000.0	2,970.1	2,963.7	2,940.9	10.1	9.9	161.56	-35.0	-154.2	397.9	379.7	18.17	21.895		
3,100.0	3,067.2	3,058.5	3,033.7	10.5	10.2	159.99	-50.0	-166.6	427.8	409.0	18.72	22.852		
3,200.0	3,164.3	3,153.3	3,126.4	10.9	10.6	158.63	-65.0	-179.0	457.9	438.6	19.28	23.752		
3,300.0	3,261.5	3,248.1	3,219.2	11.3	10.9	157.43	-80.0	-191.4	488.3	468.4	19.85	24.596		
3,400.0	3,358.6	3,342.9	3,312.0	11.7	11.3	156.37	-95.0	-203.8	518.8	498.4	20.44	25.387		
3,500.0	3,455.7	3,437.7	3,404.8	12.1	11.7	155.43	-110.1	-216.2	549.5	528.5	21.03	26.128		
3,600.0	3,552.9	3,532.5	3,497.6	12.5	12.0	154.59	-125.1	-228.6	580.3	558.7	21.63	26.823		
3,700.0	3,650.0	3,627.3	3,590.4	12.9	12.4	153.83	-140.1	-241.0	611.2	588.9	22.25	27.473		
3,800.0	3,747.1	3,722.1	3,683.2	13.4	12.8	153.15	-155.1	-253.4	642.2	619.3	22.87	28.084		
3,900.0	3,844.2	3,816.9	3,775.9	13.8	13.2	152.52	-170.1	-265.9	673.3	649.8	23.49	28.656		
4,000.0	3,941.4	3,911.7	3,868.7	14.2	13.6	151.96	-185.1	-278.3	704.4	680.3	24.13	29.193		
4,100.0	4,038.5	4,006.6	3,961.5	14.7	14.0	151.44	-200.1	-290.7	735.6	710.8	24.77	29.698		
4,200.0	4,135.6	4,101.4	4,054.3	15.1	14.4	150.96	-215.1	-303.1	766.8	741.4	25.41	30.172		
4,300.0	4,232.7	4,196.2	4,147.1	15.5	14.8	150.52	-230.2	-315.5	798.1	772.0	26.07	30.619		
4,400.0	4,329.9	4,291.0	4,239.9	16.0	15.2	150.11	-245.2	-327.9	829.4	802.7	26.72	31.040		
4,500.0	4,427.0	4,385.8	4,332.6	16.4	15.6	149.73	-260.2	-340.3	860.8	833.4	27.38	31.436		
4,600.0	4,524.1	4,480.6	4,425.4	16.9	16.0	149.38	-275.2	-352.7	892.2	864.1	28.05	31.811		
4,700.0	4,621.3	4,575.4	4,518.2	17.4	16.5	149.06	-290.2	-365.1	923.6	894.9	28.72	32.164		
4,800.0	4,718.4	4,670.2	4,611.0	17.8	16.9	148.75	-305.2	-377.6	955.0	925.7	29.39	32.499		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #701H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside							
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
							(usft)	(usft)	(usft)	(usft)	(usft)		
4,900.0	4,815.5	4,765.0	4,703.8	18.3	17.3	148.46	-320.2	-390.0	986.5	956.4	30.06	32.815	

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #702H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	10.85	150.2	28.8	153.0	146.5	6.43	23.794			
100.0	100.0	100.0	100.0	3.2	3.2	10.85	150.2	28.8	153.0	146.1	6.89	22.194			
200.0	200.0	200.0	200.0	3.5	3.5	10.85	150.2	28.8	153.0	145.6	7.33	20.874			
300.0	300.0	300.0	300.0	3.7	3.7	10.85	150.2	28.8	153.0	145.2	7.74	19.760			
400.0	400.0	400.0	400.0	3.9	3.9	10.85	150.2	28.8	153.0	144.8	8.14	18.802			
500.0	500.0	500.0	500.0	4.1	4.1	10.85	150.2	28.8	153.0	144.5	8.51	17.967			
600.0	600.0	600.0	600.0	4.2	4.2	10.85	150.2	28.8	153.0	144.1	8.88	17.231			
700.0	700.0	700.0	700.0	4.4	4.4	10.85	150.2	28.8	153.0	143.7	9.23	16.574			
800.0	800.0	800.0	800.0	4.6	4.6	10.85	150.2	28.8	153.0	143.4	9.57	15.983			
900.0	900.0	900.0	900.0	4.8	4.8	10.85	150.2	28.8	153.0	143.1	9.90	15.448			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	10.85	150.2	28.8	153.0	142.7	10.22	14.961			
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	10.85	150.2	28.8	153.0	142.4	10.54	14.513			
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	10.85	150.2	28.8	153.0	142.1	10.85	14.102			
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	10.85	150.2	28.8	153.0	141.8	11.15	13.720			
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	10.85	150.2	28.8	153.0	141.5	11.44	13.366			
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	10.85	150.2	28.8	153.0	141.2	11.73	13.036 CC			
1,600.0	1,600.0	1,602.3	1,602.2	5.9	5.9	-115.80	149.2	30.3	153.0	141.0	12.03	12.722			
1,700.0	1,699.8	1,704.5	1,704.4	6.1	6.1	-115.74	146.0	34.7	153.0	140.8	12.29	12.453			
1,800.0	1,799.5	1,806.8	1,806.2	6.3	6.4	-115.64	140.7	42.2	153.1	140.6	12.56	12.193			
1,900.0	1,898.7	1,909.0	1,907.7	6.6	6.6	-115.50	133.3	52.6	153.3	140.4	12.84	11.940			
2,000.0	1,997.5	2,011.3	2,008.6	6.9	6.9	-115.32	123.9	65.9	153.4	140.3	13.13	11.690			
2,100.0	2,095.6	2,113.5	2,108.8	7.2	7.2	-115.09	112.3	82.1	153.6	140.2	13.43	11.439			
2,188.3	2,181.7	2,203.7	2,196.7	7.4	7.5	-114.87	100.4	98.9	153.9	140.2	13.71	11.224			
2,200.0	2,193.1	2,215.5	2,208.1	7.4	7.5	-114.83	98.7	101.2	153.9	140.2	13.74	11.204			
2,300.0	2,290.2	2,315.5	2,305.1	7.7	7.8	-114.53	84.6	121.1	154.1	140.0	14.11	10.924			
2,400.0	2,387.3	2,415.5	2,402.0	8.0	8.1	-114.24	70.5	141.0	154.3	139.9	14.45	10.679			
2,500.0	2,484.4	2,515.5	2,499.0	8.3	8.4	-113.94	56.3	160.9	154.6	139.8	14.81	10.435			
2,600.0	2,581.6	2,615.5	2,596.0	8.7	8.7	-113.65	42.2	180.8	154.8	139.6	15.19	10.194			
2,700.0	2,678.7	2,715.5	2,693.0	9.0	9.1	-113.35	28.0	200.7	155.1	139.5	15.57	9.957			
2,800.0	2,775.8	2,815.5	2,789.9	9.4	9.4	-113.06	13.9	220.6	155.3	139.3	15.97	9.725			
2,900.0	2,873.0	2,915.5	2,886.9	9.7	9.8	-112.77	-0.3	240.5	155.6	139.2	16.38	9.499			
3,000.0	2,970.1	3,015.5	2,983.9	10.1	10.2	-112.48	-14.4	260.4	155.8	139.0	16.79	9.280			
3,100.0	3,067.2	3,115.5	3,080.8	10.5	10.6	-112.19	-28.5	280.3	156.1	138.9	17.21	9.067			
3,200.0	3,164.3	3,215.5	3,177.8	10.9	11.0	-111.90	-42.7	300.2	156.3	138.7	17.64	8.862			
3,300.0	3,261.5	3,315.5	3,274.8	11.3	11.4	-111.61	-56.8	320.1	156.6	138.5	18.08	8.664			
3,400.0	3,358.6	3,415.5	3,371.8	11.7	11.8	-111.32	-71.0	340.0	156.9	138.4	18.52	8.473			
3,500.0	3,455.7	3,515.5	3,468.7	12.1	12.2	-111.04	-85.1	359.9	157.2	138.2	18.96	8.289			
3,600.0	3,552.9	3,615.5	3,565.7	12.5	12.6	-110.75	-99.3	379.8	157.4	138.0	19.41	8.113			
3,700.0	3,650.0	3,715.5	3,662.7	12.9	13.0	-110.47	-113.4	399.7	157.7	137.9	19.86	7.943			
3,800.0	3,747.1	3,815.5	3,759.6	13.4	13.5	-110.19	-127.6	419.6	158.0	137.7	20.31	7.779			
3,900.0	3,844.2	3,915.5	3,856.6	13.8	13.9	-109.90	-141.7	439.5	158.3	137.5	20.77	7.623			
4,000.0	3,941.4	4,015.5	3,953.6	14.2	14.3	-109.62	-155.8	459.4	158.6	137.4	21.23	7.472			
4,100.0	4,038.5	4,115.4	4,050.5	14.7	14.8	-109.34	-170.0	479.3	158.9	137.2	21.69	7.327			
4,200.0	4,135.6	4,215.4	4,147.5	15.1	15.2	-109.06	-184.1	499.2	159.2	137.1	22.15	7.188			
4,300.0	4,232.7	4,315.4	4,244.5	15.5	15.7	-108.79	-198.3	519.1	159.5	136.9	22.61	7.055			
4,400.0	4,329.9	4,415.4	4,341.5	16.0	16.1	-108.51	-212.4	539.0	159.8	136.7	23.07	6.926			
4,500.0	4,427.0	4,515.4	4,438.4	16.4	16.6	-108.23	-226.6	558.9	160.1	136.6	23.54	6.803			
4,600.0	4,524.1	4,615.4	4,535.4	16.9	17.0	-107.96	-240.7	578.8	160.4	136.4	24.00	6.684			
4,700.0	4,621.3	4,715.4	4,632.4	17.4	17.5	-107.69	-254.8	598.7	160.8	136.3	24.47	6.570			
4,800.0	4,718.4	4,815.4	4,729.3	17.8	17.9	-107.41	-269.0	618.6	161.1	136.2	24.94	6.460			
4,900.0	4,815.5	4,915.4	4,826.3	18.3	18.4	-107.14	-283.1	638.5	161.4	136.0	25.40	6.354			

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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)	No-Go Distance (usft)	Separation Factor		
5,000.0	4,912.6	5,015.4	4,923.3	18.7	18.9	-106.87	-297.3	658.4	161.8	135.9	25.87	6.253		
5,100.0	5,009.8	5,115.4	5,020.3	19.2	19.3	-106.60	-311.4	678.3	162.1	135.8	26.34	6.154		
5,200.0	5,106.9	5,215.3	5,117.1	19.6	19.8	-106.34	-325.5	698.1	162.4	135.6	26.85	6.049		
5,300.0	5,204.0	5,314.5	5,213.6	20.1	20.5	-106.47	-338.9	717.0	163.1	135.4	27.65	5.897 ES		
5,400.0	5,301.2	5,413.8	5,310.5	20.6	20.9	-107.17	-351.3	734.4	164.2	135.9	28.26	5.809		
5,500.0	5,398.3	5,512.9	5,407.6	21.0	21.4	-108.43	-362.8	750.5	165.8	136.8	28.98	5.722		
5,539.5	5,436.7	5,552.0	5,446.1	21.2	21.5	-109.07	-367.0	756.5	166.6	137.4	29.28	5.691		
5,600.0	5,495.5	5,611.8	5,504.9	21.5	21.8	-110.12	-373.2	765.2	168.0	138.2	29.77	5.642		
5,700.0	5,593.0	5,710.7	5,602.4	22.0	22.2	-111.82	-382.7	778.5	170.3	139.7	30.62	5.562		
5,800.0	5,691.0	5,809.5	5,700.1	22.4	22.6	-113.47	-391.2	790.5	172.7	141.3	31.47	5.489		
5,900.0	5,789.3	5,908.1	5,797.9	22.9	23.0	-115.08	-398.7	801.0	175.2	142.9	32.32	5.422		
6,000.0	5,887.8	6,006.7	5,895.9	23.3	23.4	-116.63	-405.2	810.2	177.8	144.7	33.18	5.361		
6,100.0	5,986.7	6,105.2	5,993.9	23.7	23.8	-118.14	-410.7	817.9	180.5	146.5	34.02	5.306		
6,200.0	6,085.8	6,203.6	6,092.0	24.1	24.2	-119.60	-415.2	824.3	183.3	148.4	34.86	5.257		
6,300.0	6,185.1	6,301.9	6,190.1	24.5	24.5	-121.01	-418.8	829.4	186.1	150.4	35.69	5.215		
6,400.0	6,284.6	6,400.0	6,288.1	24.9	24.8	-122.38	-421.4	833.0	189.0	152.5	36.48	5.180		
6,500.0	6,384.3	6,498.3	6,386.3	25.3	25.1	-123.70	-423.0	835.3	191.9	154.7	37.26	5.151		
6,600.0	6,484.1	6,596.4	6,484.4	25.7	25.3	-124.99	-423.7	836.2	194.9	156.9	37.98	5.132		
6,700.0	6,584.0	6,696.0	6,584.0	26.0	25.4	-126.10	-423.7	836.2	197.6	159.0	38.61	5.118		
6,800.0	6,683.9	6,795.9	6,683.9	26.3	25.4	-126.79	-423.7	836.2	199.3	160.3	39.07	5.102		
6,900.0	6,783.9	6,895.9	6,783.9	26.5	25.4	-127.06	-423.7	836.2	200.0	160.7	39.35	5.084		
6,916.1	6,800.0	6,912.0	6,800.0	26.5	25.4	-0.39	-423.7	836.2	200.0	160.7	39.36	5.082		
7,000.0	6,883.9	6,995.9	6,883.9	26.6	25.5	-0.39	-423.7	836.2	200.0	160.6	39.43	5.074		
7,100.0	6,983.9	7,095.9	6,983.9	26.6	25.5	-0.39	-423.7	836.2	200.0	160.5	39.50	5.064		
7,200.0	7,083.9	7,195.9	7,083.9	26.6	25.5	-0.39	-423.7	836.2	200.0	160.5	39.57	5.055		
7,300.0	7,183.9	7,295.9	7,183.9	26.6	25.5	-0.39	-423.7	836.2	200.0	160.4	39.65	5.045		
7,400.0	7,283.9	7,395.9	7,283.9	26.6	25.6	-0.39	-423.7	836.2	200.0	160.3	39.72	5.036		
7,500.0	7,383.9	7,495.9	7,383.9	26.7	25.6	-0.39	-423.7	836.2	200.0	160.2	39.80	5.026		
7,600.0	7,483.9	7,595.9	7,483.9	26.7	25.6	-0.39	-423.7	836.2	200.0	160.2	39.88	5.017		
7,700.0	7,583.9	7,695.9	7,583.9	26.7	25.6	-0.39	-423.7	836.2	200.0	160.1	39.95	5.007		
7,800.0	7,683.9	7,795.9	7,683.9	26.7	25.7	-0.39	-423.7	836.2	200.0	160.0	40.03	4.997		
7,900.0	7,783.9	7,895.9	7,783.9	26.8	25.7	-0.39	-423.7	836.2	200.0	159.9	40.11	4.988		
8,000.0	7,883.9	7,995.9	7,883.9	26.8	25.7	-0.39	-423.7	836.2	200.0	159.9	40.19	4.978		
8,100.0	7,983.9	8,095.9	7,983.9	26.8	25.8	-0.39	-423.7	836.2	200.0	159.8	40.26	4.968		
8,200.0	8,083.9	8,195.9	8,083.9	26.9	25.8	-0.39	-423.7	836.2	200.0	159.7	40.34	4.958		
8,300.0	8,183.9	8,295.9	8,183.9	26.9	25.8	-0.39	-423.7	836.2	200.0	159.6	40.42	4.949		
8,400.0	8,283.9	8,395.9	8,283.9	26.9	25.9	-0.39	-423.7	836.2	200.0	159.5	40.50	4.939		
8,500.0	8,383.9	8,495.9	8,383.9	26.9	25.9	-0.39	-423.7	836.2	200.0	159.5	40.58	4.929		
8,600.0	8,483.9	8,595.9	8,483.9	27.0	25.9	-0.39	-423.7	836.2	200.0	159.4	40.67	4.919		
8,700.0	8,583.9	8,695.9	8,583.9	27.0	25.9	-0.39	-423.7	836.2	200.0	159.3	40.75	4.909		
8,800.0	8,683.9	8,795.9	8,683.9	27.0	26.0	-0.39	-423.7	836.2	200.0	159.2	40.83	4.899		
8,900.0	8,783.9	8,895.9	8,783.9	27.0	26.0	-0.39	-423.7	836.2	200.0	159.1	40.91	4.889		
9,000.0	8,883.9	8,995.9	8,883.9	27.1	26.0	-0.39	-423.7	836.2	200.0	159.0	41.00	4.879		
9,100.0	8,983.9	9,095.9	8,983.9	27.1	26.1	-0.39	-423.7	836.2	200.0	159.0	41.08	4.870		
9,200.0	9,083.9	9,195.9	9,083.9	27.1	26.1	-0.39	-423.7	836.2	200.0	158.9	41.16	4.860		
9,300.0	9,183.9	9,295.9	9,183.9	27.2	26.1	-0.39	-423.7	836.2	200.0	158.8	41.25	4.850		
9,400.0	9,283.9	9,395.9	9,283.9	27.2	26.2	-0.39	-423.7	836.2	200.0	158.7	41.33	4.840		
9,500.0	9,383.9	9,495.9	9,383.9	27.2	26.2	-0.39	-423.7	836.2	200.0	158.6	41.42	4.830		
9,600.0	9,483.9	9,595.9	9,483.9	27.2	26.2	-0.39	-423.7	836.2	200.0	158.5	41.50	4.820		
9,700.0	9,583.9	9,695.9	9,583.9	27.3	26.3	-0.39	-423.7	836.2	200.0	158.4	41.59	4.810		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - *TARHEEL FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor
9,800.0	9,683.9	9,795.9	9,683.9	27.3	26.3	-0.39	-423.7	836.2	200.0	158.4		41.68	4.800
9,900.0	9,783.9	9,895.9	9,783.9	27.3	26.3	-0.39	-423.7	836.2	200.0	158.3		41.76	4.790
10,000.0	9,883.9	9,995.9	9,883.9	27.4	26.4	-0.39	-423.7	836.2	200.0	158.2		41.85	4.780
10,100.0	9,983.9	10,095.9	9,983.9	27.4	26.4	-0.39	-423.7	836.2	200.0	158.1		41.94	4.770
10,118.1	10,002.0	10,114.0	10,002.0	27.4	26.4	-0.39	-423.7	836.2	200.0	158.1		41.95	4.768 SF
10,150.0	10,033.9	10,145.9	10,033.9	27.4	26.4	179.99	-423.7	836.2	200.9	158.9		42.01	4.782
10,200.0	10,083.7	10,195.6	10,083.7	27.6	26.4	179.99	-423.7	836.2	205.9	163.7		42.22	4.876
10,250.0	10,132.8	10,244.7	10,132.8	27.7	26.4	179.99	-423.7	836.2	215.2	172.7		42.45	5.068
10,300.0	10,180.9	10,292.9	10,180.9	27.8	26.5	179.99	-423.7	836.2	228.7	186.0		42.70	5.356
10,350.0	10,227.7	10,339.6	10,227.7	28.0	26.5	179.99	-423.7	836.2	246.3	203.4		42.95	5.735
10,400.0	10,272.7	10,384.7	10,272.7	28.2	26.5	179.99	-423.7	836.2	268.0	224.8		43.21	6.203
10,450.0	10,315.7	10,427.6	10,315.7	28.3	26.5	179.99	-423.7	836.2	293.5	250.1		43.47	6.753
10,500.0	10,356.3	10,468.2	10,356.3	28.5	26.5	179.99	-423.7	836.2	322.7	279.0		43.72	7.381
10,550.0	10,394.2	10,506.1	10,394.2	28.7	26.5	179.99	-423.7	836.2	355.3	311.3		43.96	8.082
10,600.0	10,429.1	10,541.0	10,429.1	28.8	26.5	179.99	-423.7	836.2	391.1	346.9		44.19	8.850
10,650.0	10,460.7	10,572.7	10,460.7	29.0	26.5	179.99	-423.7	836.2	429.7	385.3		44.40	9.679
10,700.0	10,488.9	10,600.9	10,488.9	29.1	26.6	179.99	-423.7	836.2	471.0	426.4		44.59	10.563
10,750.0	10,513.4	10,625.4	10,513.4	29.2	26.6	179.99	-423.7	836.2	514.6	469.8		44.76	11.496
10,800.0	10,534.0	10,645.9	10,534.0	29.4	26.6	179.99	-423.7	836.2	560.2	515.2		44.91	12.472
10,850.0	10,550.5	10,662.5	10,550.5	29.5	26.6	179.99	-423.7	836.2	607.3	562.3		45.03	13.486
10,900.0	10,562.8	10,674.8	10,562.8	29.5	26.6	179.99	-423.7	836.2	655.8	610.6		45.13	14.531
10,950.0	10,570.9	10,682.9	10,570.9	29.6	26.6	179.98	-423.7	836.2	705.1	659.9		45.19	15.602
11,000.0	10,574.7	10,686.6	10,574.7	29.7	26.6	179.92	-423.7	836.2	754.9	709.7		45.23	16.691
11,018.1	10,575.0	10,686.9	10,575.0	29.7	26.6	93.61	-423.7	836.2	773.0	727.8		45.24	17.088
11,100.0	10,575.0	10,686.9	10,575.0	29.8	26.6	93.99	-423.7	836.2	854.9	809.7		45.25	18.892
11,200.0	10,575.0	10,686.9	10,575.0	29.9	26.6	94.46	-423.7	836.2	954.9	909.7		45.28	21.090

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.09	0.0	-30.0	30.0	23.5	6.43	4.659	
100.0	100.0	100.0	100.0	3.2	3.2	-90.09	0.0	-30.0	30.0	23.1	6.89	4.346	
200.0	200.0	200.0	200.0	3.5	3.5	-90.09	0.0	-30.0	30.0	22.6	7.33	4.088	
300.0	300.0	300.0	300.0	3.7	3.7	-90.09	0.0	-30.0	30.0	22.2	7.74	3.869	
400.0	400.0	400.0	400.0	3.9	3.9	-90.09	0.0	-30.0	30.0	21.8	8.14	3.682	
500.0	500.0	500.0	500.0	4.1	4.1	-90.09	0.0	-30.0	30.0	21.4	8.51	3.518	
600.0	600.0	600.0	600.0	4.2	4.2	-90.09	0.0	-30.0	30.0	21.1	8.88	3.374	
700.0	700.0	700.0	700.0	4.4	4.4	-90.09	0.0	-30.0	30.0	20.7	9.23	3.246	
800.0	800.0	800.0	800.0	4.6	4.6	-90.09	0.0	-30.0	30.0	20.4	9.57	3.130	
900.0	900.0	900.0	900.0	4.8	4.8	-90.09	0.0	-30.0	30.0	20.1	9.90	3.025	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.09	0.0	-30.0	30.0	19.7	10.22	2.930 Normal Operations	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-90.09	0.0	-30.0	30.0	19.4	10.54	2.842 Normal Operations	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-90.09	0.0	-30.0	30.0	19.1	10.85	2.761 Normal Operations	
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	-90.09	0.0	-30.0	30.0	18.8	11.15	2.687 Normal Operations	
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	-90.09	0.0	-30.0	30.0	18.5	11.44	2.617 Normal Operations	
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	-90.09	0.0	-30.0	30.0	18.2	11.73	2.553 Normal Operations, CC, ES, SF	
1,600.0	1,600.0	1,599.3	1,599.3	5.9	5.9	142.56	-1.4	-31.0	32.4	20.3	12.07	2.681 Normal Operations	
1,700.0	1,699.8	1,698.3	1,698.2	6.1	6.1	141.03	-5.6	-33.9	39.6	27.2	12.38	3.199	
1,800.0	1,799.5	1,796.6	1,796.1	6.3	6.3	139.40	-12.5	-38.9	51.7	39.0	12.70	4.068	
1,900.0	1,898.7	1,893.9	1,892.6	6.6	6.6	138.03	-22.0	-45.7	68.5	55.5	13.03	5.256	
2,000.0	1,997.5	1,989.8	1,987.4	6.9	6.8	136.96	-34.0	-54.2	90.1	76.7	13.38	6.729	
2,100.0	2,095.6	2,085.7	2,081.7	7.2	7.0	136.36	-48.1	-64.2	115.8	102.1	13.71	8.447	
2,188.3	2,181.7	2,170.4	2,165.0	7.4	7.2	136.66	-60.6	-73.2	140.6	126.6	14.03	10.023	
2,200.0	2,193.1	2,181.6	2,176.0	7.4	7.2	136.78	-62.2	-74.4	144.1	130.0	14.07	10.241	
2,300.0	2,290.2	2,277.2	2,270.0	7.7	7.5	137.62	-76.4	-84.5	173.3	158.8	14.50	11.955	
2,400.0	2,387.3	2,372.8	2,364.0	8.0	7.7	138.22	-90.5	-94.6	202.6	187.7	14.91	13.591	
2,500.0	2,484.4	2,468.4	2,458.0	8.3	8.0	138.66	-104.7	-104.7	231.9	216.6	15.34	15.118	
2,600.0	2,581.6	2,564.0	2,552.0	8.7	8.3	139.01	-118.8	-114.8	261.2	245.4	15.79	16.541	
2,700.0	2,678.7	2,659.5	2,646.0	9.0	8.6	139.28	-133.0	-124.9	290.6	274.3	16.27	17.863	
2,800.0	2,775.8	2,755.1	2,740.0	9.4	8.9	139.51	-147.1	-134.9	319.9	303.1	16.76	19.091	
2,900.0	2,873.0	2,850.7	2,834.0	9.7	9.3	139.70	-161.2	-145.0	349.2	332.0	17.26	20.231	
3,000.0	2,970.1	2,946.3	2,928.1	10.1	9.6	139.85	-175.4	-155.1	378.5	360.8	17.78	21.288	
3,100.0	3,067.2	3,041.9	3,022.1	10.5	9.9	139.99	-189.5	-165.2	407.9	389.6	18.32	22.268	
3,200.0	3,164.3	3,137.5	3,116.1	10.9	10.3	140.11	-203.7	-175.3	437.2	418.4	18.86	23.178	
3,300.0	3,261.5	3,233.1	3,210.1	11.3	10.7	140.21	-217.8	-185.4	466.6	447.1	19.42	24.023	
3,400.0	3,358.6	3,328.7	3,304.1	11.7	11.0	140.30	-232.0	-195.5	495.9	475.9	19.99	24.808	
3,500.0	3,455.7	3,424.3	3,398.1	12.1	11.4	140.38	-246.1	-205.6	525.2	504.7	20.57	25.538	
3,600.0	3,552.9	3,519.9	3,492.1	12.5	11.8	140.45	-260.2	-215.7	554.6	533.4	21.15	26.217	
3,700.0	3,650.0	3,615.5	3,586.1	12.9	12.1	140.52	-274.4	-225.8	583.9	562.2	21.75	26.850	
3,800.0	3,747.1	3,711.1	3,680.1	13.4	12.5	140.58	-288.5	-235.9	613.3	590.9	22.35	27.440	
3,900.0	3,844.2	3,806.7	3,774.1	13.8	12.9	140.63	-302.7	-246.0	642.6	619.7	22.96	27.991	
4,000.0	3,941.4	3,902.3	3,868.1	14.2	13.3	140.68	-316.8	-256.1	672.0	648.4	23.57	28.505	
4,100.0	4,038.5	3,997.9	3,962.1	14.7	13.7	140.72	-330.9	-266.2	701.3	677.1	24.19	28.987	
4,200.0	4,135.6	4,093.5	4,056.1	15.1	14.1	140.76	-345.1	-276.3	730.6	705.8	24.82	29.439	
4,300.0	4,232.7	4,189.1	4,150.1	15.5	14.5	140.80	-359.2	-286.4	760.0	734.5	25.45	29.862	
4,400.0	4,329.9	4,284.7	4,244.1	16.0	14.9	140.84	-373.4	-296.5	789.3	763.2	26.09	30.260	
4,500.0	4,427.0	4,380.3	4,338.1	16.4	15.3	140.87	-387.5	-306.6	818.7	792.0	26.72	30.633	
4,600.0	4,524.1	4,475.9	4,432.1	16.9	15.7	140.90	-401.7	-316.7	848.0	820.7	27.37	30.985	
4,700.0	4,621.3	4,571.5	4,526.1	17.4	16.1	140.93	-415.8	-326.8	877.4	849.4	28.02	31.317	
4,800.0	4,718.4	4,667.1	4,620.1	17.8	16.5	140.95	-429.9	-336.9	906.7	878.0	28.67	31.630	
4,900.0	4,815.5	4,762.7	4,714.1	18.3	16.9	140.98	-444.1	-347.0	936.1	906.7	29.32	31.925	

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 501H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Distance	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)			
5,000.0	4,912.6	4,858.3	4,808.1	18.7	17.3	141.00	-458.2	-357.1	965.4	935.4	29.98	32.205	
5,100.0	5,009.8	4,953.9	4,902.1	19.2	17.8	141.02	-472.4	-367.2	994.8	964.1	30.64	32.469	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 701H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 MWD+IFR1						Rule Assigned:						Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-90.44	-0.5	-60.1	60.1	53.6	6.43	9.344				
100.0	100.0	100.0	100.0	3.2	3.2	-90.44	-0.5	-60.1	60.1	53.2	6.89	8.715				
200.0	200.0	200.0	200.0	3.5	3.5	-90.44	-0.5	-60.1	60.1	52.7	7.33	8.197				
300.0	300.0	300.0	300.0	3.7	3.7	-90.44	-0.5	-60.1	60.1	52.3	7.74	7.760				
400.0	400.0	400.0	400.0	3.9	3.9	-90.44	-0.5	-60.1	60.1	51.9	8.14	7.384				
500.0	500.0	500.0	500.0	4.1	4.1	-90.44	-0.5	-60.1	60.1	51.6	8.51	7.056				
600.0	600.0	600.0	600.0	4.2	4.2	-90.44	-0.5	-60.1	60.1	51.2	8.88	6.766				
700.0	700.0	700.0	700.0	4.4	4.4	-90.44	-0.5	-60.1	60.1	50.8	9.23	6.509				
800.0	800.0	800.0	800.0	4.6	4.6	-90.44	-0.5	-60.1	60.1	50.5	9.57	6.277				
900.0	900.0	900.0	900.0	4.8	4.8	-90.44	-0.5	-60.1	60.1	50.2	9.90	6.067				
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.44	-0.5	-60.1	60.1	49.8	10.22	5.875				
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-90.44	-0.5	-60.1	60.1	49.5	10.54	5.699				
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-90.44	-0.5	-60.1	60.1	49.2	10.85	5.538				
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	-90.44	-0.5	-60.1	60.1	48.9	11.15	5.388				
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	-90.44	-0.5	-60.1	60.1	48.6	11.44	5.249				
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	-90.44	-0.5	-60.1	60.1	48.3	11.73	5.119 CC, ES, SF				
1,600.0	1,600.0	1,598.6	1,598.6	5.9	5.9	142.60	-1.8	-61.1	62.5	50.5	12.07	5.180				
1,700.0	1,699.8	1,696.9	1,696.8	6.1	6.1	141.84	-5.8	-64.3	70.0	57.6	12.39	5.647				
1,800.0	1,799.5	1,794.5	1,794.0	6.3	6.3	140.87	-12.3	-69.5	82.3	69.6	12.71	6.472				
1,900.0	1,898.7	1,891.0	1,889.8	6.6	6.6	139.87	-21.3	-76.6	99.5	86.4	13.05	7.622				
2,000.0	1,997.5	1,986.1	1,983.7	6.9	6.8	138.96	-32.7	-85.6	121.5	108.1	13.41	9.062				
2,100.0	2,095.6	2,081.6	2,077.8	7.2	7.0	138.34	-46.0	-96.2	147.7	134.0	13.75	10.740				
2,188.3	2,181.7	2,166.2	2,160.9	7.4	7.2	138.45	-58.0	-105.6	173.1	159.0	14.08	12.289				
2,200.0	2,193.1	2,177.4	2,171.9	7.4	7.2	138.54	-59.5	-106.9	176.6	162.5	14.12	12.505				
2,300.0	2,290.2	2,272.8	2,265.8	7.7	7.5	139.20	-73.0	-117.5	206.4	191.9	14.56	14.182				
2,400.0	2,387.3	2,368.2	2,359.7	8.0	7.8	139.69	-86.4	-128.2	236.3	221.3	14.97	15.785				
2,500.0	2,484.4	2,463.6	2,453.5	8.3	8.0	140.07	-99.9	-138.8	266.2	250.8	15.41	17.277				
2,600.0	2,581.6	2,559.0	2,547.4	8.7	8.3	140.38	-113.3	-149.5	296.1	280.2	15.87	18.661				
2,700.0	2,678.7	2,654.4	2,641.2	9.0	8.6	140.62	-126.8	-160.1	326.0	309.6	16.34	19.945				
2,800.0	2,775.8	2,749.9	2,735.1	9.4	8.9	140.83	-140.3	-170.8	355.9	339.0	16.84	21.132				
2,900.0	2,873.0	2,845.3	2,829.0	9.7	9.3	141.01	-153.7	-181.4	385.8	368.4	17.35	22.231				
3,000.0	2,970.1	2,940.7	2,922.8	10.1	9.6	141.15	-167.2	-192.1	415.7	397.8	17.88	23.248				
3,100.0	3,067.2	3,036.1	3,016.7	10.5	9.9	141.28	-180.6	-202.7	445.6	427.2	18.42	24.188				
3,200.0	3,164.3	3,131.5	3,110.5	10.9	10.3	141.40	-194.1	-213.4	475.5	456.6	18.98	25.058				
3,300.0	3,261.5	3,226.9	3,204.4	11.3	10.6	141.50	-207.5	-224.1	505.4	485.9	19.54	25.864				
3,400.0	3,358.6	3,322.4	3,298.3	11.7	11.0	141.59	-221.0	-234.7	535.4	515.2	20.12	26.611				
3,500.0	3,455.7	3,417.8	3,392.1	12.1	11.4	141.66	-234.4	-245.4	565.3	544.6	20.70	27.303				
3,600.0	3,552.9	3,513.2	3,486.0	12.5	11.7	141.74	-247.9	-256.0	595.2	573.9	21.30	27.946				
3,700.0	3,650.0	3,608.6	3,579.8	12.9	12.1	141.80	-261.3	-266.7	625.1	603.2	21.90	28.544				
3,800.0	3,747.1	3,704.0	3,673.7	13.4	12.5	141.86	-274.8	-277.3	655.0	632.5	22.51	29.100				
3,900.0	3,844.2	3,799.4	3,767.6	13.8	12.9	141.91	-288.2	-288.0	685.0	661.8	23.13	29.617				
4,000.0	3,941.4	3,894.9	3,861.4	14.2	13.3	141.96	-301.7	-298.6	714.9	691.1	23.75	30.100				
4,100.0	4,038.5	3,990.3	3,955.3	14.7	13.7	142.01	-315.1	-309.3	744.8	720.4	24.38	30.551				
4,200.0	4,135.6	4,085.7	4,049.2	15.1	14.1	142.05	-328.6	-319.9	774.7	749.7	25.01	30.973				
4,300.0	4,232.7	4,181.1	4,143.0	15.5	14.5	142.09	-342.1	-330.6	804.7	779.0	25.65	31.368				
4,400.0	4,329.9	4,276.5	4,236.9	16.0	14.9	142.12	-355.5	-341.2	834.6	808.3	26.30	31.738				
4,500.0	4,427.0	4,371.9	4,330.7	16.4	15.3	142.15	-369.0	-351.9	864.5	837.6	26.94	32.085				
4,600.0	4,524.1	4,467.4	4,424.6	16.9	15.7	142.19	-382.4	-362.6	894.4	866.8	27.60	32.411				
4,700.0	4,621.3	4,562.8	4,518.5	17.4	16.1	142.21	-395.9	-373.2	924.3	896.1	28.25	32.718				
4,800.0	4,718.4	4,658.2	4,612.3	17.8	16.5	142.24	-409.3	-383.9	954.3	925.4	28.91	33.007				
4,900.0	4,815.5	4,753.6	4,706.2	18.3	16.9	142.27	-422.8	-394.5	984.2	954.6	29.57	33.280				

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 701H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		Between	Between	No-Go	Separation		
Depth	Depth	Depth	Depth			Toolface		Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	90.09	0.0	30.3	30.3	23.9	6.43	4.720		
100.0	100.0	100.0	100.0	3.2	3.2	90.09	0.0	30.3	30.3	23.5	6.89	4.402		
200.0	200.0	200.0	200.0	3.5	3.5	90.09	0.0	30.3	30.3	23.0	7.33	4.141		
300.0	300.0	300.0	300.0	3.7	3.7	90.09	0.0	30.3	30.3	22.6	7.74	3.920		
400.0	400.0	400.0	400.0	3.9	3.9	90.09	0.0	30.3	30.3	22.2	8.14	3.730		
500.0	500.0	500.0	500.0	4.1	4.1	90.09	0.0	30.3	30.3	21.8	8.51	3.564		
600.0	600.0	600.0	600.0	4.2	4.2	90.09	0.0	30.3	30.3	21.5	8.88	3.418		
700.0	700.0	700.0	700.0	4.4	4.4	90.09	0.0	30.3	30.3	21.1	9.23	3.288		
800.0	800.0	800.0	800.0	4.6	4.6	90.09	0.0	30.3	30.3	20.8	9.57	3.170		
900.0	900.0	900.0	900.0	4.8	4.8	90.09	0.0	30.3	30.3	20.4	9.90	3.064		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	90.09	0.0	30.3	30.3	20.1	10.22	2.968 Normal Operations		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	90.09	0.0	30.3	30.3	19.8	10.54	2.879 Normal Operations		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	90.09	0.0	30.3	30.3	19.5	10.85	2.797 Normal Operations		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.4	90.09	0.0	30.3	30.3	19.2	11.15	2.722 Normal Operations		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	90.09	0.0	30.3	30.3	18.9	11.44	2.651 Normal Operations		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	5.7	90.09	0.0	30.3	30.3	18.6	11.73	2.586 Normal Operations, CC		
1,600.0	1,600.0	1,599.1	1,599.1	5.9	5.9	-36.77	-1.0	31.8	30.4	18.3	12.10	2.512 Normal Operations		
1,700.0	1,699.8	1,698.2	1,698.1	6.1	6.1	-37.33	-3.8	36.1	30.6	18.1	12.44	2.455 Caution - Monitor Closely		
1,800.0	1,799.5	1,797.4	1,796.8	6.3	6.3	-38.25	-8.4	43.3	30.8	18.0	12.79	2.409 Caution - Monitor Closely, ES		
1,900.0	1,898.7	1,896.5	1,895.2	6.6	6.6	-39.51	-15.0	53.3	31.2	18.1	13.15	2.373 Caution - Monitor Closely		
2,000.0	1,997.5	1,995.6	1,993.1	6.9	6.9	-41.08	-23.3	66.2	31.7	18.2	13.52	2.346 Caution - Monitor Closely		
2,100.0	2,095.6	2,094.7	2,090.5	7.2	7.2	-42.93	-33.5	81.9	32.4	18.5	13.90	2.331 Caution - Monitor Closely		
2,188.3	2,181.7	2,182.2	2,175.8	7.4	7.4	-44.76	-44.0	98.2	33.1	18.9	14.17	2.336 Caution - Monitor Closely		
2,200.0	2,193.1	2,194.0	2,187.2	7.4	7.4	-45.02	-45.5	100.5	33.2	19.0	14.19	2.339 Caution - Monitor Closely		
2,300.0	2,290.2	2,294.0	2,284.4	7.7	7.7	-47.21	-58.4	120.2	34.1	19.5	14.62	2.330 Caution - Monitor Closely, SF		
2,400.0	2,387.3	2,393.9	2,381.6	8.0	8.0	-49.29	-71.2	140.0	35.0	20.0	15.00	2.332 Caution - Monitor Closely		
2,500.0	2,484.4	2,493.9	2,478.7	8.3	8.3	-51.26	-84.0	159.7	36.0	20.6	15.39	2.336 Caution - Monitor Closely		
2,600.0	2,581.6	2,593.9	2,575.9	8.7	8.6	-53.12	-96.8	179.4	37.0	21.2	15.79	2.342 Caution - Monitor Closely		
2,700.0	2,678.7	2,693.9	2,673.1	9.0	8.9	-54.89	-109.6	199.2	38.0	21.8	16.18	2.348 Caution - Monitor Closely		
2,800.0	2,775.8	2,793.9	2,770.3	9.4	9.3	-56.55	-122.4	218.9	39.1	22.5	16.58	2.357 Caution - Monitor Closely		
2,900.0	2,873.0	2,893.9	2,867.5	9.7	9.7	-58.13	-135.2	238.6	40.2	23.2	16.98	2.366 Caution - Monitor Closely		
3,000.0	2,970.1	2,993.9	2,964.7	10.1	10.0	-59.62	-148.0	258.4	41.3	23.9	17.38	2.377 Caution - Monitor Closely		
3,100.0	3,067.2	3,093.9	3,061.8	10.5	10.4	-61.03	-160.8	278.1	42.5	24.7	17.78	2.389 Caution - Monitor Closely		
3,200.0	3,164.3	3,193.8	3,159.0	10.9	10.8	-62.37	-173.6	297.9	43.7	25.5	18.18	2.401 Caution - Monitor Closely		
3,300.0	3,261.5	3,293.8	3,256.2	11.3	11.2	-63.63	-186.4	317.6	44.9	26.3	18.58	2.415 Caution - Monitor Closely		
3,400.0	3,358.6	3,393.8	3,353.4	11.7	11.6	-64.83	-199.2	337.3	46.1	27.1	18.98	2.429 Caution - Monitor Closely		
3,500.0	3,455.7	3,493.8	3,450.6	12.1	12.0	-65.97	-212.0	357.1	47.4	28.0	19.38	2.443 Caution - Monitor Closely		
3,600.0	3,552.9	3,593.8	3,547.7	12.5	12.4	-67.04	-224.8	376.8	48.6	28.8	19.78	2.458 Caution - Monitor Closely		
3,700.0	3,650.0	3,693.8	3,644.9	12.9	12.9	-68.06	-237.6	396.5	49.9	29.7	20.18	2.472 Caution - Monitor Closely		
3,800.0	3,747.1	3,793.8	3,742.1	13.4	13.3	-69.03	-250.4	416.3	51.2	30.6	20.58	2.487 Caution - Monitor Closely		
3,900.0	3,844.2	3,893.8	3,839.3	13.8	13.7	-69.96	-263.2	436.0	52.5	31.5	20.98	2.502 Normal Operations		
4,000.0	3,941.4	3,993.7	3,936.5	14.2	14.2	-70.83	-276.0	455.8	53.8	32.4	21.39	2.517 Normal Operations		
4,100.0	4,038.5	4,093.7	4,033.6	14.7	14.6	-71.67	-288.8	475.5	55.2	33.4	21.79	2.532 Normal Operations		
4,200.0	4,135.6	4,193.7	4,130.8	15.1	15.0	-72.46	-301.6	495.2	56.5	34.3	22.20	2.546 Normal Operations		
4,300.0	4,232.7	4,293.7	4,228.0	15.5	15.5	-73.22	-314.4	515.0	57.9	35.3	22.60	2.561 Normal Operations		
4,400.0	4,329.9	4,393.7	4,325.2	16.0	15.9	-73.94	-327.2	534.7	59.2	36.2	23.01	2.575 Normal Operations		
4,500.0	4,427.0	4,493.7	4,422.4	16.4	16.4	-74.63	-340.0	554.4	60.6	37.2	23.42	2.588 Normal Operations		
4,600.0	4,524.1	4,593.7	4,519.5	16.9	16.8	-75.29	-352.8	574.2	62.0	38.2	23.83	2.602 Normal Operations		
4,700.0	4,621.3	4,693.7	4,616.7	17.4	17.3	-75.92	-365.6	593.9	63.4	39.2	24.24	2.615 Normal Operations		
4,800.0	4,718.4	4,793.6	4,713.9	17.8	17.7	-76.52	-378.4	613.6	64.8	40.1	24.66	2.628 Normal Operations		
4,900.0	4,815.5	4,893.6	4,811.1	18.3	18.2	-77.10	-391.2	633.4	66.2	41.1	25.07	2.640 Normal Operations		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
5,000.0	4,912.6	4,993.6	4,908.3	18.7	18.7	-77.65	-404.0	653.1	67.6	42.1	25.49	2.652 Normal Operations	
5,100.0	5,009.8	5,093.6	5,005.5	19.2	19.1	-78.18	-416.8	672.9	69.0	43.1	25.91	2.664 Normal Operations	
5,200.0	5,106.9	5,193.6	5,102.6	19.6	19.6	-78.69	-429.6	692.6	70.5	44.1	26.34	2.675 Normal Operations	
5,300.0	5,204.0	5,293.7	5,200.0	20.1	20.0	-79.35	-442.3	712.2	71.8	45.1	26.71	2.690 Normal Operations	
5,400.0	5,301.2	5,394.0	5,297.9	20.6	20.5	-81.15	-454.2	730.6	72.9	45.9	26.94	2.705 Normal Operations	
5,500.0	5,398.3	5,494.2	5,396.0	21.0	20.9	-84.23	-465.2	747.5	73.7	46.6	27.04	2.725 Normal Operations	
5,539.5	5,436.7	5,533.7	5,434.8	21.2	21.1	-85.80	-469.3	753.7	74.0	46.9	27.05	2.735 Normal Operations	
5,600.0	5,495.5	5,594.2	5,494.3	21.5	21.4	-88.33	-475.2	762.9	74.5	47.4	27.13	2.748 Normal Operations	
5,700.0	5,593.0	5,694.1	5,592.8	22.0	21.8	-92.42	-484.3	776.9	75.6	48.2	27.42	2.759 Normal Operations	
5,800.0	5,691.0	5,793.9	5,691.5	22.4	22.2	-96.37	-492.4	789.5	77.0	49.1	27.91	2.760 Normal Operations	
5,900.0	5,789.3	5,893.7	5,790.4	22.9	22.7	-100.18	-499.6	800.5	78.6	50.1	28.58	2.752 Normal Operations	
6,000.0	5,887.8	5,993.3	5,889.4	23.3	23.1	-103.84	-505.9	810.2	80.5	51.1	29.42	2.735 Normal Operations	
6,100.0	5,986.7	6,092.9	5,988.4	23.7	23.4	-107.33	-511.2	818.4	82.5	52.1	30.40	2.715 Normal Operations	
6,200.0	6,085.8	6,192.4	6,087.6	24.1	23.8	-110.66	-515.6	825.1	84.8	53.3	31.49	2.692 Normal Operations	
6,300.0	6,185.1	6,291.8	6,186.8	24.5	24.2	-113.83	-519.0	830.4	87.1	54.5	32.64	2.670 Normal Operations	
6,400.0	6,284.6	6,391.1	6,286.0	24.9	24.5	-116.84	-521.5	834.2	89.7	55.8	33.84	2.650 Normal Operations	
6,500.0	6,384.3	6,490.3	6,385.1	25.3	24.8	-119.71	-523.0	836.6	92.3	57.3	35.06	2.634 Normal Operations	
6,600.0	6,484.1	6,589.4	6,484.2	25.7	24.9	-122.43	-523.6	837.5	95.1	58.9	36.22	2.626 Normal Operations	
6,700.0	6,584.0	6,689.1	6,584.0	26.0	25.0	-124.74	-523.6	837.5	97.7	60.4	37.26	2.622 Normal Operations	
6,800.0	6,683.9	6,789.1	6,683.9	26.3	25.0	-126.12	-523.6	837.5	99.4	61.4	37.97	2.617 Normal Operations	
6,900.0	6,783.9	6,889.1	6,783.9	26.5	25.0	-126.66	-523.6	837.5	100.0	61.7	38.35	2.609 Normal Operations	
6,916.1	6,800.0	6,905.2	6,800.0	26.5	25.0	0.00	-523.6	837.5	100.1	61.7	38.37	2.608 Normal Operations	
7,000.0	6,883.9	6,989.1	6,883.9	26.6	25.1	0.00	-523.6	837.5	100.1	61.6	38.43	2.603 Normal Operations	
7,100.0	6,983.9	7,089.1	6,983.9	26.6	25.1	0.00	-523.6	837.5	100.1	61.5	38.51	2.598 Normal Operations	
7,200.0	7,083.9	7,189.1	7,083.9	26.6	25.1	0.00	-523.6	837.5	100.1	61.5	38.59	2.593 Normal Operations	
7,300.0	7,183.9	7,289.1	7,183.9	26.6	25.2	0.00	-523.6	837.5	100.1	61.4	38.66	2.588 Normal Operations	
7,400.0	7,283.9	7,389.1	7,283.9	26.6	25.2	0.00	-523.6	837.5	100.1	61.3	38.74	2.583 Normal Operations	
7,500.0	7,383.9	7,489.1	7,383.9	26.7	25.2	0.00	-523.6	837.5	100.1	61.2	38.82	2.577 Normal Operations	
7,600.0	7,483.9	7,589.1	7,483.9	26.7	25.2	0.00	-523.6	837.5	100.1	61.2	38.90	2.572 Normal Operations	
7,700.0	7,583.9	7,689.1	7,583.9	26.7	25.3	0.00	-523.6	837.5	100.1	61.1	38.98	2.567 Normal Operations	
7,800.0	7,683.9	7,789.1	7,683.9	26.7	25.3	0.00	-523.6	837.5	100.1	61.0	39.06	2.562 Normal Operations	
7,900.0	7,783.9	7,889.1	7,783.9	26.8	25.3	0.00	-523.6	837.5	100.1	60.9	39.14	2.556 Normal Operations	
8,000.0	7,883.9	7,989.1	7,883.9	26.8	25.4	0.00	-523.6	837.5	100.1	60.8	39.22	2.551 Normal Operations	
8,100.0	7,983.9	8,089.1	7,983.9	26.8	25.4	0.00	-523.6	837.5	100.1	60.7	39.30	2.546 Normal Operations	
8,200.0	8,083.9	8,189.1	8,083.9	26.9	25.4	0.00	-523.6	837.5	100.1	60.7	39.38	2.540 Normal Operations	
8,300.0	8,183.9	8,289.1	8,183.9	26.9	25.4	0.00	-523.6	837.5	100.1	60.6	39.47	2.535 Normal Operations	
8,400.0	8,283.9	8,389.1	8,283.9	26.9	25.5	0.00	-523.6	837.5	100.1	60.5	39.55	2.530 Normal Operations	
8,500.0	8,383.9	8,489.1	8,383.9	26.9	25.5	0.00	-523.6	837.5	100.1	60.4	39.63	2.524 Normal Operations	
8,600.0	8,483.9	8,589.1	8,483.9	27.0	25.5	0.00	-523.6	837.5	100.1	60.3	39.72	2.519 Normal Operations	
8,700.0	8,583.9	8,689.1	8,583.9	27.0	25.6	0.00	-523.6	837.5	100.1	60.2	39.80	2.514 Normal Operations	
8,800.0	8,683.9	8,789.1	8,683.9	27.0	25.6	0.00	-523.6	837.5	100.1	60.2	39.89	2.508 Normal Operations	
8,900.0	8,783.9	8,889.1	8,783.9	27.0	25.6	0.00	-523.6	837.5	100.1	60.1	39.97	2.503 Normal Operations	
9,000.0	8,883.9	8,989.1	8,883.9	27.1	25.7	0.00	-523.6	837.5	100.1	60.0	40.06	2.498 Caution - Monitor Closely	
9,100.0	8,983.9	9,089.1	8,983.9	27.1	25.7	0.00	-523.6	837.5	100.1	59.9	40.15	2.492 Caution - Monitor Closely	
9,200.0	9,083.9	9,189.1	9,083.9	27.1	25.7	0.00	-523.6	837.5	100.1	59.8	40.23	2.487 Caution - Monitor Closely	
9,300.0	9,183.9	9,289.1	9,183.9	27.2	25.8	0.00	-523.6	837.5	100.1	59.7	40.32	2.481 Caution - Monitor Closely	
9,400.0	9,283.9	9,389.1	9,283.9	27.2	25.8	0.00	-523.6	837.5	100.1	59.6	40.41	2.476 Caution - Monitor Closely	
9,500.0	9,383.9	9,489.1	9,383.9	27.2	25.8	0.00	-523.6	837.5	100.1	59.6	40.50	2.471 Caution - Monitor Closely	
9,600.0	9,483.9	9,589.1	9,483.9	27.2	25.9	0.00	-523.6	837.5	100.1	59.5	40.59	2.465 Caution - Monitor Closely	
9,700.0	9,583.9	9,689.1	9,583.9	27.3	25.9	0.00	-523.6	837.5	100.1	59.4	40.67	2.460 Caution - Monitor Closely	

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		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)	No-Go Distance (usft)	Separation Factor	Warning	
9,800.0	9,683.9	9,789.1	9,683.9	27.3	25.9	0.00	-523.6	837.5	100.1	59.3	40.76	2.454	Caution - Monitor Closely	
9,900.0	9,783.9	9,889.1	9,783.9	27.3	26.0	0.00	-523.6	837.5	100.1	59.2	40.85	2.449	Caution - Monitor Closely	
10,000.0	9,883.9	9,989.1	9,883.9	27.4	26.0	0.00	-523.6	837.5	100.1	59.1	40.94	2.444	Caution - Monitor Closely	
10,100.0	9,983.9	10,089.1	9,983.9	27.4	26.0	0.00	-523.6	837.5	100.1	59.0	41.04	2.438	Caution - Monitor Closely	
10,118.1	10,002.0	10,107.2	10,002.0	27.4	26.0	0.00	-523.6	837.5	100.1	59.0	41.05	2.437	Caution - Monitor Closely	
10,150.0	10,033.9	10,139.1	10,033.9	27.4	26.0	-179.62	-523.6	837.5	100.9	59.8	41.11	2.455	Caution - Monitor Closely	
10,200.0	10,083.7	10,188.8	10,083.7	27.6	26.1	-179.64	-523.6	837.5	105.9	64.6	41.33	2.562	Normal Operations	
10,250.0	10,132.8	10,237.9	10,132.8	27.7	26.1	-179.66	-523.6	837.5	115.2	73.6	41.58	2.770	Normal Operations	
10,300.0	10,180.9	10,286.0	10,180.9	27.8	26.1	-179.69	-523.6	837.5	128.7	86.9	41.84	3.076		
10,350.0	10,227.7	10,332.8	10,227.7	28.0	26.1	-179.72	-523.6	837.5	146.4	104.2	42.11	3.476		
10,400.0	10,272.7	10,377.8	10,272.7	28.2	26.1	-179.74	-523.6	837.5	168.0	125.6	42.38	3.965		
10,450.0	10,315.7	10,420.8	10,315.7	28.3	26.1	-179.77	-523.6	837.5	193.5	150.9	42.66	4.537		
10,500.0	10,356.3	10,461.4	10,356.3	28.5	26.2	-179.78	-523.6	837.5	222.7	179.8	42.92	5.189		
10,550.0	10,394.2	10,499.3	10,394.2	28.7	26.2	-179.80	-523.6	837.5	255.3	212.1	43.17	5.913		
10,600.0	10,429.1	10,534.2	10,429.1	28.8	26.2	-179.80	-523.6	837.5	291.1	247.7	43.41	6.705		
10,650.0	10,460.7	10,565.9	10,460.7	29.0	26.2	-179.81	-523.6	837.5	329.7	286.1	43.63	7.557		
10,700.0	10,488.9	10,594.1	10,488.9	29.1	26.2	-179.81	-523.6	837.5	371.0	327.2	43.84	8.464		
10,750.0	10,513.4	10,618.5	10,513.4	29.2	26.2	-179.80	-523.6	837.5	414.6	370.6	44.01	9.420		
10,800.0	10,534.0	10,639.1	10,534.0	29.4	26.2	-179.78	-523.6	837.5	460.2	416.0	44.17	10.419		
10,850.0	10,550.5	10,655.6	10,550.5	29.5	26.2	-179.74	-523.6	837.5	507.3	463.1	44.29	11.454		
10,900.0	10,562.8	10,668.0	10,562.8	29.5	26.2	-179.67	-523.6	837.5	555.8	511.4	44.39	12.520		
10,950.0	10,570.9	10,676.1	10,570.9	29.6	26.2	-179.47	-523.6	837.5	605.1	560.6	44.46	13.610		
11,000.0	10,574.7	10,679.8	10,574.7	29.7	26.2	-178.16	-523.6	837.5	655.0	610.5	44.50	14.718		
11,018.1	10,575.0	10,680.1	10,575.0	29.7	26.2	-90.16	-523.6	837.5	673.0	628.5	44.51	15.121		
11,100.0	10,575.0	10,680.1	10,575.0	29.8	26.2	-90.18	-523.6	837.5	754.9	710.4	44.53	16.954		
11,200.0	10,575.0	10,680.1	10,575.0	29.9	26.2	-90.21	-523.6	837.5	854.9	810.4	44.55	19.189		
11,300.0	10,575.0	10,680.1	10,575.0	30.1	26.2	-90.23	-523.6	837.5	954.9	910.4	44.58	21.420		
11,400.0	10,575.0	12,464.1	11,550.0	30.3	29.4	-179.96	-1,578.6	844.5	975.0	923.3	51.72	18.851		
11,500.0	10,575.0	12,564.1	11,550.0	30.5	29.7	-179.96	-1,678.6	845.2	975.0	922.5	52.47	18.582		
11,600.0	10,575.0	12,664.1	11,550.0	30.8	30.0	-179.96	-1,778.6	845.8	975.0	921.7	53.25	18.309		
11,700.0	10,575.0	12,764.1	11,550.0	31.1	30.3	-179.96	-1,878.6	846.5	975.0	920.9	54.07	18.032		
11,800.0	10,575.0	12,864.1	11,550.0	31.5	30.8	-179.96	-1,978.6	847.1	975.0	920.1	54.92	17.754		
11,900.0	10,575.0	12,964.1	11,550.0	31.8	31.2	-179.96	-2,078.6	847.8	975.0	919.2	55.80	17.474		
12,000.0	10,575.0	13,064.1	11,550.0	32.3	31.7	-179.97	-2,178.6	848.4	975.0	918.3	56.70	17.195		
12,100.0	10,575.0	13,164.1	11,550.0	32.7	32.2	-179.97	-2,278.6	849.1	975.0	917.4	57.64	16.916		
12,200.0	10,575.0	13,264.1	11,550.0	33.2	32.7	-179.97	-2,378.6	849.8	975.0	916.4	58.60	16.638		
12,300.0	10,575.0	13,364.1	11,550.0	33.7	33.3	-179.97	-2,478.5	850.4	975.0	915.4	59.59	16.363		
12,400.0	10,575.0	13,464.1	11,550.0	34.3	33.9	-179.97	-2,578.5	851.1	975.0	914.4	60.60	16.090		
12,500.0	10,575.0	13,564.1	11,550.0	34.9	34.5	-179.97	-2,678.5	851.7	975.0	913.4	61.63	15.820		
12,600.0	10,575.0	13,664.1	11,550.0	35.5	35.2	-179.97	-2,778.5	852.4	975.0	912.3	62.68	15.554		
12,700.0	10,575.0	13,764.1	11,550.0	36.2	35.9	-179.97	-2,878.5	853.0	975.0	911.2	63.76	15.292		
12,800.0	10,575.0	13,864.1	11,550.0	36.8	36.6	-179.97	-2,978.5	853.7	975.0	910.1	64.85	15.034		
12,900.0	10,575.0	13,964.1	11,550.0	37.5	37.3	-179.97	-3,078.5	854.4	975.0	909.0	65.96	14.781		
13,000.0	10,575.0	14,064.1	11,550.0	38.2	38.0	-179.97	-3,178.5	855.0	975.0	907.9	67.09	14.532		
13,100.0	10,575.0	14,164.1	11,550.0	39.0	38.7	-179.97	-3,278.5	855.7	975.0	906.8	68.24	14.288		
13,200.0	10,575.0	14,264.1	11,550.0	39.7	39.5	-179.97	-3,378.5	856.3	975.0	905.6	69.40	14.049		
13,300.0	10,575.0	14,364.1	11,550.0	40.5	40.3	-179.97	-3,478.5	857.0	975.0	904.4	70.58	13.815		
13,400.0	10,575.0	14,464.1	11,550.0	41.2	41.0	-179.97	-3,578.5	857.7	975.0	903.2	71.77	13.585		
13,500.0	10,575.0	14,564.1	11,550.0	42.0	41.8	-179.97	-3,678.5	858.3	975.0	902.0	72.97	13.361		
13,600.0	10,575.0	14,664.1	11,550.0	42.8	42.6	-179.97	-3,778.5	859.0	975.0	900.8	74.19	13.142		
13,700.0	10,575.0	14,764.1	11,550.0	43.6	43.4	-179.97	-3,878.5	859.6	975.0	899.6	75.42	12.928		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				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)	No-Go Distance (usft)	Separation Factor	Warning
13,800.0	10,575.0	14,864.1	11,550.0	44.4	44.3	-179.97	-3,978.5	860.3	975.0	898.3	76.66	12.718	
13,900.0	10,575.0	14,964.1	11,550.0	45.2	45.1	-179.97	-4,078.5	860.9	975.0	897.1	77.91	12.514	
14,000.0	10,575.0	15,064.1	11,550.0	46.0	45.9	-179.97	-4,178.5	861.6	975.0	895.8	79.18	12.314	
14,100.0	10,575.0	15,164.1	11,550.0	46.9	46.7	-179.97	-4,278.5	862.3	975.0	894.6	80.45	12.120	
14,200.0	10,575.0	15,264.1	11,550.0	47.7	47.6	-179.97	-4,378.5	862.9	975.0	893.3	81.73	11.929	
14,300.0	10,575.0	15,364.1	11,550.0	48.6	48.4	-179.97	-4,478.5	863.6	975.0	892.0	83.02	11.744	
14,400.0	10,575.0	15,464.1	11,550.0	49.4	49.3	-179.97	-4,578.5	864.2	975.0	890.7	84.32	11.563	
14,500.0	10,575.0	15,564.1	11,550.0	50.3	50.1	-179.97	-4,678.5	864.9	975.0	889.4	85.63	11.386	
14,600.0	10,575.0	15,664.1	11,550.0	51.1	51.0	-179.97	-4,778.5	865.6	975.0	888.1	86.95	11.214	
14,700.0	10,575.0	15,764.1	11,550.0	52.0	51.9	-179.97	-4,878.5	866.2	975.0	886.7	88.27	11.045	
14,800.0	10,575.0	15,864.1	11,550.0	52.9	52.7	-179.97	-4,978.5	866.9	975.0	885.4	89.60	10.881	
14,900.0	10,575.0	15,964.1	11,550.0	53.7	53.6	-179.97	-5,078.5	867.5	975.0	884.1	90.94	10.721	
15,000.0	10,575.0	16,064.1	11,550.0	54.6	54.5	-179.97	-5,178.5	868.2	975.0	882.7	92.29	10.565	
15,100.0	10,575.0	16,164.1	11,550.0	55.5	55.4	-179.97	-5,278.5	868.8	975.0	881.4	93.64	10.412	
15,200.0	10,575.0	16,264.1	11,550.0	56.4	56.3	-179.97	-5,378.5	869.5	975.0	880.0	94.99	10.264	
15,300.0	10,575.0	16,364.1	11,550.0	57.3	57.2	-179.97	-5,478.5	870.2	975.0	878.6	96.36	10.119	
15,400.0	10,575.0	16,464.1	11,550.0	58.2	58.0	-179.97	-5,578.5	870.8	975.0	877.3	97.73	9.977	
15,500.0	10,575.0	16,564.1	11,550.0	59.1	58.9	-179.97	-5,678.5	871.5	975.0	875.9	99.10	9.839	
15,600.0	10,575.0	16,664.1	11,550.0	59.9	59.8	-179.97	-5,778.5	872.1	975.0	874.5	100.48	9.703	
15,700.0	10,575.0	16,764.1	11,550.0	60.8	60.7	-179.97	-5,878.5	872.8	975.0	873.1	101.86	9.572	
15,800.0	10,575.0	16,864.1	11,550.0	61.7	61.6	-179.97	-5,978.5	873.4	975.0	871.7	103.25	9.443	
15,900.0	10,575.0	16,964.1	11,550.0	62.7	62.5	-179.97	-6,078.5	874.1	975.0	870.4	104.64	9.317	
16,000.0	10,575.0	17,064.1	11,550.0	63.6	63.4	-179.98	-6,178.5	874.8	975.0	869.0	106.04	9.194	
16,100.0	10,575.0	17,164.1	11,550.0	64.5	64.4	-179.98	-6,278.5	875.4	975.0	867.6	107.44	9.075	
16,200.0	10,575.0	17,264.1	11,550.0	65.4	65.3	-179.98	-6,378.5	876.1	975.0	866.2	108.85	8.957	
16,300.0	10,575.0	17,364.1	11,550.0	66.3	66.2	-179.98	-6,478.5	876.7	975.0	864.7	110.26	8.843	
16,400.0	10,575.0	17,464.1	11,550.0	67.2	67.1	-179.98	-6,578.5	877.4	975.0	863.3	111.67	8.731	
16,500.0	10,575.0	17,564.1	11,550.0	68.1	68.0	-179.98	-6,678.5	878.1	975.0	861.9	113.09	8.622	
16,600.0	10,575.0	17,664.1	11,550.0	69.0	68.9	-179.98	-6,778.5	878.7	975.0	860.5	114.51	8.515	
16,700.0	10,575.0	17,764.1	11,550.0	70.0	69.8	-179.98	-6,878.5	879.4	975.0	859.1	115.93	8.410	
16,800.0	10,575.0	17,864.1	11,550.0	70.9	70.8	-179.98	-6,978.5	880.0	975.0	857.6	117.36	8.308	
16,900.0	10,575.0	17,964.1	11,550.0	71.8	71.7	-179.98	-7,078.5	880.7	975.0	856.2	118.79	8.208	
17,000.0	10,575.0	18,064.1	11,550.0	72.7	72.6	-179.98	-7,178.4	881.3	975.0	854.8	120.22	8.110	
17,100.0	10,575.0	18,164.1	11,550.0	73.6	73.5	-179.98	-7,278.4	882.0	975.0	853.3	121.66	8.014	
17,200.0	10,575.0	18,264.1	11,550.0	74.6	74.5	-179.98	-7,378.4	882.7	975.0	851.9	123.09	7.921	
17,300.0	10,575.0	18,364.1	11,550.0	75.5	75.4	-179.98	-7,478.4	883.3	975.0	850.5	124.54	7.829	
17,400.0	10,575.0	18,464.1	11,550.0	76.4	76.3	-179.98	-7,578.4	884.0	975.0	849.0	125.98	7.739	
17,500.0	10,575.0	18,564.1	11,550.0	77.4	77.2	-179.98	-7,678.4	884.6	975.0	847.6	127.42	7.652	
17,600.0	10,575.0	18,664.1	11,550.0	78.3	78.2	-179.98	-7,778.4	885.3	975.0	846.1	128.87	7.566	
17,700.0	10,575.0	18,764.1	11,550.0	79.2	79.1	-179.98	-7,878.4	886.0	975.0	844.7	130.32	7.481	
17,800.0	10,575.0	18,864.1	11,550.0	80.2	80.0	-179.98	-7,978.4	886.6	975.0	843.2	131.78	7.399	
17,900.0	10,575.0	18,964.1	11,550.0	81.1	81.0	-179.98	-8,078.4	887.3	975.0	841.8	133.23	7.318	
18,000.0	10,575.0	19,064.1	11,550.0	82.0	81.9	-179.98	-8,178.4	887.9	975.0	840.3	134.69	7.239	
18,100.0	10,575.0	19,164.1	11,550.0	83.0	82.8	-179.98	-8,278.4	888.6	975.0	838.9	136.15	7.161	
18,200.0	10,575.0	19,264.1	11,550.0	83.9	83.8	-179.98	-8,378.4	889.2	975.0	837.4	137.61	7.085	
18,300.0	10,575.0	19,364.1	11,550.0	84.8	84.7	-179.98	-8,478.4	889.9	975.0	835.9	139.07	7.011	
18,400.0	10,575.0	19,464.1	11,550.0	85.8	85.7	-179.98	-8,578.4	890.6	975.0	834.5	140.54	6.938	
18,500.0	10,575.0	19,564.1	11,550.0	86.7	86.6	-179.98	-8,678.4	891.2	975.0	833.0	142.00	6.866	
18,600.0	10,575.0	19,664.1	11,550.0	87.7	87.5	-179.98	-8,778.4	891.9	975.0	831.5	143.47	6.796	
18,700.0	10,575.0	19,764.1	11,550.0	88.6	88.5	-179.98	-8,878.4	892.5	975.0	830.1	144.94	6.727	

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0										Offset Site Error:		0.0 usft
Survey Program:		0-r.5 MWD+IFR1		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)	No-Go Distance (usft)	Separation Factor	Warning	
18,800.0	10,575.0	19,864.1	11,550.0	89.5	89.4	-179.98	-8,978.4	893.2	975.0	828.6	146.41	6.659		
18,900.0	10,575.0	19,964.1	11,550.0	90.5	90.4	-179.98	-9,078.4	893.9	975.0	827.1	147.89	6.593		
19,000.0	10,575.0	20,064.1	11,550.0	91.4	91.3	-179.98	-9,178.4	894.5	975.0	825.6	149.36	6.528		
19,100.0	10,575.0	20,164.1	11,550.0	92.4	92.3	-179.98	-9,278.4	895.2	975.0	824.2	150.84	6.464		
19,200.0	10,575.0	20,264.1	11,550.0	93.3	93.2	-179.98	-9,378.4	895.8	975.0	822.7	152.31	6.401		
19,300.0	10,575.0	20,364.1	11,550.0	94.3	94.1	-179.98	-9,478.4	896.5	975.0	821.2	153.79	6.340		
19,400.0	10,575.0	20,464.1	11,550.0	95.2	95.1	-179.98	-9,578.4	897.1	975.0	819.7	155.27	6.279		
19,500.0	10,575.0	20,564.1	11,550.0	96.1	96.0	-179.98	-9,678.4	897.8	975.0	818.2	156.76	6.220		
19,600.0	10,575.0	20,664.1	11,550.0	97.1	97.0	-179.98	-9,778.4	898.5	975.0	816.8	158.24	6.162		
19,700.0	10,575.0	20,764.1	11,550.0	98.0	97.9	-179.98	-9,878.4	899.1	975.0	815.3	159.72	6.104		
19,800.0	10,575.0	20,864.1	11,550.0	99.0	98.9	-179.98	-9,978.4	899.8	975.0	813.8	161.21	6.048		
19,900.0	10,575.0	20,964.1	11,550.0	99.9	99.8	-179.98	-10,078.4	900.4	975.0	812.3	162.69	5.993		
20,000.0	10,575.0	21,064.1	11,550.0	100.9	100.8	-179.98	-10,178.4	901.1	975.0	810.8	164.18	5.939		
20,100.0	10,575.0	21,164.1	11,550.0	101.8	101.7	-179.99	-10,278.4	901.7	975.0	809.3	165.67	5.885		
20,200.0	10,575.0	21,264.1	11,550.0	102.8	102.7	-179.99	-10,378.4	902.4	975.0	807.8	167.16	5.833		
20,300.0	10,575.0	21,364.1	11,550.0	103.7	103.6	-179.99	-10,478.4	903.1	975.0	806.3	168.65	5.781		
20,400.0	10,575.0	21,464.1	11,550.0	104.7	104.6	-179.99	-10,578.4	903.7	975.0	804.9	170.14	5.730		
20,500.0	10,575.0	21,564.1	11,550.0	105.6	105.5	-179.99	-10,678.4	904.4	975.0	803.4	171.64	5.681		
20,600.0	10,575.0	21,664.1	11,550.0	106.6	106.5	-179.99	-10,778.4	905.0	975.0	801.9	173.13	5.632		
20,700.0	10,575.0	21,764.1	11,550.0	107.5	107.4	-179.99	-10,878.4	905.7	975.0	800.4	174.63	5.583		
20,800.0	10,575.0	21,864.1	11,550.0	108.5	108.4	-179.99	-10,978.4	906.4	975.0	798.9	176.12	5.536		
20,900.0	10,575.0	21,964.1	11,550.0	109.5	109.3	-179.99	-11,078.4	907.0	975.0	797.4	177.62	5.489		
21,000.0	10,575.0	22,064.1	11,550.0	110.4	110.3	-179.99	-11,178.4	907.7	975.0	795.9	179.12	5.443		
21,100.0	10,575.0	22,164.1	11,550.0	111.4	111.2	-179.99	-11,278.4	908.3	975.0	794.4	180.61	5.398		
21,200.0	10,575.0	22,264.1	11,550.0	112.3	112.2	-179.99	-11,378.4	909.0	975.0	792.9	182.11	5.354		
21,300.0	10,575.0	22,364.1	11,550.0	113.3	113.2	-179.99	-11,478.4	909.6	975.0	791.4	183.61	5.310		
21,400.0	10,575.0	22,464.1	11,550.0	114.2	114.1	-179.99	-11,578.4	910.3	975.0	789.9	185.12	5.267		
21,500.0	10,575.0	22,564.1	11,550.0	115.2	115.1	-179.99	-11,678.4	911.0	975.0	788.4	186.62	5.225		
21,600.0	10,575.0	22,664.1	11,550.0	116.1	116.0	-179.99	-11,778.3	911.6	975.0	786.9	188.12	5.183		
21,700.0	10,575.0	22,764.1	11,550.0	117.1	117.0	-179.99	-11,878.3	912.3	975.0	785.4	189.62	5.142		
21,800.0	10,575.0	22,864.1	11,550.0	118.0	117.9	-179.99	-11,978.3	912.9	975.0	783.9	191.13	5.101		
21,900.0	10,575.0	22,964.1	11,550.0	119.0	118.9	-179.99	-12,078.3	913.6	975.0	782.4	192.63	5.061		
22,000.0	10,575.0	23,064.1	11,550.0	120.0	119.8	-179.99	-12,178.3	914.3	975.0	780.9	194.14	5.022		
22,100.0	10,575.0	23,164.1	11,550.0	120.9	120.8	-179.99	-12,278.3	914.9	975.0	779.4	195.64	4.984		
22,200.0	10,575.0	23,264.1	11,550.0	121.9	121.8	-179.99	-12,378.3	915.6	975.0	777.9	197.15	4.945		
22,300.0	10,575.0	23,364.1	11,550.0	122.8	122.7	-179.99	-12,478.3	916.2	975.0	776.3	198.66	4.908		
22,400.0	10,575.0	23,464.1	11,550.0	123.8	123.7	-179.99	-12,578.3	916.9	975.0	774.8	200.17	4.871		
22,500.0	10,575.0	23,564.1	11,550.0	124.7	124.6	-179.99	-12,678.3	917.5	975.0	773.3	201.67	4.835		
22,600.0	10,575.0	23,664.1	11,550.0	125.7	125.6	-179.99	-12,778.3	918.2	975.0	771.8	203.18	4.799		
22,700.0	10,575.0	23,764.1	11,550.0	126.7	126.6	-179.99	-12,878.3	918.9	975.0	770.3	204.69	4.763		
22,800.0	10,575.0	23,864.1	11,550.0	127.6	127.5	-179.99	-12,978.3	919.5	975.0	768.8	206.20	4.728		
22,900.0	10,575.0	23,964.1	11,550.0	128.6	128.5	-179.99	-13,078.3	920.2	975.0	767.3	207.71	4.694		
23,000.0	10,575.0	24,064.1	11,550.0	129.5	129.4	-179.99	-13,178.3	920.8	975.0	765.8	209.23	4.660		
23,100.0	10,575.0	24,164.1	11,550.0	130.5	130.4	-179.99	-13,278.3	921.5	975.0	764.3	210.74	4.627		
23,200.0	10,575.0	24,264.1	11,550.0	131.5	131.4	-179.99	-13,378.3	922.1	975.0	762.8	212.25	4.594		
23,300.0	10,575.0	24,364.1	11,550.0	132.4	132.3	-179.99	-13,478.3	922.8	975.0	761.2	213.76	4.561		
23,400.0	10,575.0	24,464.1	11,550.0	133.4	133.3	-179.99	-13,578.3	923.5	975.0	759.7	215.28	4.529		
23,500.0	10,575.0	24,564.1	11,550.0	134.3	134.2	-179.99	-13,678.3	924.1	975.0	758.2	216.79	4.497		
23,600.0	10,575.0	24,664.1	11,550.0	135.3	135.2	-179.99	-13,778.3	924.8	975.0	756.7	218.31	4.466		
23,700.0	10,575.0	24,764.1	11,550.0	136.3	136.2	-179.99	-13,878.3	925.4	975.0	755.2	219.82	4.435		
23,800.0	10,575.0	24,864.1	11,550.0	137.2	137.1	-179.99	-13,978.3	926.1	975.0	753.7	221.34	4.405		

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TARHEEL_DONKEY POTROAST PROJECT - _DONKEY POTROAST FED COM 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
23,900.0	10,575.0	24,964.1	11,550.0	138.2	138.1	-179.99	-14,078.3	926.8	975.0	752.1	222.85	4.375	
24,000.0	10,575.0	25,064.1	11,550.0	139.2	139.0	-179.99	-14,178.3	927.4	975.0	750.6	224.37	4.346	
24,100.0	10,575.0	25,164.1	11,550.0	140.1	140.0	-180.00	-14,278.3	928.1	975.0	749.1	225.88	4.316	
24,200.0	10,575.0	25,264.1	11,550.0	141.1	141.0	-180.00	-14,378.3	928.7	975.0	747.6	227.40	4.288	
24,300.0	10,575.0	25,364.1	11,550.0	142.0	141.9	-180.00	-14,478.3	929.4	975.0	746.1	228.92	4.259	
24,400.0	10,575.0	25,464.1	11,550.0	143.0	142.9	-180.00	-14,578.3	930.0	975.0	744.6	230.44	4.231	
24,500.0	10,575.0	25,564.1	11,550.0	144.0	143.9	-180.00	-14,678.3	930.7	975.0	743.0	231.96	4.203	
24,600.0	10,575.0	25,664.1	11,550.0	144.9	144.8	-180.00	-14,778.3	931.4	975.0	741.5	233.47	4.176	
24,700.0	10,575.0	25,764.1	11,550.0	145.9	145.8	-180.00	-14,878.3	932.0	975.0	740.0	234.99	4.149	
24,800.0	10,575.0	25,864.1	11,550.0	146.9	146.7	-180.00	-14,978.3	932.7	975.0	738.5	236.51	4.122	
24,900.0	10,575.0	25,964.1	11,550.0	147.8	147.7	-180.00	-15,078.3	933.3	975.0	737.0	238.03	4.096	
25,000.0	10,575.0	26,064.1	11,550.0	148.8	148.7	-180.00	-15,178.3	934.0	975.0	735.4	239.55	4.070	
25,100.0	10,575.0	26,164.1	11,550.0	149.7	149.6	-180.00	-15,278.3	934.7	975.0	733.9	241.07	4.044	
25,200.0	10,575.0	26,264.1	11,550.0	150.7	150.6	-180.00	-15,378.3	935.3	975.0	732.4	242.60	4.019	
25,300.0	10,575.0	26,364.1	11,550.0	151.7	151.6	-180.00	-15,478.3	936.0	975.0	730.9	244.12	3.994	
25,400.0	10,575.0	26,464.1	11,550.0	152.6	152.5	-180.00	-15,578.3	936.6	975.0	729.4	245.64	3.969	
25,500.0	10,575.0	26,564.1	11,550.0	153.6	153.5	-180.00	-15,678.3	937.3	975.0	727.8	247.16	3.945	
25,600.0	10,575.0	26,664.1	11,550.0	154.6	154.5	-180.00	-15,778.3	937.9	975.0	726.3	248.68	3.921	
25,700.0	10,575.0	26,764.1	11,550.0	155.5	155.4	-180.00	-15,878.3	938.6	975.0	724.8	250.21	3.897	
25,800.0	10,575.0	26,864.1	11,550.0	156.5	156.4	-180.00	-15,978.3	939.3	975.0	723.3	251.73	3.873	
25,900.0	10,575.0	26,964.1	11,550.0	157.5	157.3	-180.00	-16,078.3	939.9	975.0	721.7	253.25	3.850	
26,000.0	10,575.0	27,064.1	11,550.0	158.4	158.3	-180.00	-16,178.3	940.6	975.0	720.2	254.78	3.827	
26,088.1	10,575.0	27,152.2	11,550.0	159.3	159.2	-180.00	-16,266.3	941.2	975.0	718.9	256.12	3.807	

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 _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3630.0usft (Original Well Ele

Offset Depths are relative to Offset Datum

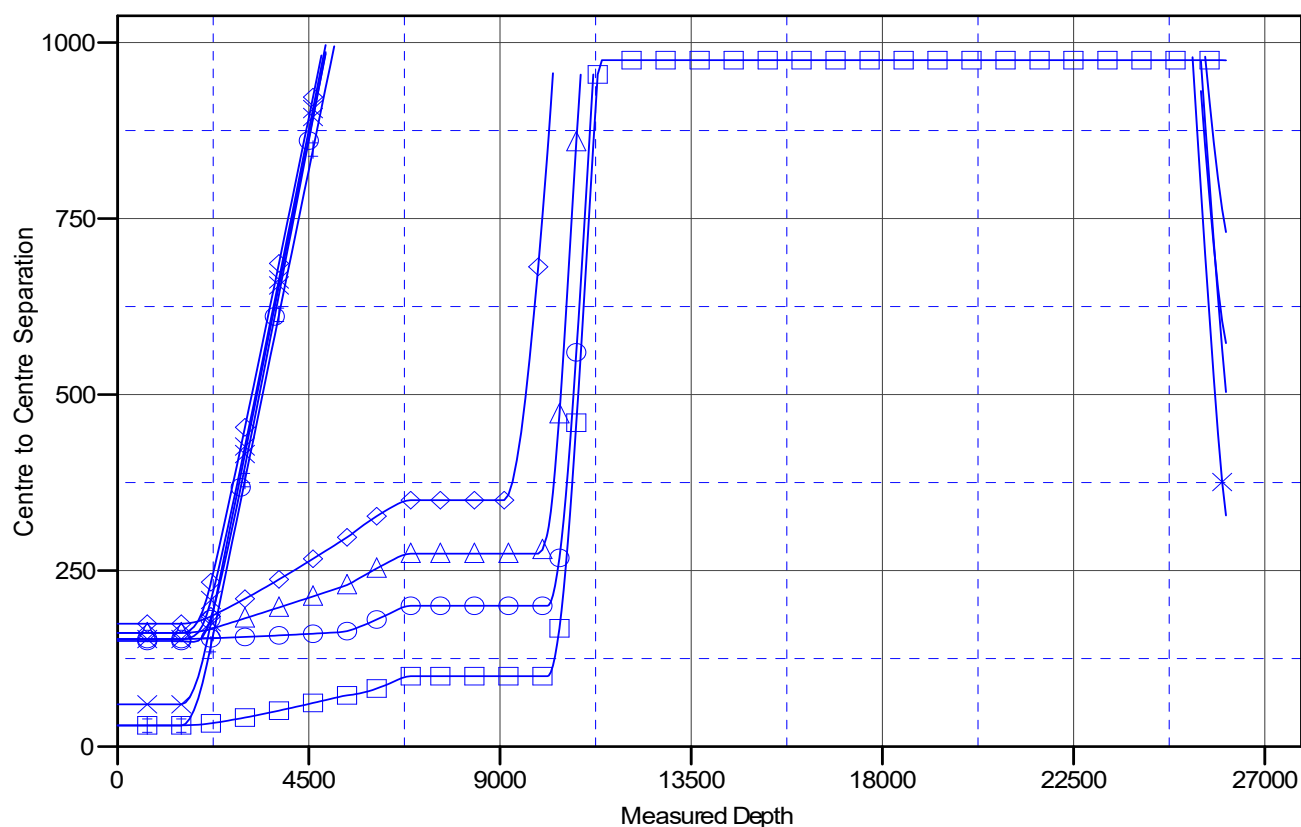
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _DONKEY POTROAST FED COM 502H - Slot DONK

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

Grid Convergence at Surface is: 0.37°

Ladder Plot



LEGEND

• _GRIZZOGAR FED COM 500H, OWB, PWP0 V0
• _GRIZZOGAR FED COM 500H, OWB, PWP0 V0
• _GRIZZOGAR FED COM 705H, OWB, PWP0 V0
• _GRIZZOGAR FED COM 705H, OWB, PWP0 V0
• _TARHEEL FED COM #702H, OWB, PWP0 V0

• *TARHEEL FED COM #701H, OWB, PWP0 V0
• *TARHEEL FED COM #601H, OWB, PWP0 V0
• *TARHEEL FED COM #501H, OWB, PWP0 V0
• *TARHEEL FED COM #502H, OWB, PWP0 V0
• *TARHEEL FED COM #402H, OWB, PWP0 V0

• _DONKEY POTROAST FED COM 501H, OWB, PWP0 V0
• _DONKEY POTROAST FED COM 701H, OWB, PWP0 V0
• _DONKEY POTROAST FED COM 702H, OWB, PWP0 V0

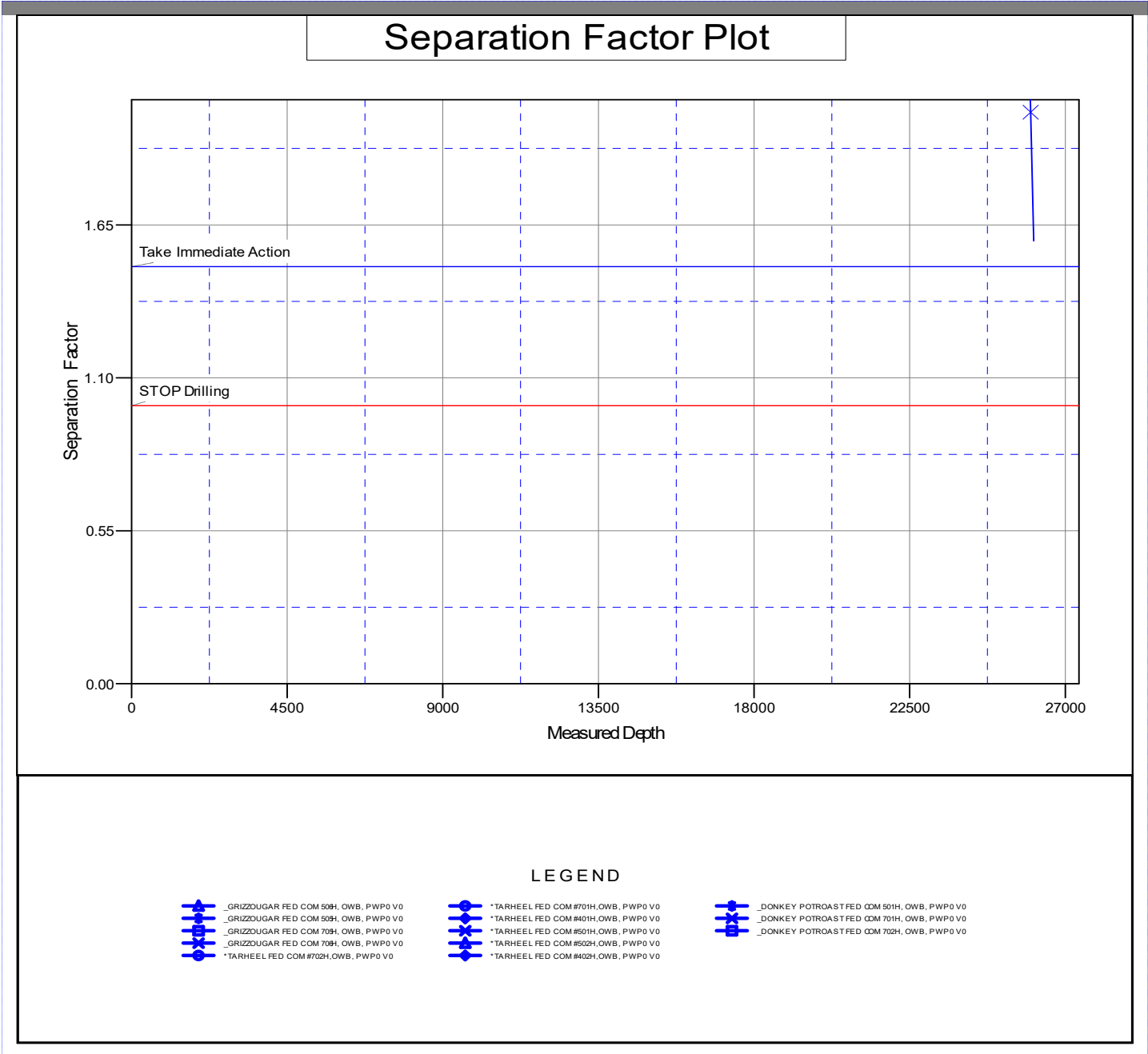
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _DONKEY POTROAST FED COM 502H - Slot DONKEY POTROAST #502H
Project:	ZEUS_NME	TVD Reference:	WELL @ 3630.0usft (Original Well Elev)
Reference Site:	TARHEEL_DONKEY POTROAST PROJECT	MD Reference:	WELL @ 3630.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_DONKEY POTROAST FED COM 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3630.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _DONKEY POTROAST FED COM 502H - Slot DONK
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.37°

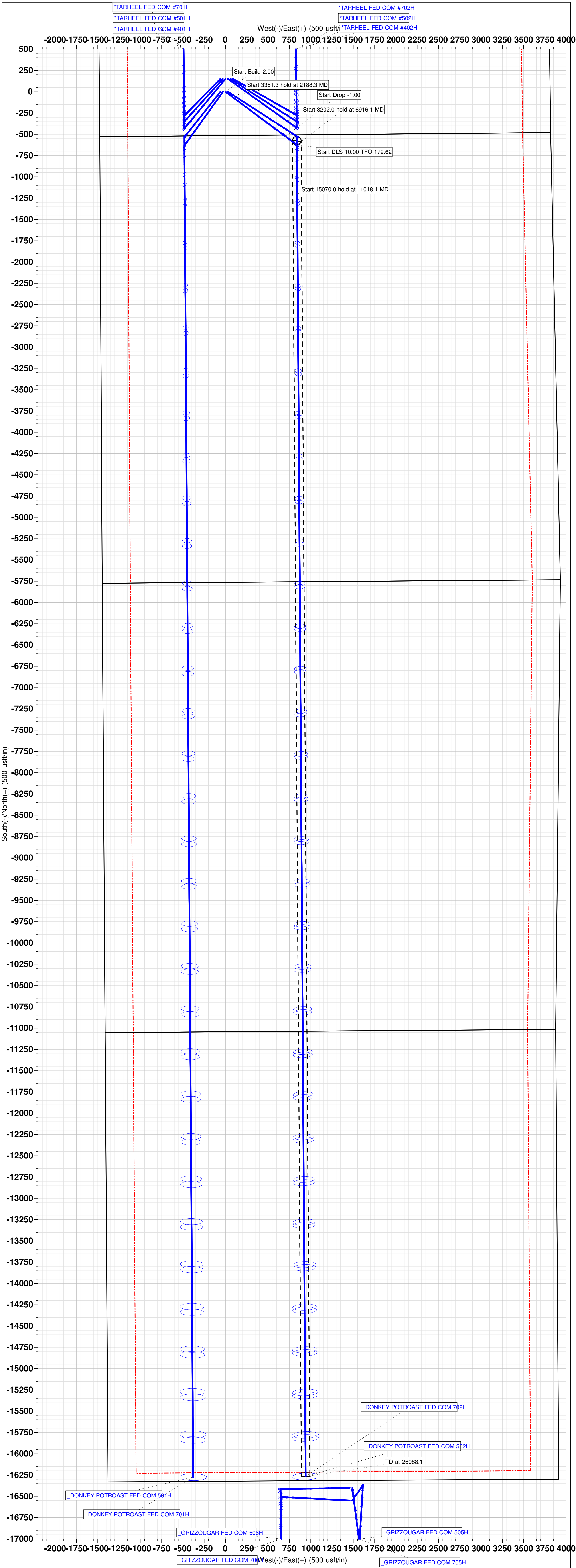
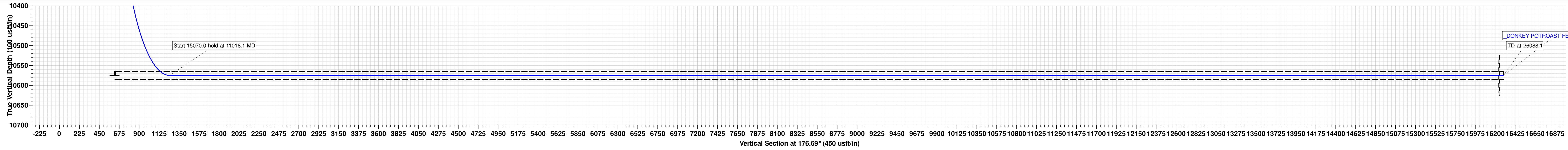
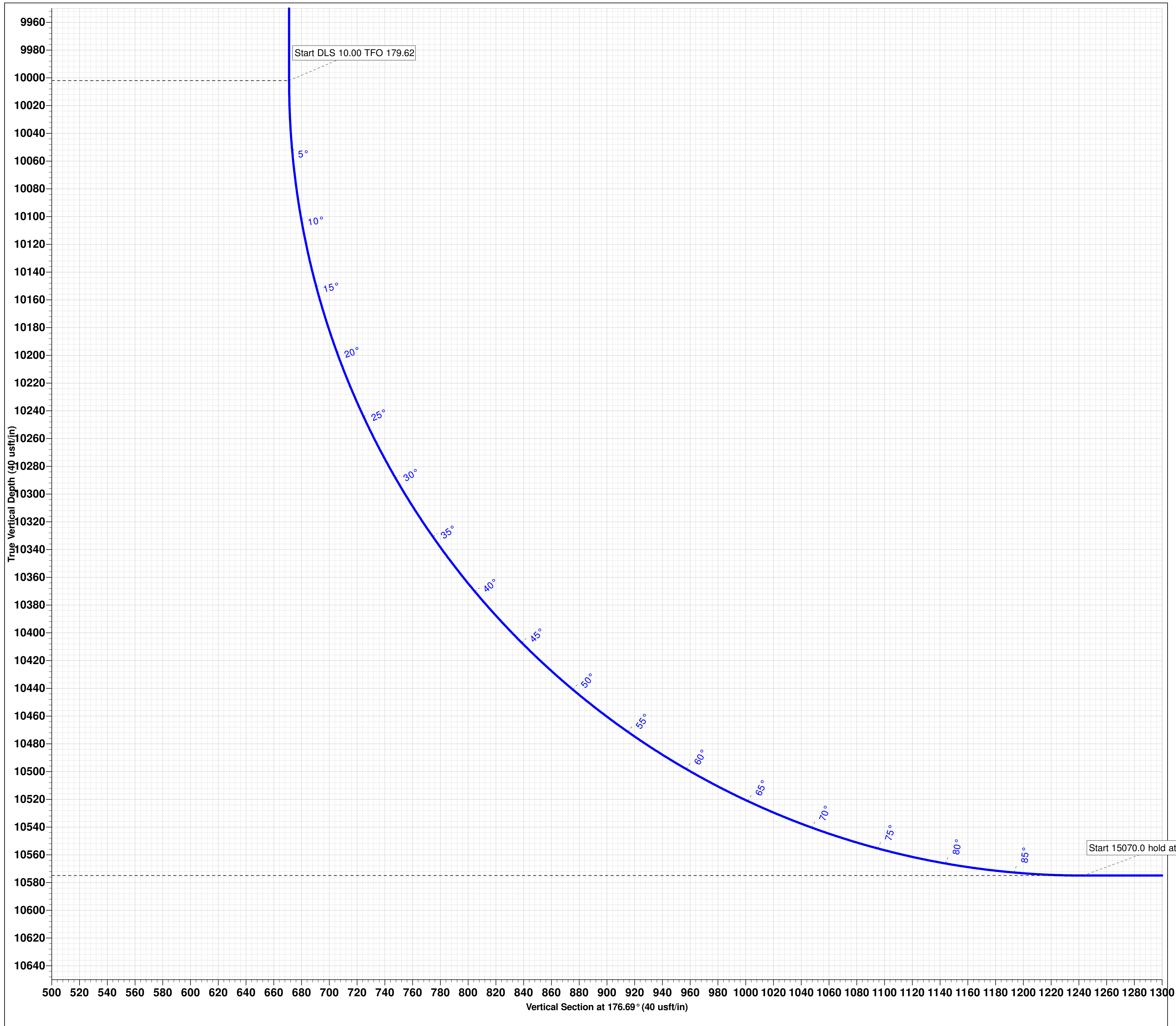
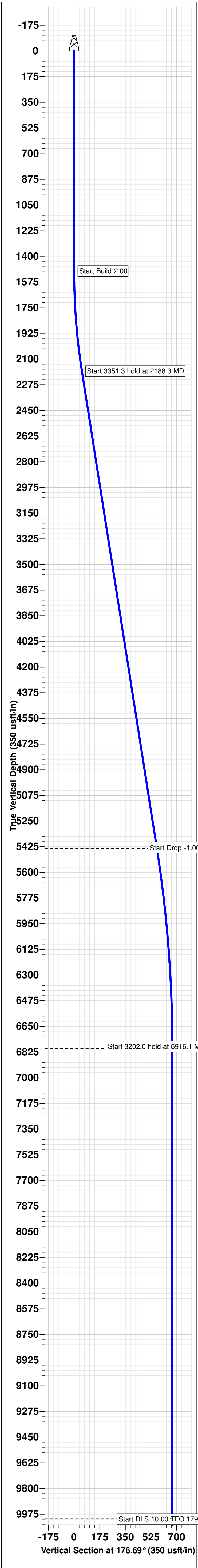




Project: ZEUS_NME
Site: TARHEEL_DONKEY POTROAST PROJECT
Well: DONKEY POTROAST FED COM 502H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
2188.3	13.77	126.67	2181.7	-49.1	66.0	2.00	126.67	52.9
5539.5	13.77	126.67	5436.7	-525.4	705.6	0.00	0.00	565.3
6916.1	0.00	0.00	6800.0	-623.7	837.5	1.00	180.00	671.0
10118.1	0.00	0.00	10002.0	-623.7	837.5	0.00	0.00	671.0
11018.1	90.00	179.62	10575.0	-1196.6	841.3	10.00	179.62	1243.2
26088.1	90.00	179.62	10575.0	-16266.3	941.2	0.00	0.00	16293.5



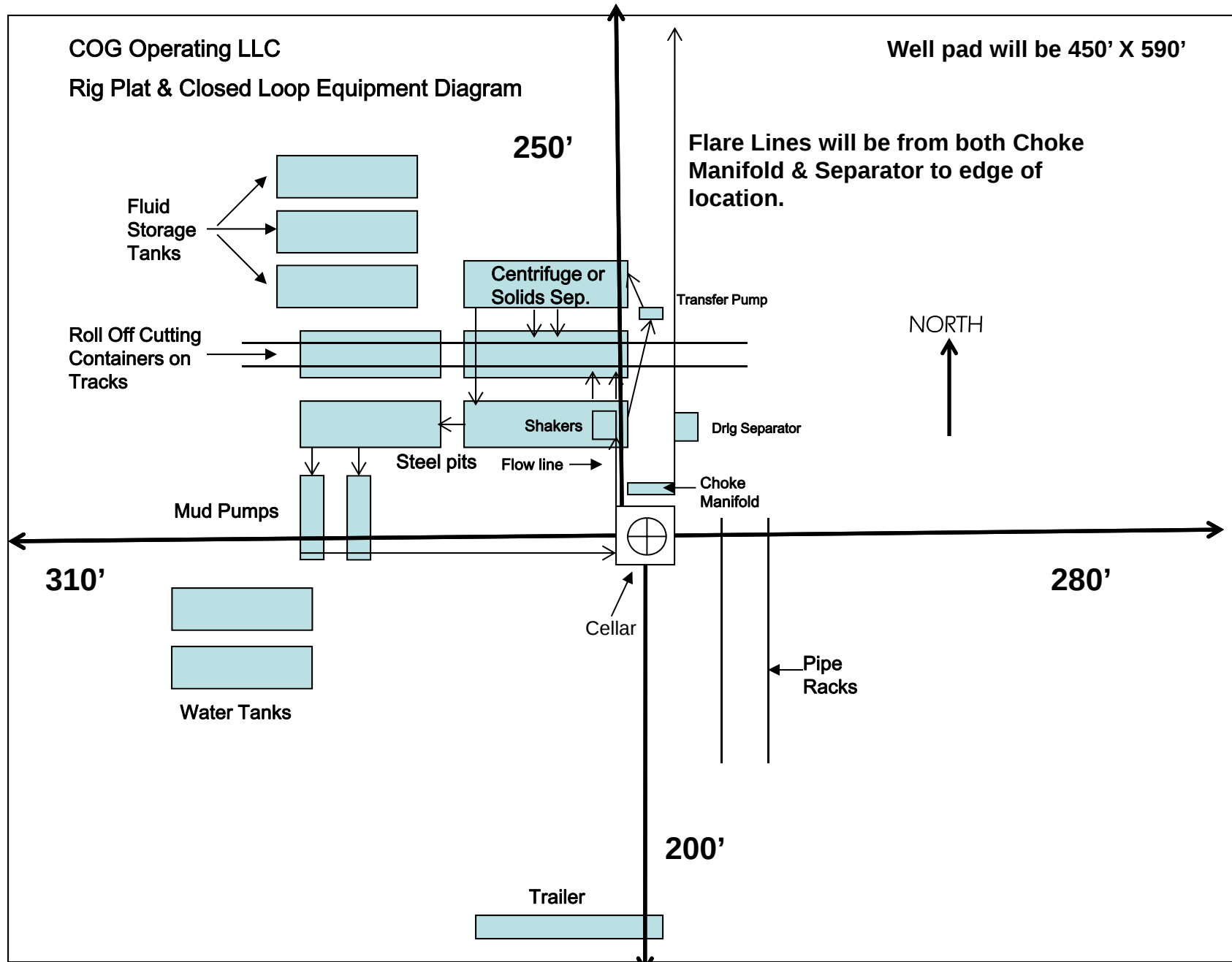


Exhibit 1

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

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: 229137

Date: 08/26/2024

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
Donkey Potroast Federal Com 501H	30-025-	N-15-20S-33E	480 FSL & 1455 FWL	± 1687	± 1510	± 4527
Donkey Potroast Federal Com 502H	30-025-	N-15-20S-33E	480 FSL & 1485 FWL	± 1687	± 1510	± 4527
Donkey Potroast Federal Com 701H	30-025-	N-15-20S-33E	480 FSL & 1425 FWL	± 1680	± 2071	± 4785
Donkey Potroast Federal Com 702H	30-025-	N-15-20S-33E	480 FSL & 1515 FWL	± 1680	± 2071	± 4785

IV. Central Delivery Point Name: 22 C CTB NENE 22-20S-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
Donkey Potroast Federal Com	Pending	± 06/01/2025	± 25 days from spud	TBD	TBD	TBD
501H, 502H, 701H, 702H,						

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: 08/26/2024
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

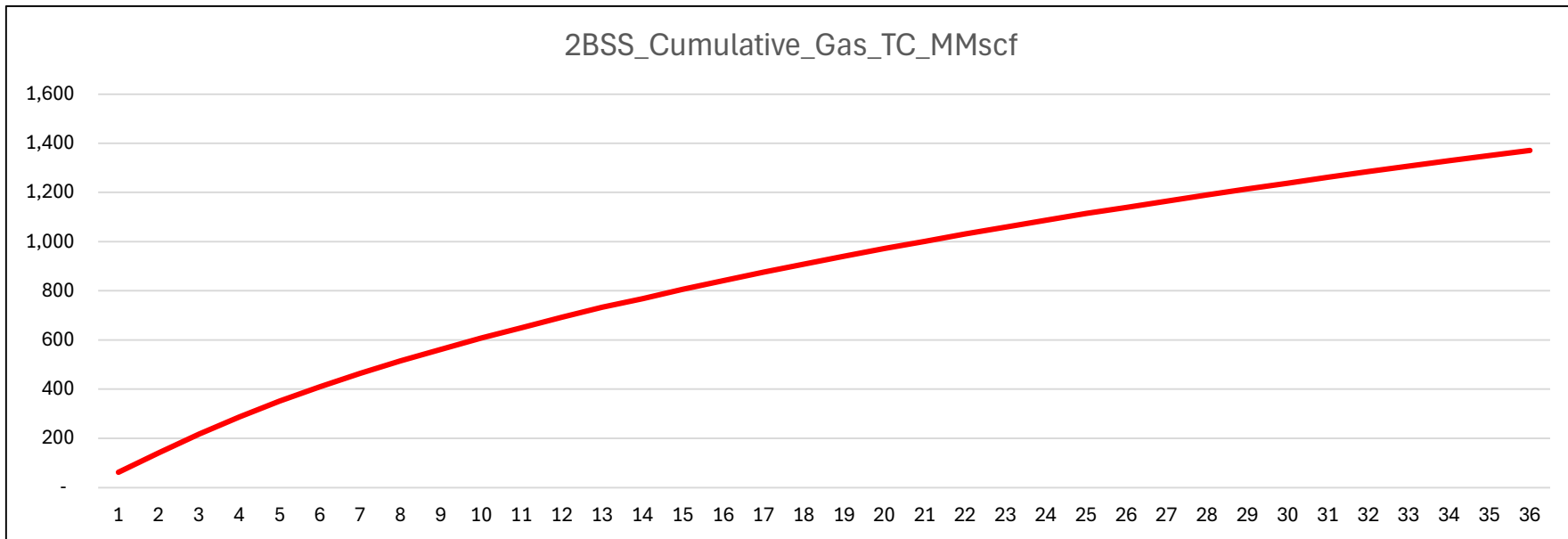
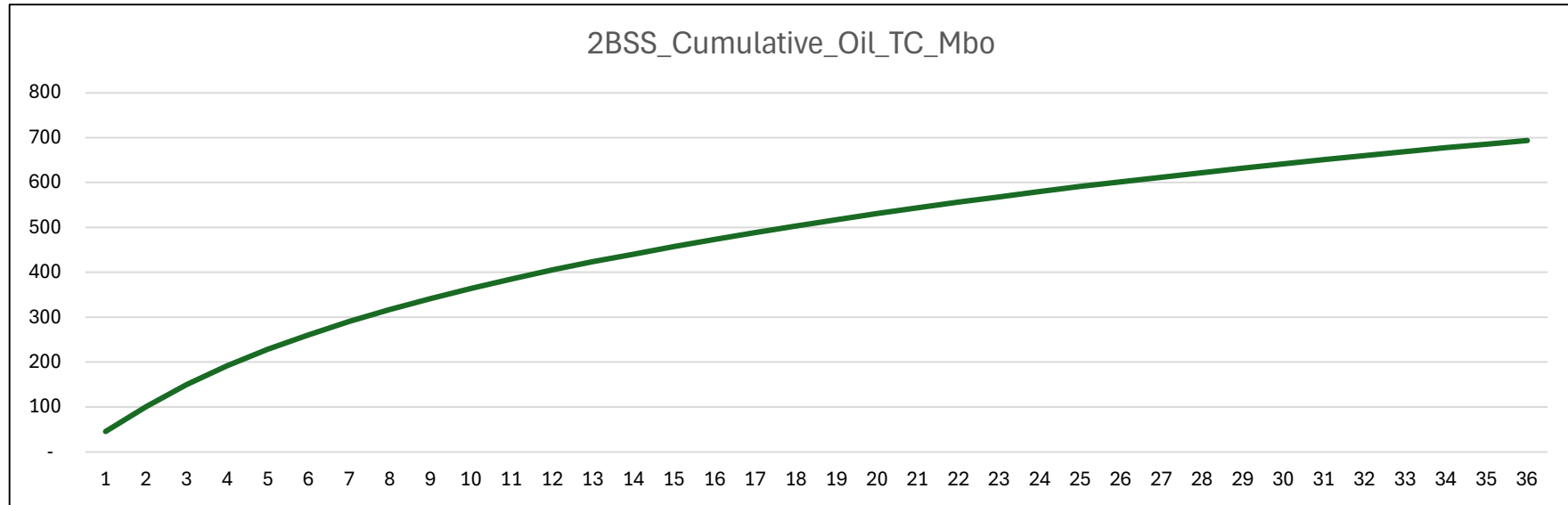
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

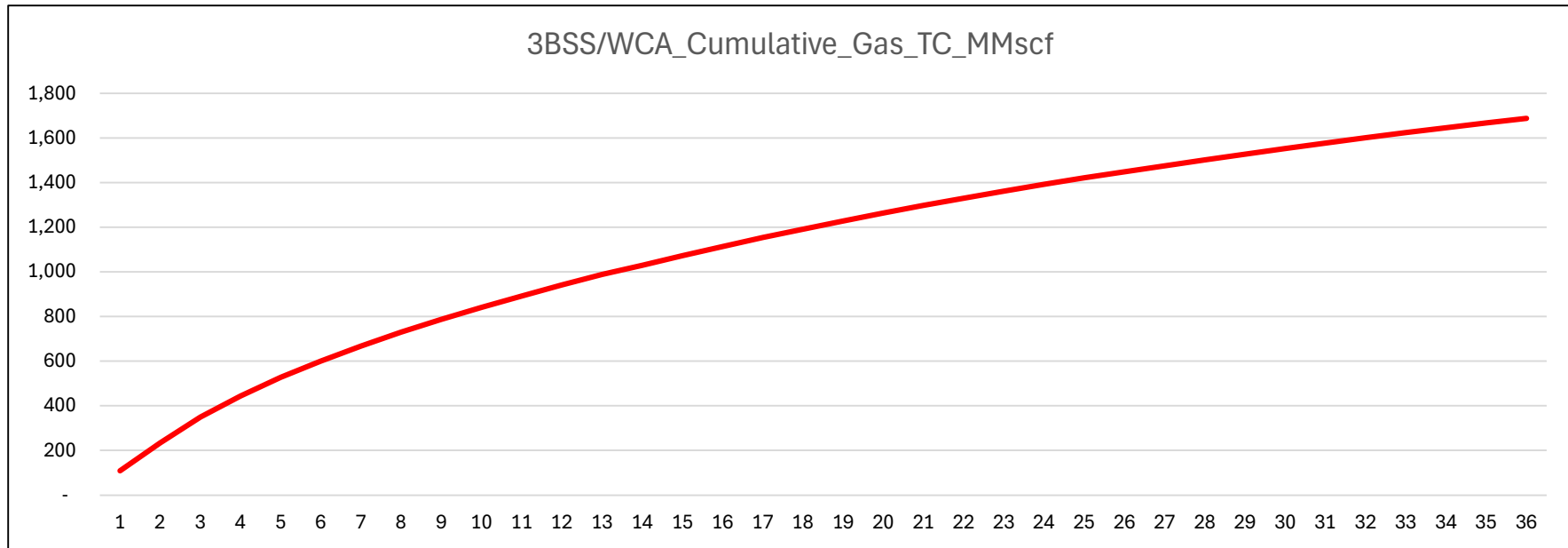
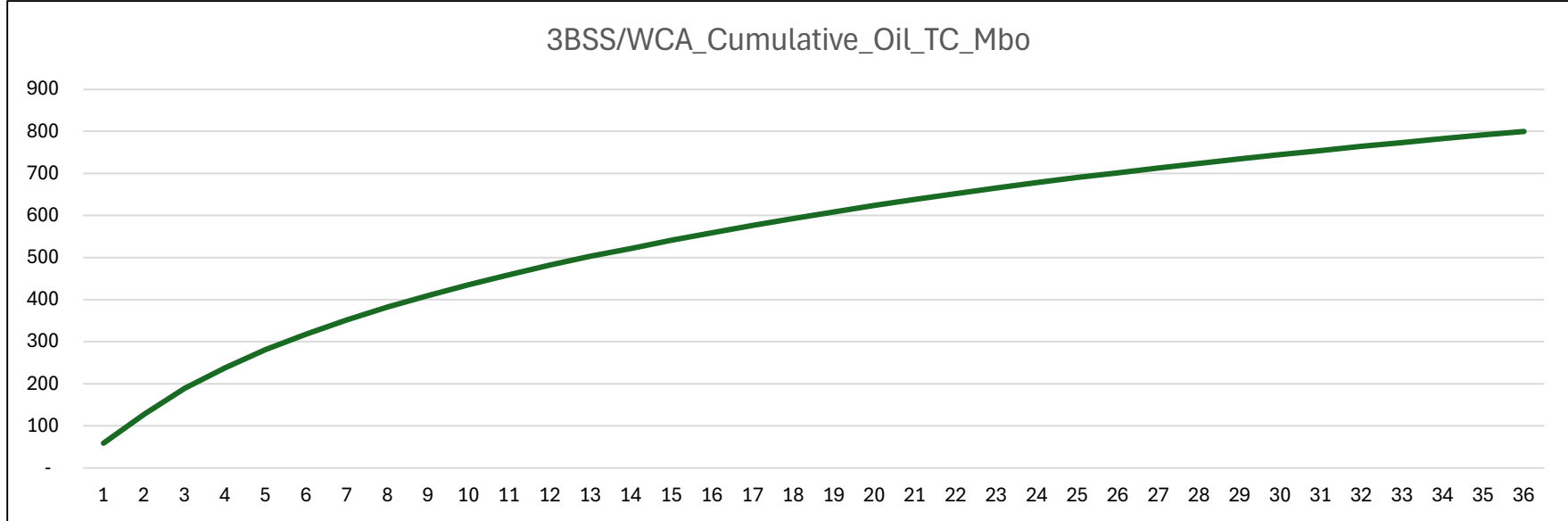
Per § 3162.3-1 Drilling applications and plans. Part J:

- (1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.
 - a. See attached NMOCD – Natural Gas Management Plan
- (4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.
 - a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

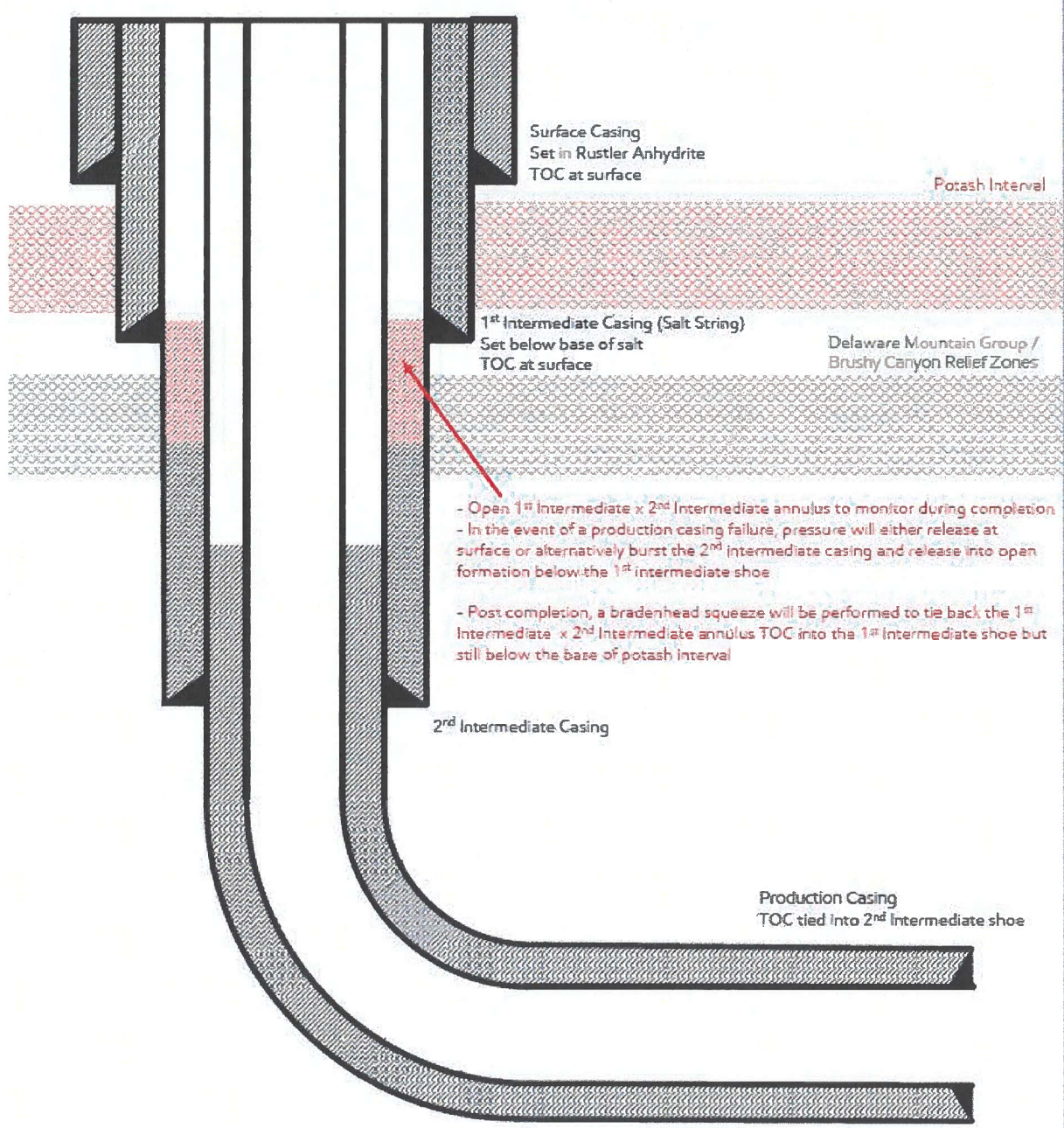
Anticipated Production Decline Curve



Anticipated Production Decline Curve



4-String Design – Open 1st Int x 2nd Int Annulus (ICP 2 below relief zone)



[Figure D] 4 String – Uncemented annulus between 1st and 2nd Intermediate casing strings

ConocoPhillips is aware of R111Q order update and proposed well complies with the requirements in the order

Uses above figure from R111Q as design

All casing ran will be new that meets API standards

Fluids will be diverted away from the salt interval via the open 1st intermediate x 2nd intermediate annulus in case of production casing failure and the annulus will be monitored during frac

As in above schematic, Intermediate 2 cement and production cement will not be brought to surface (0% excess on intermediate 2 with TOC 1000' below previous shoe, 10% excess on production with enough to tie back 1000' into previous casing)

Completions will Bradenhead 1st intermediate x 2nd intermediate annulus within 180 days of frac tying back at minimum 500' into previous casing but not above Marker Bed 126

No anticollision risks < 1.5 SF will be present in salt interval

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	DONKEY POTROAST FED COM 502H
SURFACE HOLE FOOTAGE:	480'S & 1485'/W
BOTTOM HOLE FOOTAGE:	50'S & 2320'/W
LOCATION:	Section 15, T.20 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

H ₂ S	☐ No	☒ Yes
Potash / WIPP	☐ None ☐ Secretary ☒ R-111-Q ☐ Open Annulus	☐ WIPP
	5-String Design: Open 2nd Int x 3rd Int Annulus (ICP 2 below Relief Zone)	
Cave / Karst	☒ Low ☐ Medium ☐ High ☐ Critical	
Wellhead	☐ Conventional ☒ Multibowl ☐ Both ☐ Diverter	
Cementing	☐ Primary Squeeze ☐ Cont. Squeeze ☒ EchoMeter ☐ DV Tool	
Special Req	☒ Capitan Reef ☐ Water Disposal ☒ COM ☐ Unit	
Waste Prev.	☐ Self-Certification ☒ Waste Min. Plan ☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose ☒ Casing Clearance ☐ Pilot Hole ☒ Break Testing	
	☒ Five-String ☐ Offline Cementing ☒ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **20** inch surface casing shall be set at approximately **1493 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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.
- **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The **13-3/8** inch intermediate 1 casing shall be set at approximately **3500 feet per BLM Geologist**. The minimum required fill of cement behind the **13-3/8** inch intermediate 1 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 - **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. Intermediate 2 should be set prior to entering Delaware group to facilitate monitoring during hydraulic fracturing, and post-frac bradenhead cementing. The **9-5/8** inch intermediate 2 casing shall be set at approximately **5135 feet**. The minimum required fill of cement behind the **9-5/8** inch intermediate 2 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 - **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**
4. The minimum required fill of cement behind the **7-5/8** inch intermediate 3 casing is:

(Primary + Post Frac Bradenhead):

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate 2 x Intermediate 3 annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days**.

Operator has proposed to pump down **intermediate 2 x intermediate 3** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2/intermediate 3 casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- **After bradenhead mentioned above Cement should tie-back 500 feet or 50 feet on top of the Capitan Reef, whichever is closer to surface into the previous casing but not higher than USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

5. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- **Cement should tie-back 500 feet into the previous casing but not higher than USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

- **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

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 **20** inch 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 3500 (70% Working Pressure) 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

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)

Contact Petroleum Engineering Inspection Staff:

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
 (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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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-Q 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 **43 CFR 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), 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).
 - ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an

independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 **43 CFR 3172**.

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.

JS 11/20/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 450253

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 450253
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/9/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/9/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	5/3/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	5/3/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	5/3/2025
matthew.gomez	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.	5/3/2025
matthew.gomez	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.	5/3/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/3/2025
matthew.gomez	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	5/3/2025
matthew.gomez	Brine water shall not be used in the Capitan Reef. Only fresh water shall be utilized until the Capitan Reef is cased and cemented.	5/3/2025
matthew.gomez	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	5/3/2025