<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

Form C-101 August 1, 2011

Permit 325086

	APPLICATION FOR PERIMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD	AZONE
Operator Name and Address		2. OGRID Number

1. Operator Name and Address		2. OGRID Number
COG OPERATING LLC		229137
600 W Illinois Ave		3. API Number
Midland, TX 79701		30-025-52422
4. Property Code	5. Property Name	6. Well No.
312818	REDTAIL STATE COM	506H

7 Surface Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	С	2	23S	32E	3	420	N	1515	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	2	23S	32E	M	50	S	330	W	Lea

9. Pool Information

RED TANK; BONE SPRING 51683

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3734
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	15890	Bone Spring		5/1/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			Z I. FTOPOSEU Gasini	y and Cement Program		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	45.5	1620	840	
Int1	9.875	7.625	29.7	10400	690	
Prod	6.75	5.5	23	15890	750	

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~1,620' with fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage (preset). Drill 9-7/8" x 8-3/4" (taper at ~8,000' MD) vertical hole to ~10,400' with saturated brine. Run 7-5/8" 29.7# L80-IC BTC (0'-8,000') / P110 W513 (8,000'-10,400') casing to TD and cement to surface in one stage. Drill 6-3/4" curve and lateral to ~15,890' with OBM. Run 5-1/2" 23# P-110-CY TXP BTC (0'-9,900') / P110-CY W441 (9,900'-15,890') casing to TD and cement to surface in one stage.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	10000	Cameron

knowledge and	belief. I have complied with 19.15.	above is true and complete to the best	ĺ		OIL CONS	ERVATION DIVISION
Printed Name:	Electronically filed by Ro	byn Russell		Approved By:	Paul F Kautz	
Title:	Supervisor Delaware R	egulatory		Title:	Geologist	
Email Address:	robyn.m.russell@conoc	cophillips.com		Approved Date:	1/11/2024	Expiration Date: 1/11/2026
Date:	1/4/2024 Phone: 432-685-4385			Conditions of App	roval Attached	

DISTRICT I
1025 N. FRENCH DR., HOBBS, NM 88240
Phone: (676) 393-6161 Fax: (676) 393-6720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (676) 748-1283 Fax: (676) 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

229137

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

 \square AMENDED REPORT

3733.8

	WELL LOCATION AND	ACREAGE DEDICATION PLAT			
API Number	Pool Code	Pool Name			
30-025-	51683	Red Tank; Bone Spring			
Property Code	Prop	erty Name	Well Number		
	REDTAIL STATE COM 506H				
OGRID No.	Operator Name Elevation				

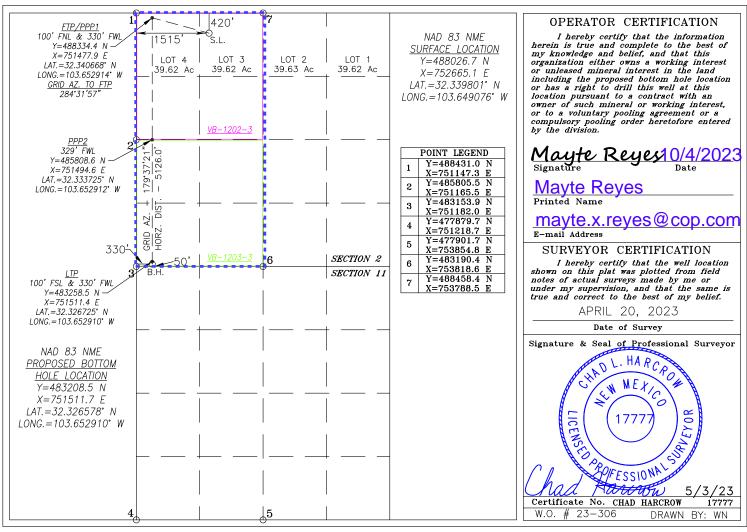
COG OPERATING, LLC
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	2	23-S	32-E		420	NORTH	1515	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	2	23-S	32-E		50	SOUTH	330	WEST	LEA
Dedicated Acre	s Joint o	r Infill	Consolidation (Code Or	der No.		•		•
319.29)								

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



Form APD Comments

Permit 325086

State of New Mexico

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
<u>District II</u>

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-52422
600 W Illinois Ave	Well:
Midland, TX 79701	REDTAIL STATE COM #506H

	Created By	Comment	Comment Date
I	mreyes4	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any	1/4/2024
		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	1
١		H2S Contingency Plan would be necessary.	1 1

Permit 325086

Form APD Conditions

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:	
COG OPERATING LLC [229137]	30-025-52422	
600 W Illinois Ave	Well:	
Midland, TX 79701	REDTAIL STATE COM #506H	

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.							
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					wells proposed to	o be dri	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D
Redtail State Com 506H	30-025-	3-2-23S-32E	420 FNL & 1515 FWL	± 1775	± 3039		± 4243
IV. Central Delivery Point Name: [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 Completion Initial Flow First Production							
			Date	Commencement			Date
Redtail State Com 506H	Pending	9/16/2024	± 25 days from spud	1/14/2025	1/24/2	025	1/29/2025
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/I	Anticipated Volume of Natural Gas for the First Year MCF
Natural Gas Gat	hering System (NO	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity 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	ı 🗆 will 🗆 wil	l not have cap	pacity to gather	100% of the anticipate	d natural gas
production	n volume from the well	prior to the date of fir	rst 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 same segment is a segment of the same segment.	ne
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

	, , ,	1 4	4 41 '	1 1'
☐ Attach Operator	's plan to manage	production in res	ponse to the increas	ed line pressure

XIV.	onfidentiality: \square 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 wh	h 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 nticipated 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. ☐ Operate D of 19.15.27.9 NMAC	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
alternative beneficial use (a) (b) (c) (d) (e)	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: power generation on lease; power generation for grid; compression on lease; liquids removal on lease; reinjection for underground storage;
(f) (g) (h)	reinjection for temporary storage; reinjection for enhanced oil recovery; 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:

Redtail State Com #506H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	14-3/4"	10-3/4""	45.5#	1,620'	840	0'
Intermediate	9-7/8" x 8-3/4"	7-5/8"	29.7#	10,400'	690	0'
Production	6-3/4"	5-1/2"	23.0#	15,890'	750	0'

Well Plan

Drill 14-3/4" hole to ~1,620' with fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage (preset).

Drill 9-7/8" x 8-3/4" (taper at \sim 8,000' MD) vertical hole to \sim 10,400' with saturated brine. Run 7-5/8" 29.7# L80-IC BTC (0'-8,000') / P110 W513 (8,000'-10,400') casing to TD and cement to surface in one stage.

Drill 6-3/4" curve and lateral to ~15,890' with OBM. Run 5-1/2" 23# P-110-CY TXP BTC (0'-9,900') / P110-CY W441 (9,900'-15,890') casing to TD and cement to surface in one stage.

Well Control

After setting 10-3/4" casing and installing 10,000 psi casing head, NU 13-5/8" Cameron BOP. Test casing to 1500 psi, annular to 3500 psi and other BOP equipment to 10,000 psi.

<u>Type</u>	Working Pressure	<u>Test Pressure</u>	<u>Manufacture</u>
Double Ram	10,000 psi	10,000 psi	Cameron

COG OPERATING LLC HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. <u>HYDROGEN SULFIDE TRAINING</u>

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. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

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.

WARNING

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>
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

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

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST REDTAIL FED COM PROJECT REDTAIL STATE COM #506H

OWB

Plan: PWP1

Standard Planning Report

04 January, 2024

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL STATE COM #506H

Wellbore: OWB
Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well REDTAIL STATE COM #506H

RKB=30ft @ 3763.8usft RKB=30ft @ 3763.8usft

Grid

Minimum Curvature

Project LEA COUNTY SOUTHEAST

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

System Datum:

Mean Sea Level

Map Zone: New Mexico East 3001

 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 STATE COM #506H **Well Position** +N/-S 0.0 usft Northing: 487,966.70 usft Latitude: 32° 20' 22.840 N +E/-W 0.0 usft Easting: 711,482.20 usft Longitude: 103° 38' 54.930 W **Position Uncertainty** 3.0 usft Wellhead Elevation: usft **Ground Level:** 3,733.8 usft 0.37 **Grid Convergence:**

OWB Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) BGGM2023 47,459.22496976 6/1/2024 6.38 59.96

PWP1 Design Audit Notes: Phase: PLAN Tie On Depth: 0.0 Version: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 193.46 0.0 0.0 0.0

	Plan Su	rvey Tool Progr	ram	Date	6/12/2023			
	D	epth From (usft)	Depth To (usft)	Survey	(Wellbore)	Tool Name		Remarks
	1	0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_V	VL_NS-CT	
						SDI Keeper Wir	eline Gyrocomp	
	2	1,500.0	10,597.8	PWP1 (OWB)	r.5 MWD+IFR1		
						OWSG MWD +	IFR1 rev.5	
	3	10,597.8	15,889.7	PWP1 (OWB)	r.5 MWD+IFR1	+MS	
						OWSG MWD +	IFR1 + Multi-St	
l								

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL STATE COM #506H

Wellbore: OWB
Design: PWP1

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

Survey Calculation Method:

Well REDTAIL STATE COM #506H

RKB=30ft @ 3763.8usft RKB=30ft @ 3763.8usft

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	
2,400.0	13.50	280.00	2,391.7	18.3	-103.9	1.50	1.50	0.00	280.00	
6,181.3	13.50	280.00	6,068.5	171.6	-973.2	0.00	0.00	0.00	0.00	
7,531.3	0.00	0.00	7,406.0	199.1	-1,129.2	1.00	-1.00	0.00	180.00	
10,597.8	0.00	0.00	10,472.5	199.1	-1,129.2	0.00	0.00	0.00	0.00	
11,347.8	90.00	185.00	10,950.0	-276.5	-1,170.8	12.00	12.00	0.00	185.00	
11,616.6	90.00	179.62	10,950.0	-545.0	-1,181.6	2.00	0.00	-2.00	-90.00	
15,839.7	90.00	179.62	10,950.0	-4,768.1	-1,153.9	0.00	0.00	0.00	0.00	
15,889.7	90.00	179.62	10,950.0	-4,818.1	-1,153.6	0.00	0.00	0.00	0.00	

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
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Wellbore: OWB
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TVD Reference:
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Well REDTAIL STATE COM #506H

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Grid

Design:	PWP1								
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
·		0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1. 1,600.0	1.50	280.00	1,600.0	0.2	-1.3	0.1	1.50	1.50	0.00
1,600.0	3.00	280.00	1,600.0	0.2	-1.3 -5.2	0.1	1.50	1.50	0.00
1,800.0	4.50	280.00	1,799.7	2.0	-11.6	0.3	1.50	1.50	0.00
1,900.0	6.00	280.00	1,899.3	3.6	-20.6	1.3	1.50	1.50	0.00
2,000.0	7.50	280.00	1,998.6	5.7	-32.2	2.0	1.50	1.50	0.00
2,100.0	9.00	280.00	2,097.5	8.2	-46.3	2.8	1.50	1.50	0.00
2,200.0	10.50	280.00	2,196.1	11.1	-63.0	3.9	1.50	1.50	0.00
2,300.0 2,400.0	12.00 13.50	280.00 280.00	2,294.2 2,391.7	14.5 18.3	-82.2 -103.9	5.0 6.4	1.50 1.50	1.50 1.50	0.00 0.00
,	nold at 2400.0 M		2,391.7	10.3	-103.9	0.4	1.50	1.50	0.00
2,500.0	13.50	280.00	2,488.9	22.4	-126.9	7.8	0.00	0.00	0.00
2,600.0	13.50	280.00	2,586.2	26.4	-149.9	9.2	0.00	0.00	0.00
2,700.0	13.50	280.00	2,683.4	30.5	-172.9	10.6	0.00	0.00	0.00
2,800.0 2,900.0	13.50	280.00	2,780.6	34.5	-195.9	12.0 13.4	0.00 0.00	0.00 0.00	0.00 0.00
2,900.0	13.50	280.00	2,877.9	38.6	-218.9	13.4	0.00	0.00	0.00
3,000.0	13.50	280.00	2,975.1	42.6	-241.9	14.8	0.00	0.00	0.00
3,100.0	13.50	280.00	3,072.4	46.7	-264.9	16.3	0.00	0.00	0.00
3,200.0	13.50	280.00	3,169.6	50.8	-287.9	17.7	0.00	0.00	0.00
3,300.0	13.50	280.00	3,266.8	54.8	-310.8	19.1	0.00	0.00	0.00
3,400.0	13.50	280.00	3,364.1	58.9	-333.8	20.5	0.00	0.00	0.00
3,500.0	13.50	280.00	3,461.3	62.9	-356.8	21.9	0.00	0.00	0.00
3,600.0	13.50	280.00	3,558.5	67.0	-379.8	23.3	0.00	0.00	0.00
3,700.0	13.50	280.00	3,655.8	71.0	-402.8	24.7	0.00	0.00	0.00
3,800.0	13.50	280.00	3,753.0	75.1	-425.8	26.1	0.00	0.00	0.00
3,900.0	13.50	280.00	3,850.3	79.1	-448.8	27.5	0.00	0.00	0.00
4,000.0	13.50	280.00	3,947.5	83.2	-471.8	29.0	0.00	0.00	0.00
4,100.0	13.50	280.00	4,044.7	87.2	-494.8	30.4	0.00	0.00	0.00
4,200.0	13.50	280.00	4,142.0	91.3	-517.8	31.8	0.00	0.00	0.00
4,300.0	13.50	280.00	4,239.2	95.3	-540.7	33.2	0.00	0.00	0.00
4,400.0	13.50	280.00	4,336.4	99.4	-563.7	34.6	0.00	0.00	0.00
4,500.0	13.50	280.00	4,433.7	103.5	-586.7	36.0	0.00	0.00	0.00
4,600.0	13.50	280.00	4,530.9	107.5	-609.7	37.4	0.00	0.00	0.00
4,700.0	13.50	280.00	4,628.1	111.6	-632.7	38.8	0.00	0.00	0.00
4,800.0	13.50	280.00	4,725.4	115.6	-655.7	40.2	0.00	0.00	0.00
4,900.0	13.50	280.00	4,822.6	119.7	-678.7	41.7	0.00	0.00	0.00
5,000.0	13.50	280.00	4,919.9	123.7	-701.7	43.1	0.00	0.00	0.00
5,000.0	13.50	280.00	5,017.1	123.7	-701.7 -724.7	43.1 44.5	0.00	0.00	0.00
3,100.0	10.00	200.00	0,017.1	121.0	-124.1	44.3	0.00	0.00	0.00

Planning Report

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RKB=30ft @ 3763.8usft RKB=30ft @ 3763.8usft

Grid

sign:	FVVFI								
anned 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	13.50	280.00	5,114.3	131.8	-747.7	45.9	0.00	0.00	0.00
5,300.0	13.50	280.00	5,211.6	135.9	-770.6	47.3	0.00	0.00	0.00
5,400.0	13.50	280.00	5,308.8	139.9	-793.6	48.7	0.00	0.00	0.00
5,500.0	13.50	280.00	5,406.0	144.0	-816.6	50.1	0.00	0.00	0.00
5,600.0	13.50	280.00	5,503.3	148.0	-839.6	51.5	0.00	0.00	0.00
5,700.0	13.50	280.00	5,600.5	152.1	-862.6	52.9	0.00	0.00	0.00
5,800.0	13.50	280.00	5,697.8	156.2	-885.6	54.3	0.00	0.00	0.00
5,900.0	13.50	280.00	5,795.0	160.2	-908.6	55.8	0.00	0.00	0.00
6,000.0	13.50	280.00	5,892.2	164.3	-931.6	57.2	0.00	0.00	0.00
6,100.0	13.50	280.00	5,989.5	168.3	-954.6	58.6	0.00	0.00	0.00
6,181.3	13.50	280.00	6,068.5	171.6	-973.2	59.7	0.00	0.00	0.00
Start Drop - 6,200.0 6,300.0	13.31 12.31	280.00 280.00	6,086.7 6,184.2	172.4 176.2	-977.5 -999.4	60.0 61.3	1.00 1.00	-1.00 -1.00	0.00 0.00
6,400.0	11.31	280.00	6,282.1	179.8	-1,019.5	62.6	1.00	-1.00	0.00
6,500.0	10.31	280.00	6,380.3	183.0	-1,038.0	63.7	1.00	-1.00	0.00
6,600.0	9.31	280.00	6,478.9	186.0	-1,054.8	64.7	1.00	-1.00	0.00
6,700.0 6,800.0	8.31 7.31	280.00 280.00	6,577.7 6,676.7	188.6 191.0	-1,069.9 -1,083.3	65.7 66.5	1.00	-1.00 -1.00	0.00
6,900.0	6.31	280.00	6,776.0	193.1	-1,094.9	67.2	1.00	-1.00	0.00
7,000.0	5.31	280.00	6,875.5	194.8	-1,104.9	67.8	1.00	-1.00	0.00
7,100.0	4.31	280.00	6,975.2	196.3	-1,113.2	68.3	1.00	-1.00	0.00
7,200.0	3.31	280.00	7,074.9	197.4	-1,119.7	68.7	1.00	-1.00	0.00
7,300.0 7,300.0 7,400.0	2.31 1.31	280.00 280.00	7,174.8 7,274.8	198.3 198.8	-1,119.7 -1,124.6 -1,127.7	69.0 69.2	1.00	-1.00 -1.00	0.00
7,500.0 7,531.3 Start 3066 5	0.31 0.00 hold at 7531.3 N	280.00 0.00	7,374.8 7,406.0	199.1 199.1	-1,129.1 -1,129.2	69.3 69.3	1.00 1.00	-1.00 -1.00	0.00 0.00
7,600.0	0.00	0.00	7,474.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,574.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,674.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,774.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,874.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,974.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,074.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,174.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,274.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,374.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,474.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
8,700.0 8,800.0 8,900.0	0.00 0.00 0.00	0.00 0.00 0.00	8,574.8 8,674.8 8,774.8	199.1 199.1 199.1	-1,129.2 -1,129.2 -1,129.2	69.3 69.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,000.0	0.00	0.00	8,874.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,974.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,074.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,174.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,274.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,374.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,474.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,574.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9.674.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
9,800.0 9,900.0 10,000.0 10,100.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,674.8 9,774.8 9,874.8 9,974.8	199.1 199.1 199.1 199.1	-1,129.2 -1,129.2 -1,129.2 -1,129.2	69.3 69.3 69.3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

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Meas Dep (us	oth	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,	,200.0	0.00	0.00	10,074.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
10	,300.0	0.00	0.00	10,174.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
	,400.0	0.00	0.00	10,174.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
	,500.0	0.00	0.00	10,374.8	199.1	-1,129.2	69.3	0.00	0.00	0.00
	,500.0	0.00	0.00	10,472.5	199.1	-1,129.2	69.3	0.00	0.00	0.00
			0.00	10,472.5	199.1	-1,129.2	09.3	0.00	0.00	0.00
	Build 1: ,600.0	0.27	185.00	10,474.8	199.1	-1,129.2	69.3	12.00	12.00	0.00
	,625.0	3.27	185.00	10,499.7	198.3	-1,129.2	70.1	12.00	12.00	0.00
	,650.0	6.27	185.00	10,524.7	196.3	-1,129.4	72.1	12.00	12.00	0.00
	,675.0	9.27	185.00	10,549.4	192.9	-1,129.7	75.5	12.00	12.00	0.00
	,700.0	12.27	185.00	10,574.0	188.2	-1,130.1	80.1	12.00	12.00	0.00
10,	,725.0	15.27	185.00	10,598.3	182.3	-1,130.6	86.0	12.00	12.00	0.00
10	,750.0	18.27	185.00	10,622.2	175.1	-1,131.2	93.1	12.00	12.00	0.00
	,775.0	21.27	185.00	10,645.7	166.7	-1,132.0	101.5	12.00	12.00	0.00
	,775.0	24.27	185.00	10,668.8	157.1	-1,132.8	111.0	12.00	12.00	0.00
	,825.0	27.27	185.00	10,691.3	146.2	-1,133.8	121.8	12.00	12.00	0.00
	,850.0	30.27	185.00	10,713.2	134.3	-1,133.8	133.7	12.00	12.00	0.00
	,875.0	33.27	185.00	10,734.4	121.2	-1,136.0	146.7	12.00	12.00	0.00
	,900.0	36.27	185.00	10,755.0	107.0	-1,137.2	160.8	12.00	12.00	0.00
	,925.0	39.27	185.00	10,774.7	91.7	-1,138.5	175.9	12.00	12.00	0.00
10,	,950.0	42.27	185.00	10,793.7	75.4	-1,140.0	192.1	12.00	12.00	0.00
10,	,975.0	45.27	185.00	10,811.7	58.2	-1,141.5	209.2	12.00	12.00	0.00
11	,000.0	48.27	185.00	10,828.8	40.1	-1,143.1	227.2	12.00	12.00	0.00
	,025.0	51.27	185.00	10,845.0	21.1	-1,144.7	246.1	12.00	12.00	0.00
	,050.0	54.27	185.00	10,860.1	1.2	-1,146.5	265.8	12.00	12.00	0.00
	,075.0	57.27	185.00	10,874.2	-19.4	-1,148.3	286.2	12.00	12.00	0.00
	,100.0	60.27	185.00	10,887.1	-40.6	-1,150.1	307.3	12.00	12.00	0.00
	,125.0	63.27	185.00	10,899.0	-62.6	-1,152.0	329.1	12.00	12.00	0.00
	,150.0	66.27	185.00	10,909.6	-85.1	-1,154.0	351.5	12.00	12.00	0.00
	,175.0	69.27	185.00	10,919.1	-108.2	-1,156.0	374.4	12.00	12.00	0.00
	,200.0	72.27	185.00	10,927.3	-131.7	-1,158.1	397.7	12.00	12.00	0.00
11,	,225.0	75.27	185.00	10,934.3	-155.6	-1,160.2	421.5	12.00	12.00	0.00
11.	,250.0	78.27	185.00	10,940.0	-179.8	-1,162.3	445.5	12.00	12.00	0.00
	,275.0	81.27	185.00	10,944.5	-204.3	-1,164.4	469.9	12.00	12.00	0.00
	,300.0	84.27	185.00	10,947.6	-229.0	-1,166.6	494.4	12.00	12.00	0.00
	,325.0	87.27	185.00	10,949.5	-253.9	-1,168.8	519.0	12.00	12.00	0.00
	,347.8	90.00	185.00	10,950.0	-276.5	-1,170.8	541.6	12.00	12.00	0.00
		00 TFO -90.00		· ·						
			100 00	40.055.5	200 5					0.55
	,400.0	90.00	183.96	10,950.0	-328.6	-1,174.8	593.1	2.00	0.00	-2.00
	,500.0	90.00	181.96	10,950.0	-428.5	-1,180.0	691.5	2.00	0.00	-2.00
	,600.0	90.00	179.96	10,950.0	-528.5	-1,181.7	789.1	2.00	0.00	-2.00
	,616.6	90.00	179.62	10,950.0	-545.0	-1,181.6	805.2	2.00	0.00	-2.00
		hold at 11616.6 l								
11,	,700.0	90.00	179.62	10,950.0	-628.5	-1,181.1	886.2	0.00	0.00	0.00
11	,800.0	90.00	179.62	10,950.0	-728.5	-1,180.4	983.3	0.00	0.00	0.00
	,900.0	90.00	179.62	10,950.0	-828.5	-1,179.7	1,080.4	0.00	0.00	0.00
	,000.0	90.00	179.62	10,950.0	-928.4	-1,179.1	1,177.5	0.00	0.00	0.00
	,100.0	90.00	179.62	10,950.0	-1,028.4	-1,178.4	1,177.5	0.00	0.00	0.00
	,200.0	90.00	179.62	10,950.0	-1,128.4	-1,170.4	1,371.7	0.00	0.00	0.00
	,300.0	90.00	179.62	10,950.0	-1,228.4	-1,177.1	1,468.8	0.00	0.00	0.00
	,400.0	90.00	179.62	10,950.0	-1,328.4	-1,176.5	1,565.9	0.00	0.00	0.00
	,500.0	90.00	179.62	10,950.0	-1,428.4	-1,175.8	1,663.0	0.00	0.00	0.00
12	,600.0	90.00	179.62	10,950.0	-1,528.4	-1,175.2	1,760.1	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 STATE COM #506H

Wellbore: OWB
Design: PWP1

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

Survey Calculation Method:

North Reference:

Well REDTAIL STATE COM #506H

RKB=30ft @ 3763.8usft RKB=30ft @ 3763.8usft

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)
12,700.0	90.00	179.62	10,950.0	-1,628.4	-1,174.5	1,857.2	0.00	0.00	0.00
12,800.0	90.00	179.62	10,950.0	-1,728.4	-1,173.8	1,954.3	0.00	0.00	0.00
12,900.0	90.00	179.62	10,950.0	-1,828.4	-1,173.2	2,051.3	0.00	0.00	0.00
13,000.0	90.00	179.62	10,950.0	-1,928.4	-1,172.5	2,148.4	0.00	0.00	0.00
13,100.0	90.00	179.62	10,950.0	-2,028.4	-1,171.9	2,245.5	0.00	0.00	0.00
13,200.0	90.00	179.62	10,950.0	-2,128.4	-1,171.2	2,342.6	0.00	0.00	0.00
13,300.0	90.00	179.62	10,950.0	-2,228.4	-1,170.6	2,439.7	0.00	0.00	0.00
13,400.0	90.00	179.62	10,950.0	-2,328.4	-1,169.9	2,536.8	0.00	0.00	0.00
13,500.0	90.00	179.62	10,950.0	-2,428.4	-1,169.2	2,633.9	0.00	0.00	0.00
13,600.0	90.00	179.62	10,950.0	-2,528.4	-1,168.6	2,731.0	0.00	0.00	0.00
13,700.0	90.00	179.62	10,950.0	-2,628.4	-1,167.9	2,828.1	0.00	0.00	0.00
13,800.0	90.00	179.62	10,950.0	-2,728.4	-1,167.3	2,925.2	0.00	0.00	0.00
13,900.0	90.00	179.62	10,950.0	-2,828.4	-1,166.6	3,022.3	0.00	0.00	0.00
14,000.0	90.00	179.62	10,950.0	-2,928.4	-1,166.0	3,119.4	0.00	0.00	0.00
14,100.0	90.00	179.62	10,950.0	-3,028.4	-1,165.3	3,216.5	0.00	0.00	0.00
14,200.0	90.00	179.62	10,950.0	-3,128.4	-1,164.7	3,313.6	0.00	0.00	0.00
14,300.0	90.00	179.62	10,950.0	-3,228.4	-1,164.0	3,410.7	0.00	0.00	0.00
14,400.0	90.00	179.62	10,950.0	-3,328.4	-1,163.3	3,507.8	0.00	0.00	0.00
14,500.0	90.00	179.62	10,950.0	-3,428.4	-1,162.7	3,604.9	0.00	0.00	0.00
14,600.0	90.00	179.62	10,950.0	-3,528.4	-1,162.0	3,702.0	0.00	0.00	0.00
14,700.0	90.00	179.62	10,950.0	-3,628.4	-1,161.4	3,799.1	0.00	0.00	0.00
14,800.0	90.00	179.62	10,950.0	-3,728.4	-1,160.7	3,896.2	0.00	0.00	0.00
14,900.0	90.00	179.62	10,950.0	-3,828.4	-1,160.1	3,993.3	0.00	0.00	0.00
15,000.0	90.00	179.62	10,950.0	-3,928.4	-1,159.4	4,090.4	0.00	0.00	0.00
15,100.0	90.00	179.62	10,950.0	-4,028.4	-1,158.8	4,187.5	0.00	0.00	0.00
15,200.0	90.00	179.62	10,950.0	-4,128.4	-1,158.1	4,284.6	0.00	0.00	0.00
15,300.0	90.00	179.62	10,950.0	-4,228.4	-1,157.4	4,381.7	0.00	0.00	0.00
15,400.0	90.00	179.62	10,950.0	-4,328.4	-1,156.8	4,478.8	0.00	0.00	0.00
15,500.0	90.00	179.62	10,950.0	-4,428.4	-1,156.1	4,575.9	0.00	0.00	0.00
15,600.0	90.00	179.62	10,950.0	-4,528.4	-1,155.5	4,673.0	0.00	0.00	0.00
15,700.0	90.00	179.62	10,950.0	-4,628.4	-1,154.8	4,770.0	0.00	0.00	0.00
15,800.0	90.00	179.62	10,950.0	-4,728.4	-1,154.2	4,867.1	0.00	0.00	0.00
15,839.7	90.00	179.62	10,950.0	-4,768.1	-1,153.9	4,905.7	0.00	0.00	0.00
	old at 15839.7 MI								
15,889.7	90.00	179.62	10,950.0	-4,818.1	-1,153.6	4,954.3	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
FTP (REDTAIL ST COM - plan misses target - Circle (radius 50.0)		0.00 .4usft at 109	10,950.0 25.0usft MD	307.7 (10774.7 TVE	-1,187.2 D, 91.7 N, -113	488,274.40 88.5 E)	710,295.00	32° 20' 25.960 N	103° 39' 8.745 W
PBHL (REDTAIL ST COI - plan hits target cer - Rectangle (sides V	iter	359.62 5.9 D20.0)	10,950.0	-4,818.1	-1,153.6	483,148.60	710,328.60	32° 19' 35.236 N	103° 39' 8.733 W
LTP (REDTAIL ST COM - plan hits target cer - Point	90.00 iter	179.61	10,950.0	-4,768.1	-1,153.9	483,198.60	710,328.30	32° 19' 35.730 N	103° 39' 8.732 W

Planning Report

Database: EDT 17 Permian Prod
Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Site: REDTAIL FED COM PROJECT
Well: REDTAIL STATE COM #506H

Wellbore: OWB
Design: PWP1

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

Survey Calculation Method:

Well REDTAIL STATE COM #506H

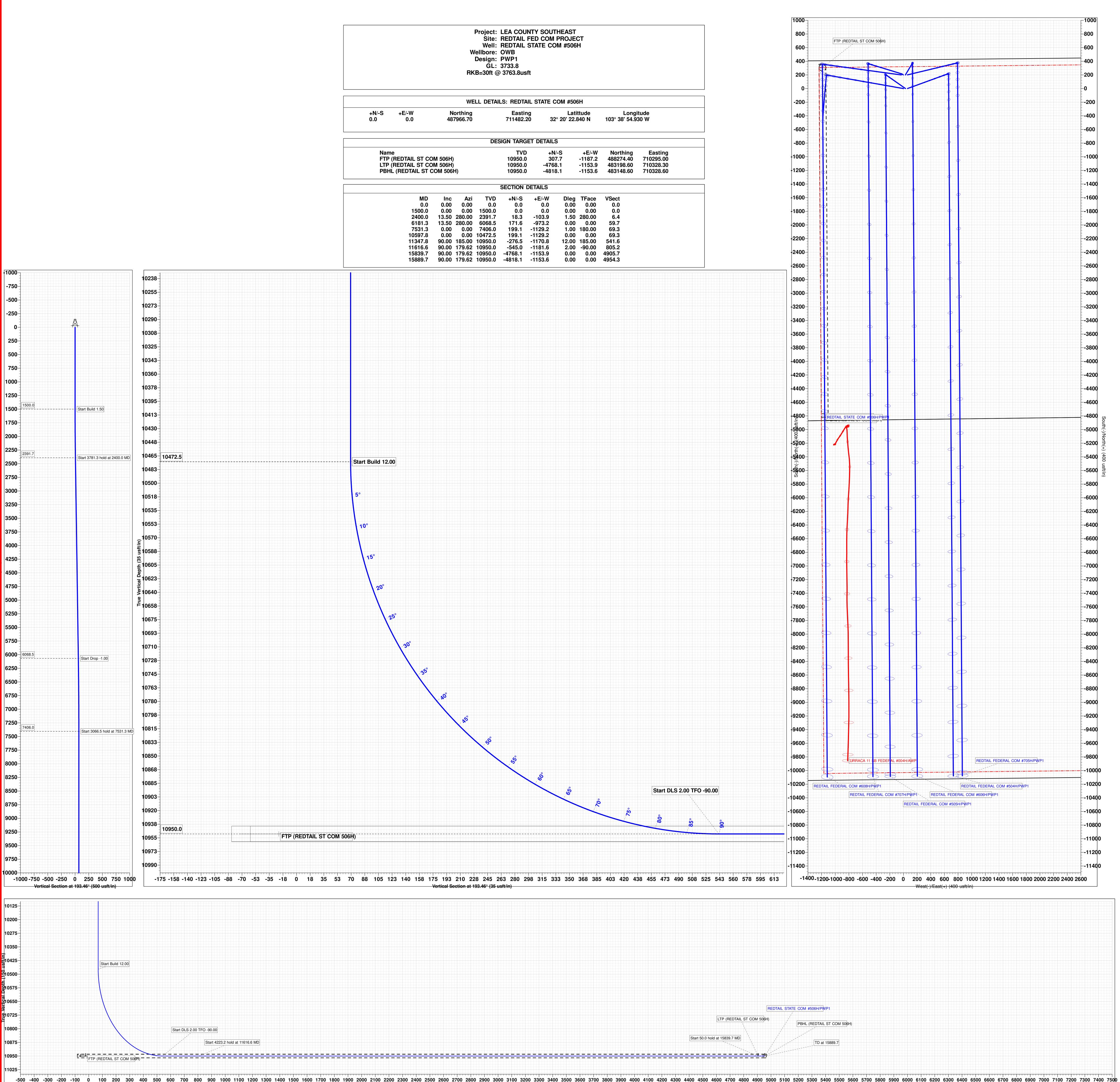
RKB=30ft @ 3763.8usft RKB=30ft @ 3763.8usft

Grid

Plan Annotations	;					
ı	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 1.50	
	2,400.0	2,391.7	18.3	-103.9	Start 3781.3 hold at 2400.0 MD	
	6,181.3	6,068.5	171.6	-973.2	Start Drop -1.00	
	7,531.3	7,406.0	199.1	-1,129.2	Start 3066.5 hold at 7531.3 MD	
	10,597.8	10,472.5	199.1	-1,129.2	Start Build 12.00	
	11,347.8	10,950.0	-276.5	-1,170.8	Start DLS 2.00 TFO -90.00	
	11,616.6	10,950.0	-545.0	-1,181.6	Start 4223.2 hold at 11616.6 MD	
	15,839.7	10,950.0	-4,768.1	-1,153.9	Start 50.0 hold at 15839.7 MD	
	15,889.7	10,950.0	-4,818.1	-1,153.6	TD at 15889.7	

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Page 24 of 24



Vertical Section at 193.46° (200 usft/in)