Sundry Print Reports 06/17/2024

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: REDTAIL FEDERAL COM Well Location: T23S / R32E / SEC 2 /

LOT 2 / 32.34037 / -103.643469

County or Parish/State: LEA /

NM

Well Number: 703H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM77062 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552722 **Operator:** COG OPERATING LLC

Notice of Intent

Sundry ID: 2788704

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/07/2024 Time Sundry Submitted: 07:56

Date proposed operation will begin: 05/07/2024

Procedure Description: COG Operating LLC, respectfully requests approval for the following changes to the original approved APD. BHL Change: From: 50' FSL & 1650' FEL Section 11. T23S. R32E. To: 50' FSL & 2210' FEL Section 14. T23S. R32E. C102 Attached. Drilling Changes: Redtail Federal Com 703H BHL will change to 28,014ft MD. Directional Plan and AC Report attached. Break Test: COG Operating LLC, requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM. Bradenhead: COG Operating requests permission to do a Bradenhead Cement job for the associated well to this sundry. This previously approved procedure is detailed as attached. COG Operating also requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

NOI Attachments

Procedure Description

COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20240507100552.pdf

Redtail_Federal_Com_703H_Updated_C102_20240507100550.pdf

COP_BOP_Break_Testing_Documentation_6_07_23_20240507075524.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_AC_RPT_20240507074618.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_WP_20240507074618.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_PLAN_RPT_20240507074617.pdf

well Name: REDTAIL FEDERAL COM Well Location: T23S / R32E / SEC 2 /

LOT 2 / 32.34037 / -103.643469

County or Parish/State: LEAN 2 of

NM

Well Number: 703H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM77062 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552722 Operator: COG OPERATING LLC

Conditions of Approval

Additional

REDTAIL_FEDERAL_COM_703H___COA_20240611135713.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES Signed on: MAY 07, 2024 10:09 AM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTON State: TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera

Street Address: 2208 West Main Street

City: Artesia State: NM Zip: 88210

Phone: (575)748-6940

Email address: gerald.a.herrera@conocophillips.com

BLM Point of Contact

Signature: Keith Immatty

BLM POC Name: KEITH P IMMATTY **BLM POC Title:** ENGINEER

BLM POC Phone: 5759884722 **BLM POC Email Address:** KIMMATTY@BLM.GOV

Disposition: Approved **Disposition Date:** 06/11/2024

isposition. Approved Disposition Date: 00/11/202

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BUR	EAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM77062
Do not use this t	OTICES AND REPORTS ON Vorm for proposals to drill or to Use Form 3160-3 (APD) for suc	o re-enter an	NNINMY/062 6. If Indian, Allottee or Tribe Name 7. If Unit of CA/Agreement, Name and/or No. 8. Well Name and No. REDTAIL FEDERAL COM/703H 9. API Well No. 3002552722 10. Field and Pool or Exploratory Area DIAMONDTAIL/WOLFCAMP 11. Country or Parish, State LEA/NM PROTICE, REPORT OR OTHER DATA OF ACTION Production (Start/Resume) Water Shut-Off Reclamation Well Integrity Recomplete Other Temporarily Abandon Water Disposal rting date of any proposed work and approximate duration thereof. If ured and true vertical depths of all pertinent markers and zones. Attach aguired subsequent reports must be filed within 30 days following on in a new interval, a Form 3160-4 must be filed once testing has been on, have been completed and the operator has detennined that the site all approved APD. BOSTOTICE USE ER Date O6/11/2024	
	TRIPLICATE - Other instructions on pag		7. If Unit of CA/Agre	eement, Name and/or No.
1. Type of Well	, ,	<u> </u>		
Oil Well Gas W	<u>—</u>		8. Well Name and No	REDTAIL FEDERAL COM/703H
2. Name of Operator COG OPERATI	NG LLC	ON WELLS or to re-enter an or such proposals. 7. If Unit of CA/Agreement, Name and/or No. 8. Well Name and No. REDTAIL FEDERAL COM/703H 9. API Well No. 3002552722 10. Field and Pool or Exploratory Area DIAMONDTAIL/WOLFCAMP 11. Country or Parish, State LEA/NM 10. INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION Deepen Production (Start/Resume) Water Shut-Off Hydraulic Fracturing Reclamation Well Integrity New Construction Recomplete Other Plug and Abandon Temporarily Abandon Plug Back Water Disposal stails, including estimated starting date of any proposed work and approximate duration thereof. If the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach to on file with BLM/BIA. Required subsequent reports must be filed within 30 days following ele completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been rements, including reclamation, have been completed and the operator has detennined that the site wing changes to the original approved APD. REDTAIL FEDERAL OR STATE OFICE USE ENGINEER 06/11/2024		
3a. Address 600 West Illinois Ave, N		'	10. Field and Pool or	Exploratory Area
4. Location of Well (Footage, Sec., T., K SEC 2/T23S/R32E/NMP	,M., or Survey Description)			ı, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NO	 TICE, REPORT OR OT	THER DATA
TYPE OF SUBMISSION		TYPE OF A	CTION	
✓ Notice of Intent		pen Pr	roduction (Start/Resume)	
Subsequent Report			-	Other
Final Abandonment Notice	Convert to Injection Plug	Back W	ater Disposal	
completion of the involved operation completed. Final Abandonment No is ready for final inspection.)	ons. If the operation results in a multiple contices must be filed only after all requirementally requests approval for the following continuous and the following continuous and the following continuous and for the following contin	mpletion or recompletion in ts, including reclamation, h	a new interval, a Form a lave been completed and	3160-4 must be filed once testing has been
Continued on page 3 additiona	I information			
14. I hereby certify that the foregoing is MAYTE REYES / Ph: (281) 293-10	true and correct. Name (Printed/Typed) 00	Regulatory Analy	st	
(Electronic Submission Signature	n)	Date	05/07/2	2024
	THE SPACE FOR FED	ERAL OR STATE C	FICE USE	
Approved by				
KEITH P IMMATTY / Ph: (575) 988	3-4722 / Approved			
	ned. Approval of this notice does not warrar equitable title to those rights in the subject led duct operations thereon.		D	
Title 19 II S C Section 1001 and Title 4	3 U.S.C. Section 1212, make it a crime for a	ny nerson knowinaly and w	villfully to make to any c	department or agency of the United States

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Additional Remarks

COG Operating LLC, requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

Bradenhead:

COG Operating requests permission to do a Bradenhead Cement job for the associated well to this sundry. This previously approved procedure is detailed as attached. COG Operating also requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in

accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

Location of Well

0. SHL: LOT 2 / 220 FNL / 2035 FEL / TWSP: 23S / RANGE: 32E / SECTION: 2 / LAT: 32.34037 / LONG: -103.643469 (TVD: 0 feet, MD: 0 feet) PPP: LOT 2 / 100 FNL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 2 / LAT: 32.340704 / LONG: -103.642189 (TVD: 12388 feet, MD: 12460 feet) PPP: NWNE / 1 FNL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 11 / LAT: 32.3265 / LONG: -103.642202 (TVD: 12513 feet, MD: 17683 feet) BHL: SWSE / 50 FSL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 11 / LAT: 32.312108 / LONG: -103.642216 (TVD: 12513 feet, MD: 22782 feet)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FR., NM 87505
Phone: (505) 476-3460 Fax: (505) 478-3462

□ AMENDED REPORT

WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT
* * * * * * * * * * * * * * * * * * * *	TIO CITTOIN	71111	LICIVILLICI	DEDICHTON	

API Number 30-025-52722	Pool Code 17645	Pool Name Diamondtail;Wolfcamp			
Property Code	•	erty Name	Well Number		
329921		EDERAL COM	703H		
OGRID No.		ator Name	Elevation		
229137		RATING LLC	3737.0'		

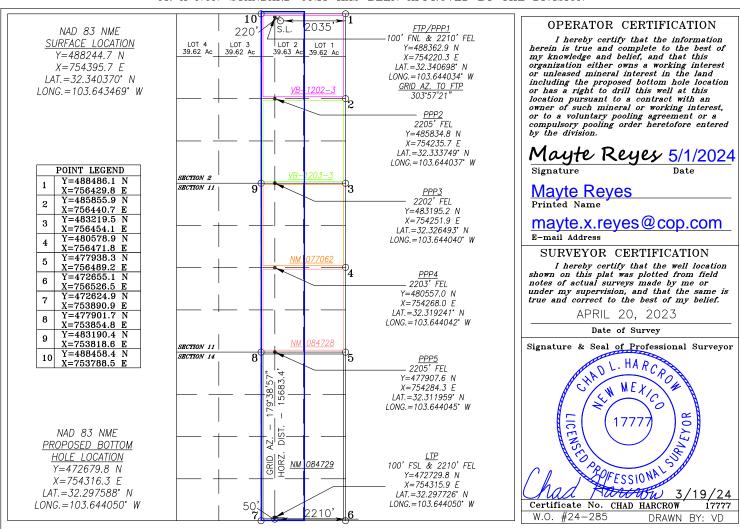
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	2	23-S	32-E		220	NORTH	2035	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot N).	Section	Townsh	nip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0		14	23-	-S	32-E		50	SOUTH	2210	EAST	LEA
Dedicated Acres Joint or Infill Consolidation Code		Code Or	der No.				•				
479.6	2										

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



BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

^{*}Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
 - Classification COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
 - Arrangement Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
 - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
 - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
 - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
 - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
 - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
 - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
 - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed
 per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve
 on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
 - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
 - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

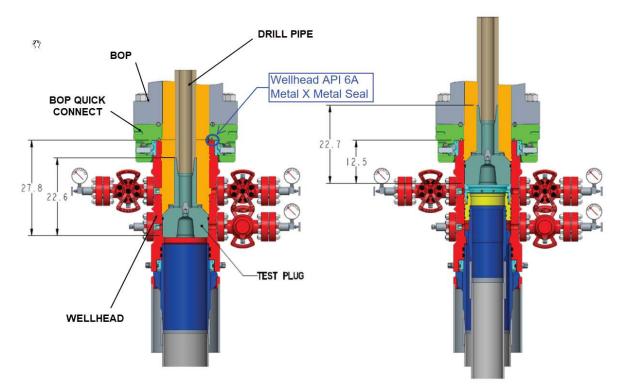


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

General Procedure

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut in.
- 5. Notify tool pusher/company representative.
- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

Casing Program:

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidily Description
and a	465	15.6	1.196	1st Stage: Halliburton Halcem (TOC @ Brushy Canyon)
11,945				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000	14.8	1.519	2nd Stage (Bradenhead squeeze): Halliburton Thixotropic Halcem + 5% Cal-Seal 60, .6% HR-800 + 10% Salt + 3% Microbond
9-7/8"				
	400	14.8	1.332	Top out Slurry: Halliburton Halcem (TOC @ surface)

COG Production LLC requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. After the bradenhead squeeze, 50 sacks of the 14.8 ppg top out slurry will be pumped followed by shutting down and waiting on cement (WOC) 2 hours. After 2 hours, if necessary, a top out consisting of 350 sacks of Halliburton's Halcem at 14.8 ppg (1.332 yld) will be executed as a contingency. When washing valves, 2 bbls of water will be utilized. If the valves still contain cement, washing will occur in 1 bbl increments up to a maximum of 5 bbls.

COG Production will run a cement bond log (CBL) after the cement job is performed to evaluate the quality of the cement job.

Wellhead & Offline Cementing:

COG Production LLC respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "Offline Cement Intermediate Operational Procedure"

COG Production LLC believes that the combination of drilling fluid inside the casing, the abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Bradenhead Cementing Procedure for Intermediate Casing

- 1. R/U cement head and test lines
- 2. Pump first stage conventionally down the 7-5/8" intermediate casing
 - a. 15.6 ppg slurry with TOC @ the Brushy Canyon
- 3. Displace with drilling fluid and bump plug
- 4. Bump at 500 psi over FCP, hold 5 mins.
- 5. Bleed back to cement truck to check floats
- 6. Rig up on 10-3/4" x 7-5/8" annulus by lining up to pump down both valves.
- 7. Establish injection rate and displace annulus with FW
- 8. Pump bradenhead squeeze with 14.8 ppg thixotropic slurry
 - a. Limit pressure to 1500 psi (10-3/4" surf csg test)
- 9. After pumping 14.8 ppg thixotropic slurry, pump 50 sacks of 14.8 ppg top out slurry to flush valves of thixotropic cement.
- 10. WOC 2 hours
- 11. Top out with 350 sacks of 14.8 ppg top out slurry. If more cement is necessary, note in report and notify BLM.
- 12. Displace cement with fresh water and clear valves. Start with 2 bbls of fresh water. If more water is necessary, 1 bbl increments will be used to a maximum of 5 bbls.
- 13. Shut down and monitor the shut-in pressure on the 10-3/4" x 7-5/8" annulus.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land intermediate casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
 - b. If time from landing mandrel hanger to skidding/walking rig off well exceeds 8 hours, BLM will be notified.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug/BPV and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.

- a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on BOP handler.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and tail cement has reached 500 psi
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing, if needed.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 2.
- 10. Remove TA Plug/BPV from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Streamflo)
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated displacement, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure)</u> <u>portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

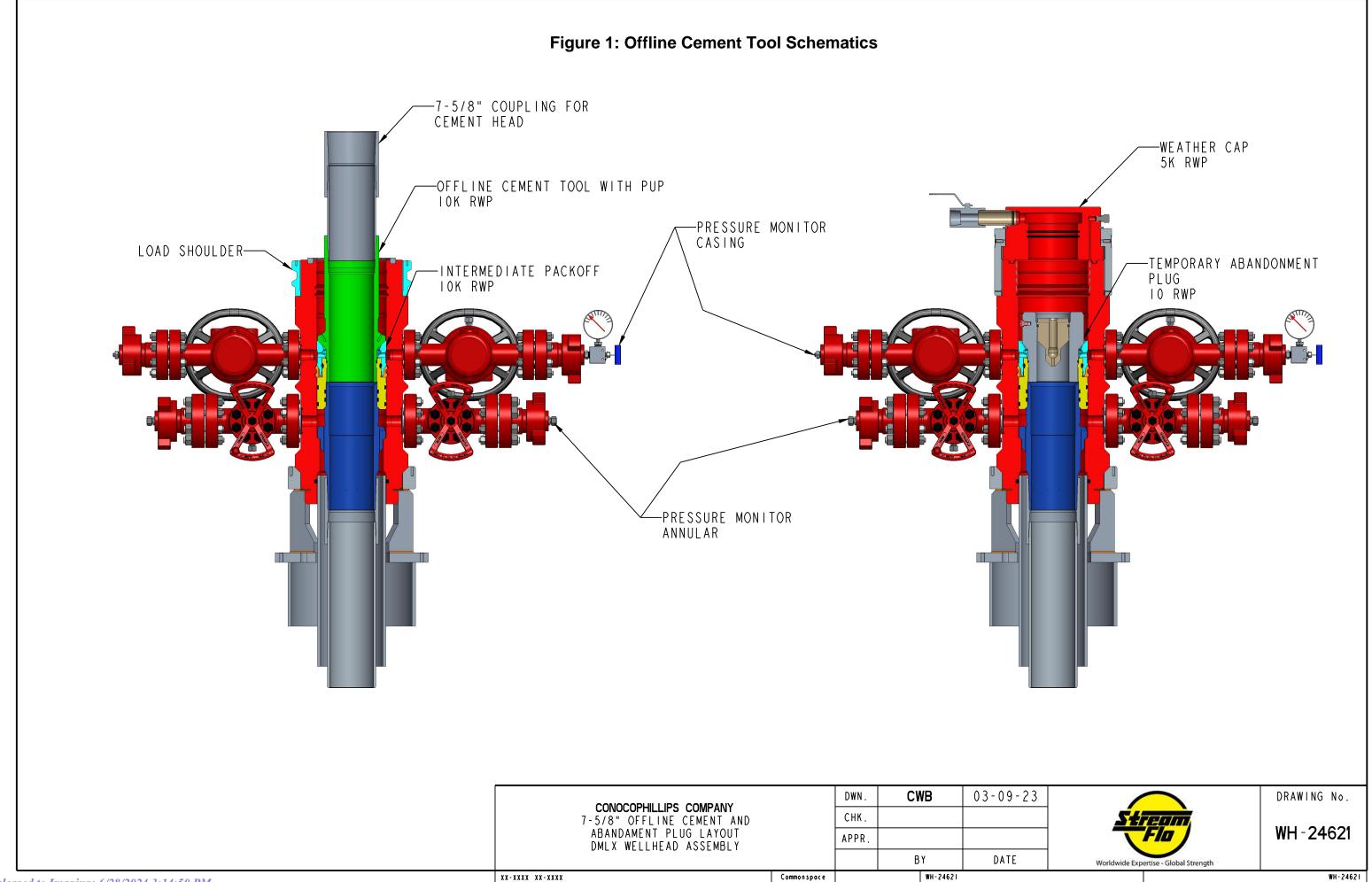
- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.

- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

Received by OCD: 6/27/2024 12:32:46 PM



Pits Gas Shakers **Buster** Cement return line Rig Choke Cement head Choke Manifold Cement Truck

Figure 2: Back Yard Rig Up

^{*}All lines rated to 10M working pressure

^{**}Cement head rated to 7.5M working pressure

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST REDTAIL FED COM PROJECT REDTAIL FEDERAL COM 703H

OWB

Plan: PWP2

Standard Planning Report

30 April, 2024

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Map Zone:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

Minimum Curvature

Project LEA COUNTY SOUTHEAST

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum: Mean Sea Level

Site REDTAIL FED COM PROJECT

 Site Position:
 Northing:
 483,131.39 usft
 Latitude:
 32° 19' 34.919 N

 From:
 Map
 Easting:
 712,636.84 usft
 Longitude:
 103° 38' 41.834 W

Position Uncertainty: 3.0 usft Slot Radius: 13-3/16 "

Well REDTAIL FEDERAL COM 703H **Well Position** +N/-S 0.0 usft Northing: 488,184.80 usft Latitude: 32° 20' 24.889 N +E/-W 0.0 usft Easting: 713,212.70 usft Longitude: 103° 38' 34.744 W **Position Uncertainty** 3.0 usft Wellhead Elevation: usft **Ground Level:** 3,737.0 usft 0.37 **Grid Convergence:**

OWB Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) BGGM2023 47,459.81788520 6/1/2024 6.37 59.96

Design PWP2 Audit Notes: Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 180.29 0.0 0.0 0.0

Plan	Survey Tool Prog	gram	Date 4/30/2024		
	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0	PWP2 (OWB)	r.5 SDI_KPR_WL_NS-CT	
				SDI Keeper Wireline Gyrocom	ţ
2	1,500.0	12,048.2	PWP2 (OWB)	r.5 MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-S	it
3	12,063.3	28,014.2	PWP2 (OWB)	r.5 MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-S	it

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

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	
1,825.0	6.50	314.00	1,824.3	12.8	-13.2	2.00	2.00	0.00	314.00	
3,494.4	6.50	314.00	3,483.0	144.1	-149.2	0.00	0.00	0.00	0.00	
4,144.4	0.00	0.00	4,131.6	169.7	-175.7	1.00	-1.00	0.00	180.00	
11,952.8	0.00	0.00	11,940.0	169.7	-175.7	0.00	0.00	0.00	0.00	
12,852.9	90.01	179.65	12,513.0	-403.4	-172.2	10.00	10.00	19.96	179.65	
28,014.4	90.01	179.65	12,510.0	-15,564.6	-79.8	0.00	0.00	0.00	0.00	

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

nned 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	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0		0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0		0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0		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	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0		0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0		0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0		0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0		0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build									
1,600.0		314.00	1,600.0	1.2	-1.3	-1.2	2.00	2.00	0.00
1,700.0		314.00	1,699.8	4.8	-5.0	-4.8	2.00	2.00	0.00
1,800.0		314.00	1,799.5	10.9	-11.3	-10.8	2.00	2.00	0.00
1,825.0	6.50	314.00	1,824.3	12.8	-13.2	-12.7	2.00	2.00	0.00
Start 1669	.4 hold at 1825.0 N	/ID							
1,900.0	6.50	314.00	1,898.8	18.7	-19.4	-18.6	0.00	0.00	0.00
2,000.0		314.00	1,998.2	26.6	-27.5	-26.4	0.00	0.00	0.00
2,100.0		314.00	2,097.5	34.4	-35.6	-34.2	0.00	0.00	0.00
2,200.0		314.00	2,196.9	42.3	-43.8	-42.1	0.00	0.00	0.00
2,300.0		314.00	2,296.2	50.1	-51.9	-49.9	0.00	0.00	0.00
0.400.0	0.50	244.00	0.205.0	58.0	-60.1	F7 7	0.00	0.00	0.00
2,400.0 2,500.0		314.00 314.00	2,395.6 2,495.0	65.9	-60.1 -68.2	-57.7 -65.5	0.00 0.00	0.00 0.00	0.00 0.00
2,600.0		314.00	2,594.3	73.7	-76.4	-03.3 -73.3	0.00	0.00	0.00
2,700.0		314.00	2,693.7	81.6	-84.5	-73.3 -81.2	0.00	0.00	0.00
2,800.0		314.00	2,793.0	89.5	-92.6	-89.0	0.00	0.00	0.00
2,900.0		314.00	2,892.4	97.3	-100.8	-96.8	0.00	0.00	0.00
3,000.0		314.00	2,991.8	105.2	-108.9	-104.6	0.00	0.00	0.00
3,100.0		314.00	3,091.1	113.1	-117.1	-112.5	0.00	0.00	0.00
3,200.0		314.00	3,190.5	120.9	-125.2	-120.3	0.00	0.00	0.00
3,300.0	6.50	314.00	3,289.8	128.8	-133.4	-128.1	0.00	0.00	0.00
3,400.0		314.00	3,389.2	136.6	-141.5	-135.9	0.00	0.00	0.00
3,494.4	6.50	314.00	3,483.0	144.1	-149.2	-143.3	0.00	0.00	0.00
Start Drop									
3,500.0		314.00	3,488.5	144.5	-149.6	-143.7	1.00	-1.00	0.00
3,600.0		314.00	3,588.0	151.7	-157.1	-150.9	1.00	-1.00	0.00
3,700.0	4.44	314.00	3,687.6	157.7	-163.3	-156.8	1.00	-1.00	0.00
3,800.0	3.44	314.00	3,787.4	162.5	-168.2	-161.6	1.00	-1.00	0.00
3,900.0		314.00	3,887.3	166.0	-171.9	-165.2	1.00	-1.00	0.00
4,000.0		314.00	3,987.2	168.4	-174.4	-167.5	1.00	-1.00	0.00
4,100.0		314.00	4,087.2	169.5	-175.6	-168.6	1.00	-1.00	0.00
4,112.8		314.00	4,100.0	169.6	-175.6	-168.7	1.00	-1.00	0.00
	703 TGT BOX 80X5								
4,144.4		0.00	4,131.6	169.7	-175.7	-168.8	1.00	-1.00	0.00
	.4 hold at 4144.4 N								
4,200.0		0.00	4,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,300.0		0.00	4,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,400.0	0.00	0.00	4,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

ign:	FVVFZ								
nned 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)
4,500.0	0.00	0.00	4,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,600.0	0.00	0.00	4,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,887.2 5,087.2	169.7	-175.7 175.7	-168.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
8,100.0 8,200.0	0.00 0.00	0.00 0.00	8,087.2 8,187.2	169.7 169.7	-175.7 -175.7	-168.8 -168.8	0.00 0.00	0.00 0.00	0.00 0.00
8,300.0	0.00	0.00	8,187.2	169.7	-175.7 -175.7	-168.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,387.2	169.7	-175.7 -175.7	-168.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
			,						
8,600.0	0.00	0.00	8,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00

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Design: PWP2

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Survey Calculation Method:

North Reference:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

sigii.	FVVFZ								
lanned Survey									
Measured Depth	l Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,900	.0 0.00	0.00	9,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,000		0.00	9,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,000	.0 0.00	0.00	9,901.2	109.7	-175.7	-100.0	0.00	0.00	0.00
10,100	.0 0.00	0.00	10,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,200	.0 0.00	0.00	10,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,300	.0 0.00	0.00	10,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,400	.0 0.00	0.00	10,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,500	.0 0.00	0.00	10,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,600	.0 0.00	0.00	10,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,700		0.00	10,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,800		0.00	10,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
10,900		0.00	10,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,000		0.00	10,987.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,100		0.00	11,087.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,200		0.00	11,187.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,300		0.00	11,287.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,400		0.00	11,387.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,500	.0 0.00	0.00	11,487.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,600	.0 0.00	0.00	11,587.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,700		0.00	11,687.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,800		0.00	11,787.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,900		0.00	11,887.2	169.7	-175.7	-168.8	0.00	0.00	0.00
11,952		0.00	11,940.0	169.7	-175.7	-168.8	0.00	0.00	0.00
	S 10.00 TFO 179.65		,						
12,000		179.65	11,987.1	167.7	-175.7	-166.8	10.00	10.00	0.00
12,100		179.65	12,085.6	150.9	-175.6	-150.0	10.00	10.00	0.00
12,200		179.65	12,179.6	117.2	-175.4	-116.3	10.00	10.00	0.00
12,300		179.65	12,266.3	67.7	-175.1	-66.8	10.00	10.00	0.00
12,400	.0 44.72	179.65	12,343.1	3.8	-174.7	-2.9	10.00	10.00	0.00
12,420	.7 46.79	179.65	12,357.6	-11.0	-174.6	11.9	10.00	10.00	0.00
FTP RED	DTAIL FED COM 703	ЗН							
12,500		179.65	12,407.7	-72.4	-174.2	73.2	10.00	10.00	0.00
12,600		179.65	12,458.1	-158.6	-173.7	159.5	10.00	10.00	0.00
12,700		179.65	12,492.7	-252.3	-173.1	253.2	10.00	10.00	0.00
12,800		179.65	12,510.5	-350.5	-172.5	351.4	10.00	10.00	0.00
12,852		179.65	12,513.0	-403.4	-172.2	404.3	10.00	10.00	0.00
	61.5 hold at 12852.9		10 - 10 -	,					
12,900		179.65	12,512.9	-450.5	-171.9	451.3	0.00	0.00	0.00
13,000		179.65	12,512.9	-550.5	-171.3	551.3	0.00	0.00	0.00
13,100		179.65	12,512.9	-650.5	-170.7	651.3	0.00	0.00	0.00
13,200	.0 90.01	179.65	12,512.9	-750.5	-170.1	751.3	0.00	0.00	0.00
13,300	.0 90.01	179.65	12,512.9	-850.5	-169.5	851.3	0.00	0.00	0.00
13,400		179.65	12,512.9	-950.5	-168.9	951.3	0.00	0.00	0.00
13,500		179.65	12,512.8	-1,050.5	-168.2	1,051.3	0.00	0.00	0.00
13,600		179.65	12,512.8	-1,150.5	-167.6	1,151.3	0.00	0.00	0.00
13,700		179.65	12,512.8	-1,250.5	-167.0	1,251.3	0.00	0.00	0.00
13,800		179.65	12,512.8	-1,350.5	-166.4	1,351.3	0.00	0.00	0.00
13,900		179.65	12,512.8	-1,450.4	-165.8	1,451.3	0.00	0.00	0.00
14,000		179.65	12,512.7	-1,550.4	-165.2	1,551.3	0.00	0.00	0.00
14,100		179.65	12,512.7	-1,650.4	-164.6	1,651.3	0.00	0.00	0.00
14,200	.0 90.01	179.65	12,512.7	-1,750.4	-164.0	1,751.3	0.00	0.00	0.00
14,300	.0 90.01	179.65	12,512.7	-1,850.4	-163.4	1,851.3	0.00	0.00	0.00
14,400		179.65	12,512.7	-1,950.4	-162.8	1,951.2	0.00	0.00	0.00
14,500	.0 90.01	179.65	12,512.6	-2,050.4	-162.2	2,051.2	0.00	0.00	0.00

Planning Report

MD Reference:

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference: TVD Reference:

North Reference: Survey Calculation Method: Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

esign:	PWP2								
lanned 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)
14,600.0	90.01	179.65	12,512.6	-2,150.4	-161.5	2,151.2	0.00	0.00	0.00
14,700.0	90.01	179.65	12,512.6	-2,250.4	-160.9	2,251.2	0.00	0.00	0.00
14,800.0	90.01	179.65	12,512.6	-2,350.4	-160.3	2,351.2	0.00	0.00	0.00
14,900.0	90.01	179.65	12,512.6	-2,450.4	-159.7	2,451.2	0.00	0.00	0.00
15,000.0	90.01	179.65	12,512.5	-2,550.4	-159.1	2,551.2	0.00	0.00	0.00
15,100.0	90.01	179.65	12,512.5	-2,650.4	-158.5	2,651.2	0.00	0.00	0.00
15,200.0	90.01	179.65	12,512.5	-2,750.4	-157.9	2,751.2	0.00	0.00	0.00
15,300.0	90.01	179.65	12,512.5	-2,850.4	-157.3	2,851.2	0.00	0.00	0.00
15,400.0	90.01	179.65	12,512.5	-2,950.4	-156.7	2,951.2	0.00	0.00	0.00
15,500.0	90.01	179.65	12,512.4	-3,050.4	-156.1	3,051.2	0.00	0.00	0.00
15,600.0	90.01	179.65	12,512.4	-3,150.4	-155.5	3,151.2	0.00	0.00	0.00
15,700.0	90.01	179.65	12,512.4	-3,250.4	-154.8	3,251.2	0.00	0.00	0.00
15,800.0	90.01	179.65	12,512.4	-3,350.4	-154.2	3,351.2	0.00	0.00	0.00
15,900.0	90.01	179.65	12,512.4	-3,450.4	-153.6	3,451.2	0.00	0.00	0.00
16,000.0	90.01	179.65	12,512.3	-3,550.4	-153.0	3,551.1	0.00	0.00	0.00
16,100.0	90.01	179.65 170.65	12,512.3 12,512.3	-3,650.4	-152.4	3,651.1	0.00	0.00 0.00	0.00
16,200.0	90.01	179.65		-3,750.4	-151.8	3,751.1	0.00		0.00
16,300.0	90.01	179.65	12,512.3	-3,850.4	-151.2	3,851.1	0.00	0.00	0.00
16,400.0	90.01	179.65	12,512.3	-3,950.4	-150.6	3,951.1	0.00	0.00	0.00
16,500.0	90.01	179.65	12,512.2	-4,050.4	-150.0	4,051.1	0.00	0.00	0.00
16,600.0	90.01	179.65	12,512.2	-4,150.4 4,250.4	-149.4	4,151.1	0.00	0.00	0.00
16,700.0	90.01	179.65	12,512.2	-4,250.4	-148.7	4,251.1	0.00	0.00	0.00
16,800.0	90.01	179.65	12,512.2	-4,350.4	-148.1	4,351.1	0.00	0.00	0.00
16,900.0	90.01	179.65	12,512.2	-4,450.4	-147.5	4,451.1	0.00	0.00	0.00
17,000.0	90.01	179.65 179.65	12,512.1 12,512.1	-4,550.4	-146.9	4,551.1	0.00	0.00	0.00
17,100.0 17,200.0	90.01 90.01	179.65	12,512.1	-4,650.4 -4,750.4	-146.3 -145.7	4,651.1 4,751.1	0.00 0.00	0.00 0.00	0.00 0.00
17,300.0	90.01	179.65	12,512.1	-4,850.4	-145.1	4,851.1	0.00	0.00	0.00
17,400.0	90.01	179.65	12,512.1	-4,950.4	-144.5	4,951.1	0.00	0.00	0.00
17,500.0	90.01	179.65	12,512.1	-5,050.4	-143.9	5,051.1	0.00	0.00	0.00
17,600.0	90.01	179.65	12,512.0	-5,150.4	-143.3	5,151.0	0.00	0.00	0.00
17,700.0	90.01	179.65	12,512.0	-5,250.4	-142.7	5,251.0	0.00	0.00	0.00
17,800.0	90.01	179.65	12,512.0	-5,350.4	-142.0	5,351.0	0.00	0.00	0.00
17,900.0	90.01	179.65	12,512.0	-5,450.4	-141.4	5,451.0	0.00	0.00	0.00
18,000.0	90.01	179.65	12,512.0	-5,550.4	-140.8	5,551.0	0.00	0.00	0.00
18,100.0	90.01	179.65	12,511.9	-5,650.4	-140.2	5,651.0	0.00	0.00	0.00
18,200.0	90.01	179.65	12,511.9	-5,750.4	-139.6	5,751.0	0.00	0.00	0.00
18,300.0	90.01	179.65	12,511.9	-5,850.4	-139.0	5,851.0	0.00	0.00	0.00
18,400.0	90.01	179.65	12,511.9	-5,950.4	-138.4	5,951.0	0.00	0.00	0.00
18,500.0	90.01	179.65	12,511.9	-6,050.4	-137.8	6,051.0	0.00	0.00	0.00
18,600.0 18,700.0	90.01 90.01	179.65 179.65	12,511.8 12,511.8	-6,150.4 -6,250.4	-137.2 -136.6	6,151.0 6,251.0	0.00 0.00	0.00 0.00	0.00 0.00
18,800.0	90.01	179.65	12,511.8	-6,350.4	-136.0	6,351.0	0.00	0.00	0.00
18,900.0 19,000.0	90.01	179.65	12,511.8 12,511.8	-6,450.4	-135.3	6,451.0	0.00	0.00	0.00
19,000.0	90.01 90.01	179.65 179.65	12,511.8	-6,550.4 -6,650.4	-134.7 -134.1	6,551.0 6,651.0	0.00 0.00	0.00 0.00	0.00 0.00
19,100.0	90.01	179.65	12,511.7	-6,750.4	-134.1	6,750.9	0.00	0.00	0.00
19,300.0 19,400.0	90.01 90.01	179.65 179.65	12,511.7 12,511.7	-6,850.3 -6,950.3	-132.9 -132.3	6,850.9 6,950.9	0.00 0.00	0.00 0.00	0.00 0.00
19,400.0	90.01	179.65	12,511.7	-6,950.3 -7,050.3	-132.3 -131.7	7,050.9	0.00	0.00	0.00
19,600.0	90.01	179.65	12,511.7	-7,050.3 -7,150.3	-131.7	7,050.9	0.00	0.00	0.00
19,700.0	90.01	179.65	12,511.6	-7,250.3	-130.5	7,150.5	0.00	0.00	0.00
19,800.0	90.01	179.65	12,511.6	-7,350.3	-129.9	7,350.9	0.00	0.00	0.00
19,800.0	90.01	179.65	12,511.6	-7,350.3 -7,450.3	-129.9 -129.2	7,350.9 7,450.9	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

200.g									
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,000.0	90.01	179.65	12,511.6	-7,550.3	-128.6	7,550.9	0.00	0.00	0.00
20,100.0	90.01	179.65	12,511.5	-7,650.3	-128.0	7,650.9	0.00	0.00	0.00
20,200.0	90.01	179.65	12,511.5	-7,750.3	-127.4	7,750.9	0.00	0.00	0.00
20,300.0	90.01	179.65	12,511.5	-7,850.3	-126.8	7,850.9	0.00	0.00	0.00
20,400.0	90.01	179.65	12,511.5	-7,950.3	-126.2	7,950.9	0.00	0.00	0.00
20,500.0	90.01	179.65	12,511.5	-8,050.3	-125.6	8,050.9	0.00	0.00	0.00
20,600.0	90.01	179.65	12,511.4	-8,150.3	-125.0	8,150.9	0.00	0.00	0.00
20,700.0	90.01	179.65	12,511.4	-8,250.3	-124.4	8,250.9	0.00	0.00	0.00
20,800.0	90.01	179.65	12,511.4	-8,350.3	-123.8	8,350.8	0.00	0.00	0.00
20,900.0	90.01	179.65	12,511.4	-8,450.3	-123.2	8,450.8	0.00	0.00	0.00
21,000.0	90.01	179.65	12,511.4	-8,550.3	-122.5	8,550.8	0.00	0.00	0.00
21,100.0	90.01	179.65	12,511.3	-8,650.3	-121.9	8,650.8	0.00	0.00	0.00
21,200.0	90.01	179.65	12,511.3	-8,750.3	-121.3	8,750.8	0.00	0.00	0.00
21,300.0	90.01	179.65	12,511.3	-8,850.3	-120.7	8,850.8	0.00	0.00	0.00
21,400.0	90.01	179.65	12,511.3	-8,950.3	-120.1	8,950.8	0.00	0.00	0.00
21,500.0	90.01	179.65	12,511.3	-9,050.3	-119.5	9,050.8	0.00	0.00	0.00
21,600.0	90.01	179.65	12,511.3	-9,150.3	-118.9	9,150.8	0.00	0.00	0.00
21,700.0	90.01	179.65	12,511.2	-9,250.3	-118.3	9,250.8	0.00	0.00	0.00
21,800.0	90.01	179.65	12,511.2	-9,350.3	-117.7	9,350.8	0.00	0.00	0.00
21,900.0	90.01	179.65	12,511.2	-9,450.3	-117.1	9,450.8	0.00	0.00	0.00
22,000.0	90.01	179.65	12,511.2	-9,550.3	-116.5	9,550.8	0.00	0.00	0.00
22,100.0	90.01	179.65	12,511.2	-9,650.3	-115.8	9,650.8	0.00	0.00 0.00	0.00 0.00
22,200.0	90.01	179.65	12,511.1	-9,750.3	-115.2	9,750.8	0.00		
22,300.0	90.01	179.65	12,511.1	-9,850.3	-114.6	9,850.8	0.00	0.00	0.00
22,400.0	90.01	179.65	12,511.1	-9,950.3	-114.0	9,950.7	0.00	0.00	0.00
22,500.0	90.01	179.65	12,511.1	-10,050.3	-113.4	10,050.7	0.00	0.00	0.00
22,600.0 22,700.0	90.01 90.01	179.65 179.65	12,511.1 12,511.0	-10,150.3 -10,250.3	-112.8 -112.2	10,150.7 10,250.7	0.00 0.00	0.00 0.00	0.00 0.00
22,800.0	90.01	179.65	12,511.0	-10,350.3	-111.6	10,350.7	0.00	0.00	0.00
22,900.0 23,000.0	90.01 90.01	179.65 179.65	12,511.0 12,511.0	-10,450.3 -10,550.3	-111.0 -110.4	10,450.7	0.00	0.00 0.00	0.00
23,000.0	90.01	179.65	12,511.0	-10,550.3	-110.4	10,550.7 10,650.7	0.00 0.00	0.00	0.00 0.00
23,200.0	90.01	179.65	12,511.0	-10,750.3	-109.1	10,030.7	0.00	0.00	0.00
•									
23,300.0	90.01	179.65	12,510.9	-10,850.3	-108.5	10,850.7	0.00	0.00	0.00
23,400.0 23,500.0	90.01 90.01	179.65 179.65	12,510.9 12,510.9	-10,950.3 -11,050.3	-107.9 -107.3	10,950.7 11,050.7	0.00 0.00	0.00 0.00	0.00 0.00
23,600.0	90.01	179.65	12,510.9	-11,050.3	-107.3	11,050.7	0.00	0.00	0.00
23,700.0	90.01	179.65	12,510.8	-11,250.3	-106.1	11,150.7	0.00	0.00	0.00
23,800.0 23,900.0	90.01 90.01	179.65 179.65	12,510.8 12,510.8	-11,350.3 -11,450.3	-105.5 -104.9	11,350.7 11,450.7	0.00 0.00	0.00 0.00	0.00 0.00
23,900.0	90.01	179.65	12,510.8	-11,450.3 -11,550.3	-104.9	11,450.7	0.00	0.00	0.00
24,100.0	90.01	179.65	12,510.8	-11,650.3	-103.7	11,650.6	0.00	0.00	0.00
24,200.0	90.01	179.65	12,510.7	-11,750.3	-103.0	11,750.6	0.00	0.00	0.00
24,300.0	90.01	179.65	12,510.7	-11,850.3	-102.4	11,850.6	0.00	0.00	0.00
24,300.0	90.01	179.65	12,510.7	-11,050.3 -11,950.3	-102.4	11,050.6	0.00	0.00	0.00
24,500.0	90.01	179.65	12,510.7	-12,050.3	-101.2	12,050.6	0.00	0.00	0.00
24,600.0	90.01	179.65	12,510.7	-12,150.3	-100.6	12,150.6	0.00	0.00	0.00
24,700.0	90.01	179.65	12,510.6	-12,250.2	-100.0	12,250.6	0.00	0.00	0.00
24,800.0	90.01	179.65	12,510.6	-12,350.2	-99.4	12,350.6	0.00	0.00	0.00
24,900.0	90.01	179.65	12,510.6	-12,450.2	-99. 4 -98.8	12,450.6	0.00	0.00	0.00
25,000.0	90.01	179.65	12,510.6	-12,550.2	-98.2	12,550.6	0.00	0.00	0.00
25,100.0	90.01	179.65	12,510.6	-12,650.2	-97.6	12,650.6	0.00	0.00	0.00
25,200.0					07.0	40.750.0	0.00	0.00	0.00
· ·	90.01	179.65	12,510.5	-12,750.2	-97.0	12,750.6	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB
Design: PWP2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

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)
25,400.0	90.01	179.65	12,510.5	-12,950.2	-95.7	12,950.6	0.00	0.00	0.00
25,500.0	90.01	179.65	12,510.5	-13,050.2	-95.1	13,050.5	0.00	0.00	0.00
25,600.0	90.01	179.65	12,510.5	-13,150.2	-94.5	13,150.5	0.00	0.00	0.00
25,700.0	90.01	179.65	12,510.5	-13,250.2	-93.9	13,250.5	0.00	0.00	0.00
25,800.0	90.01	179.65	12,510.4	-13,350.2	-93.3	13,350.5	0.00	0.00	0.00
25,900.0	90.01	179.65	12,510.4	-13,450.2	-92.7	13,450.5	0.00	0.00	0.00
26,000.0	90.01	179.65	12,510.4	-13,550.2	-92.1	13,550.5	0.00	0.00	0.00
26,100.0	90.01	179.65	12,510.4	-13,650.2	-91.5	13,650.5	0.00	0.00	0.00
26,200.0	90.01	179.65	12,510.4	-13,750.2	-90.9	13,750.5	0.00	0.00	0.00
26,300.0	90.01	179.65	12,510.3	-13,850.2	-90.2	13,850.5	0.00	0.00	0.00
26,400.0	90.01	179.65	12,510.3	-13,950.2	-89.6	13,950.5	0.00	0.00	0.00
26,500.0	90.01	179.65	12,510.3	-14,050.2	-89.0	14,050.5	0.00	0.00	0.00
26,600.0	90.01	179.65	12,510.3	-14,150.2	-88.4	14,150.5	0.00	0.00	0.00
26,700.0	90.01	179.65	12,510.3	-14,250.2	-87.8	14,250.5	0.00	0.00	0.00
26,800.0	90.01	179.65	12,510.2	-14,350.2	-87.2	14,350.5	0.00	0.00	0.00
26,900.0	90.01	179.65	12,510.2	-14,450.2	-86.6	14,450.5	0.00	0.00	0.00
27,000.0	90.01	179.65	12,510.2	-14,550.2	-86.0	14,550.5	0.00	0.00	0.00
27,100.0	90.01	179.65	12,510.2	-14,650.2	-85.4	14,650.4	0.00	0.00	0.00
27,200.0	90.01	179.65	12,510.2	-14,750.2	-84.8	14,750.4	0.00	0.00	0.00
27,300.0	90.01	179.65	12,510.1	-14,850.2	-84.2	14,850.4	0.00	0.00	0.00
27,400.0	90.01	179.65	12,510.1	-14,950.2	-83.5	14,950.4	0.00	0.00	0.00
27,500.0	90.01	179.65	12,510.1	-15,050.2	-82.9	15,050.4	0.00	0.00	0.00
27,600.0	90.01	179.65	12,510.1	-15,150.2	-82.3	15,150.4	0.00	0.00	0.00
27,700.0	90.01	179.65	12,510.1	-15,250.2	-81.7	15,250.4	0.00	0.00	0.00
27,800.0	90.01	179.65	12,510.0	-15,350.2	-81.1	15,350.4	0.00	0.00	0.00
27,900.0	90.01	179.65	12,510.0	-15,450.2	-80.5	15,450.4	0.00	0.00	0.00
27,964.4	90.01	179.65	12,510.0	-15,514.6	-80.1	15,514.8	0.00	0.00	0.00
,	IL FED COM 703	,							
28,000.0	90.01	179.65	12,510.0	-15,550.2	-79.9	15,550.4	0.00	0.00	0.00
28,014.4	90.01	179.65	12,510.0	-15,564.6	-79.8	15,564.8	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
REDTAIL 703 TGT BOX - plan misses target - Rectangle (sides V	center by 0.1		4,100.0 Busft MD (41	169.7 00.0 TVD, 169	-175.7 9.6 N, -175.6 E	488,354.50	713,037.00	32° 20' 26.579 N	103° 38' 36.779 W
LTP (REDTAIL FED COI - plan hits target cer - Circle (radius 50.0	nter	179.68	12,510.0	-15,514.6	-80.1	472,670.20	713,132.60	32° 17' 51.369 N	103° 38' 36.841 W
PBHL (REDTAIL FED Co - plan hits target cer - Rectangle (sides V	nter	359.66 31.7 D20.0)	12,510.0	-15,564.6	-79.8	472,620.20	713,132.90	32° 17' 50.874 N	103° 38' 36.842 W
FTP_REDTAIL FED COI - plan misses target - Circle (radius 50.0	center by 199	0.01 7usft at 124	12,510.0 20.7usft MD	118.1 (12357.6 TVE	-175.4 D, -11.0 N, -174	488,302.90 4.6 E)	713,037.30	32° 20' 26.068 N	103° 38' 36.779 W

Planning Report

EDT 17 Permian Prod Database: Company: DELAWARE BASIN EAST Project: LEA COUNTY SOUTHEAST REDTAIL FED COM PROJECT Site: Well: REDTAIL FEDERAL COM 703H

Wellbore: OWB Design: PWP2 Local Co-ordinate Reference: TVD Reference:

Survey Calculation Method:

MD Reference: North Reference: Well REDTAIL FEDERAL COM 703H

KB=27 @ 3764.0usft KB=27 @ 3764.0usft

Grid

Casing Points							
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(usft)	(usft)		Name	(")	(")	
	28,014.5	12,510.0	5-1/2" Production Casing		5-1/2	6-3/4	

Plan Annotations					
Measured	Vertical	Local Coor	dinates		
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
1,825.0	1,824.3	12.8	-13.2	Start 1669.4 hold at 1825.0 MD	
3,494.4	3,483.0	144.1	-149.2	Start Drop -1.00	
4,144.4	4,131.6	169.7	-175.7	Start 7808.4 hold at 4144.4 MD	
11,952.8	11,940.0	169.7	-175.7	Start DLS 10.00 TFO 179.65	
12,852.9	12,513.0	-403.4	-172.2	Start 15161.5 hold at 12852.9 MD	
28,014.4	12,510.0	-15,564.6	-79.8	TD at 28014.4	

Start DLS 10.00 TFO 179.65

FTP_REDTAIL FED COM 703

FTP_REDTAIL FED COM 703H

Start 1669.4 hold at 1825.0 MD

LEASE LINE

REDTAIL 703 TGT BOX 80X50

Start Build 2.00

Start 15161.5 hold at 12852.9 MD

REDTAIL FEDERAL COM 703H

11918-

11988

12005-

12040

12058

12075

12093

12110-

12145

12373-

12495-

250-

FEDERAL COM 703H/PWP2

Start DLS 10.00 TFO 179.65

FTP_REDTAIL FED COM 703H

Start 15161.5 hold at 12852.9 MD

12300-

12450

12600

-500 -250 0 250 500 750 Vertical Section at 180.29° (500 usft/in)

Start DLS 10.00 TFO 179.65

Start Build 2.00

Start Drop -1.00

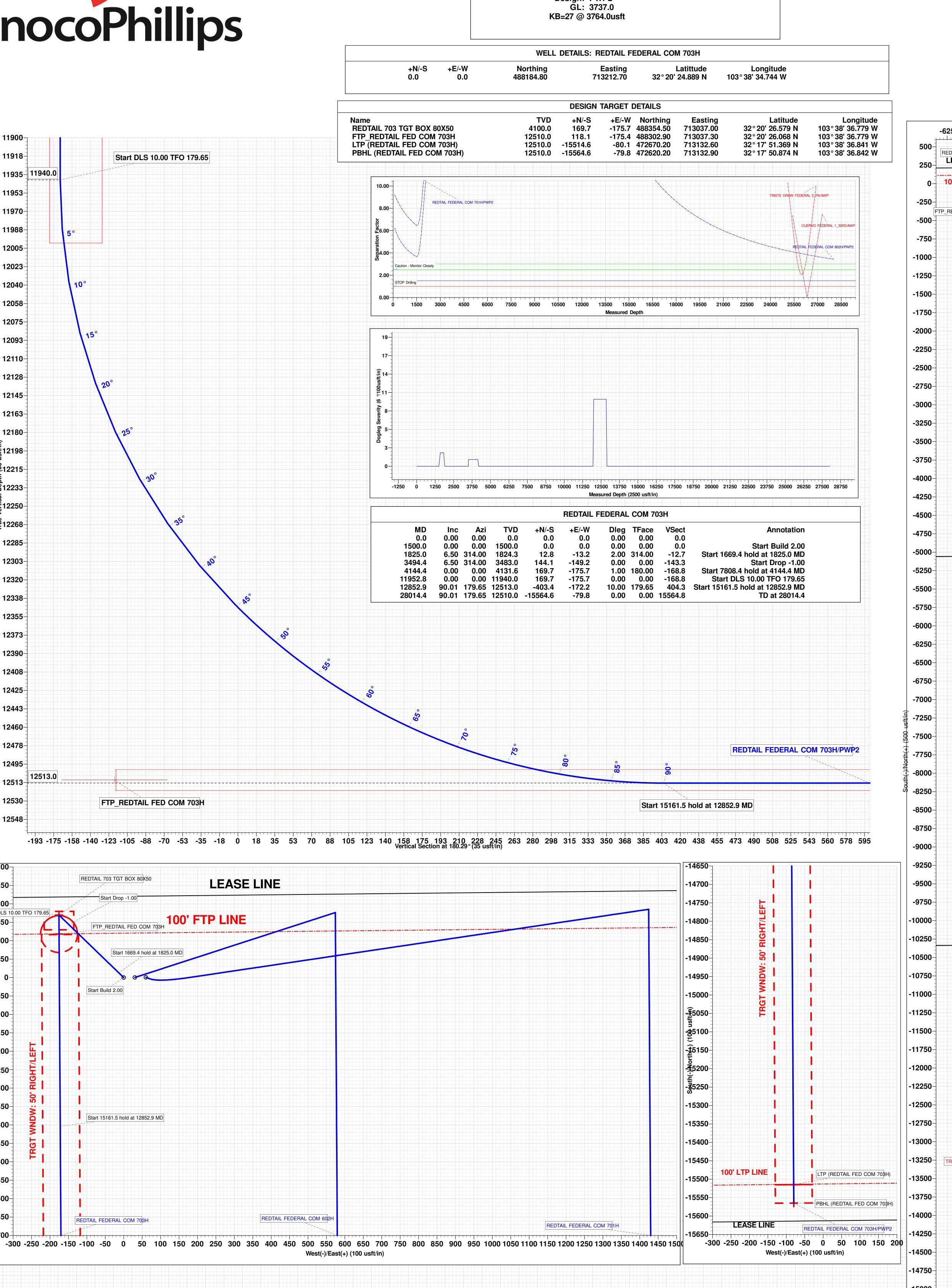
Start 7808.4 hold at 4144.4 MD

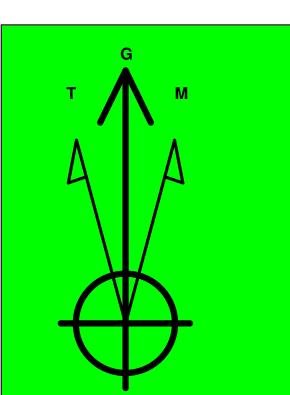
Start 1669.4 hold at 1825.0 MD

1800

Received by OCD: 6/27/2024 12:32:46 PM

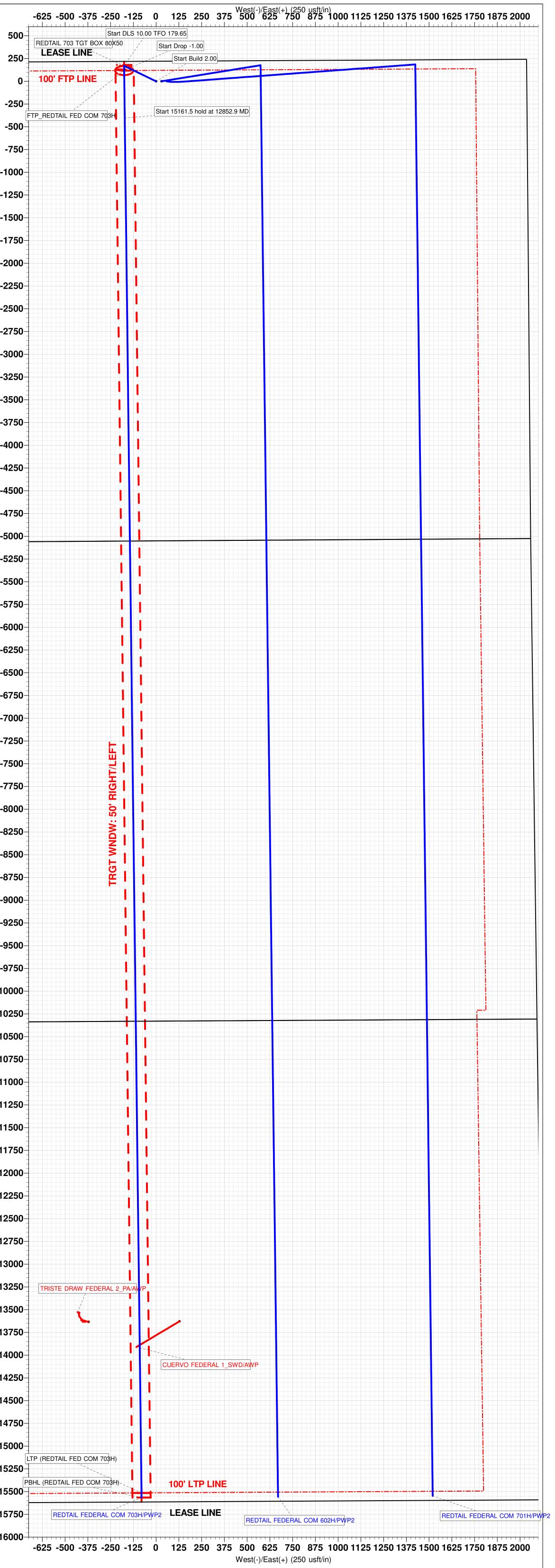
Project: LEA COUNTY SOUTHEAST Site: REDTAIL FED COM PROJECT Well: REDTAIL FEDERAL COM 703H Wellbore: OWB Design: PWP2 ĞL: 3737.0 KB=27 @ 3764.0usft





Azimuths to Grid North True North: -0.37 Magnetic North: 6.00

> Dip Angle: 59.96 Model: BGGM202



REDTAIL FEDERAL COM 703H/PWP2 LTP (REDTAIL FED COM 703H) PBHL (REDTAIL FED COM 703H)

Released to 150 125 1250 125 1250 125 1350 1575 1800 2025 2250 2475 2700 1925 1250 1375 1350 135

TRGT WNDW: 10' ABOVE/BELOW



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Reports
06/17/2024

Well Name: REDTAIL FEDERAL COM Well Location: T23S / R32E / SEC 2 / Coun

LOT 2 / 32.34037 / -103.643469

County or Parish/State: LEA /

NM

Well Number: 703H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM77062 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552722 Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2788704

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/07/2024 Time Sundry Submitted: 07:56

Date proposed operation will begin: 05/07/2024

Procedure Description: COG Operating LLC, respectfully requests approval for the following changes to the original approved APD. BHL Change: From: 50' FSL & 1650' FEL Section 11. T23S. R32E. To: 50' FSL & 2210' FEL Section 14. T23S. R32E. C102 Attached. Drilling Changes: Redtail Federal Com 703H BHL will change to 28,014ft MD. Directional Plan and AC Report attached. Break Test: COG Operating LLC, requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM. Bradenhead: COG Operating requests permission to do a Bradenhead Cement job for the associated well to this sundry. This previously approved procedure is detailed as attached. COG Operating also requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

NOI Attachments

Procedure Description

COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20240507100552.pdf

Redtail_Federal_Com_703H_Updated_C102_20240507100550.pdf

COP_BOP_Break_Testing_Documentation_6_07_23_20240507075524.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_AC_RPT_20240507074618.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_WP_20240507074618.pdf

REDTAIL_FEDERAL_COM_703H_PWP2_PLAN_RPT_20240507074617.pdf

eived by OCD: 6/27/2024 12:32:46 PM Well Name: REDTAIL FEDERAL COM Well Location: T23S / R32E / SEC 2 /

LOT 2 / 32.34037 / -103.643469

County or Parish/State: Page 29 of

Well Number: 703H Type of Well: OIL WELL **Allottee or Tribe Name:**

Unit or CA Number: Lease Number: NMNM77062 **Unit or CA Name:**

US Well Number: 3002552722 **Operator: COG OPERATING LLC**

Conditions of Approval

Additional

REDTAIL_FEDERAL_COM_703H___COA_20240611135713.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES Signed on: MAY 07, 2024 10:09 AM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTON State: TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera Street Address: 2208 West Main Street

City: Artesia State: NM **Zip:** 88210

Phone: (575)748-6940

Email address: gerald.a.herrera@conocophillips.com

BLM Point of Contact

Signature: Keith Immatty

BLM POC Name: KEITH P IMMATTY BLM POC Title: ENGINEER

BLM POC Phone: 5759884722 BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved Disposition Date: 06/11/2024

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BURGELLAND MANAGEMENT

BUR	EAU OF LAND MANA	5. Lease	5. Lease Serial No. NMNM77062						
Do not use this t	IOTICES AND REPO form for proposals to Use Form 3160-3 (AF	drill or to re-	enter an		lian, Allottee or	Tribe Name			
SUBMIT IN	TRIPLICATE - Other instruc	7. If Un	it of CA/Agree	ment, Name and/or No.					
1. Type of Well	_			Q Well	8. Well Name and No. REDTAIL FEDERAL COM/703H				
Oil Well Gas V	_	o. wen	ivallic and ivo.	REDTAIL FEDERAL COM/70	3H				
2. Name of Operator COG OPERATI	NG LLC			9. API \	Well No. 30025	552722			
3a. Address 600 West Illinois Ave, N		b. Phone No. <i>(inclu</i>) 432) 683-7443	de area code	´	d and Pool or E ONDTAIL/WC	xploratory Area DLFCAMP			
4. Location of Well (Footage, Sec., T., F SEC 2/T23S/R32E/NMP	R.,M., or Survey Description)			11. Cou LEA/I	ntry or Parish, S	State			
12. CHE	CK THE APPROPRIATE BO	X(ES) TO INDICAT	ΓE NATURE	OF NOTICE, REF	ORT OR OTH	ER DATA			
TYPE OF SUBMISSION			TY	PE OF ACTION					
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic 1		Production (S	start/Resume)	Water Shut-Off Well Integrity			
Calcar and Danast	Casing Repair	New Const	Ü	Recomplete		Other			
Subsequent Report	Change Plans	Plug and A	bandon	Temporarily A	Abandon				
Final Abandonment Notice	Convert to Injection	Plug Back		Water Dispos	al				
completion of the involved operation completed. Final Abandonment Notice is ready for final inspection.) COG Operating LLC, respectfor BHL Change: From: 50' FSL & 1650' FEL Sect C102 Attached. Drilling Changes: Redtail Federal Com 703H BHD Directional Plan and AC Report	tices must be filed only after a ully requests approval for the ection 11. T23S. R32E. ion 14. T23S. R32E.	Il requirements, incl	uding reclan	nation, have been co	ompleted and th				
Break Test: Continued on page 3 additiona	Linformation								
14. I hereby certify that the foregoing is		ted/Typed)							
MAYTE REYES / Ph: (281) 293-10		Title	Regulator	y Analyst					
Signature (Electronic Submission	on)	Date	:		05/07/20	24			
	THE SPACE	FOR FEDERA	L OR ST	ATE OFICE U	SE				
Approved by									
KEITH P IMMATTY / Ph: (575) 98		Title ENG	INEER	D	06/11/2024 Pate				
Conditions of approval, if any, are attac certify that the applicant holds legal or which would entitle the applicant to cor	equitable title to those rights in		Office CA	RLSBAD					
	2 II C C Section 1212 molec it			.l., J:11£.11 4					

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Additional Remarks

COG Operating LLC, requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

Bradenhead:

COG Operating requests permission to do a Bradenhead Cement job for the associated well to this sundry. This previously approved procedure is detailed as attached. COG Operating also requests a variance to allow for break testing of the BOPE during batch drilling operations. Break testing will be conducted in

accordance with the COP BOPE Break Testing Variance (attached) that has been approved by the BLM.

Location of Well

0. SHL: LOT 2 / 220 FNL / 2035 FEL / TWSP: 23S / RANGE: 32E / SECTION: 2 / LAT: 32.34037 / LONG: -103.643469 (TVD: 0 feet, MD: 0 feet) PPP: LOT 2 / 100 FNL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 2 / LAT: 32.340704 / LONG: -103.642189 (TVD: 12388 feet, MD: 12460 feet) PPP: NWNE / 1 FNL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 11 / LAT: 32.3265 / LONG: -103.642202 (TVD: 12513 feet, MD: 17683 feet) BHL: SWSE / 50 FSL / 1640 FEL / TWSP: 23S / RANGE: 32E / SECTION: 11 / LAT: 32.312108 / LONG: -103.642216 (TVD: 12513 feet, MD: 22782 feet)

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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: 6 / 20/ 23

II. Type: Original [☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NMA	AC □ Other.	
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					wells propo	sed to be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipa Gas MC		Anticipated roduced Water BBL/D
Redtail Federal Com 703H	30-025-	2-2-23S-32E	220 FNL & 2035 FEL	± 1945	± 5429)	± 2367
V. Anticipated Schedu proposed to be recompl	le: Provide the	gle well pad or con	nected to a centr	al delivery point.	vell or set of	f wells propo	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		nitial Flow Back Date	First Production Date
Redtail Federal Com 703H	Pending	9/16/2024	± 25 days from spud	1/14/2025	1/:	24/2025	1/29/2025
VI. Separation Equipmed VII. Operational Prace Subsection A through Figure VIII. Best Management during active and plann	etices: Attaction of 19.15.27.8	ch a complete descr NMAC.	ription of the act	tions Operator wil	l take to co	omply with t	he requirements of

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	
Natural Gas Gat	thering System (NO	GGS):				
			Anticipated Gathering		Available Maximum Daily Capaci of System Segment Tie-in	

XI. Map. \square 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	\square will \square will no	ot have capacity to gathe	er 100% of the anticipated	l natural gas
production volume from the well	prior to the date of first	st production.			

XIII. Line Pressure. Operator \square does \square 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:

_	
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection; or
alternative beneficial us	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es for the natural gas until a natural gas gathering system is available, including:
(a) (b)	power generation on lease; 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

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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)

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

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: Mayte Reyes
Printed Name: Mayte Reyes
Title: Sr. Regulatory Coodinator
E-mail Address: mayte.x.reyes@conocophillips.com
Date: 6/20/2023
Phone: 575-748-6945
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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CONDITIONS

Action 359217

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	359217
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY.	6/28/2024