

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

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

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		5. Lease Serial No. NMNM100555 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. WILD THING FEDERAL COM 501H 9. API Well No. 30-015-56221
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory WILLOW LAKE/BONE SPRING, SOUTHE 11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T25S/R29E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 1130 FSL / 1708 FEL / LAT 32.082051 / LONG -104.020533 At proposed prod. zone NWSE / 2590 FSL / 1450 FEL / LAT 32.115432 / LONG -104.019927		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 12 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1601.05
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 19. Proposed Depth 8435 feet / 21424 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2945 feet 22. Approximate date work will start* 11/01/2025 23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Regulatory Analyst	Name (Printed/Typed) MAYTE REYES / Ph: (432) 683-7443	Date 08/24/2023
Approved by (Signature) (Electronic Submission) Title Petroleum Engineer	Name (Printed/Typed) CHRISTOPHER WALLS / Ph: (575) 234-2234 Office Carlsbad Field Office	Date 01/29/2025

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

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

(Continued on page 2)

*(Instructions on page 2)



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWSE / 1130 FSL / 1708 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.082051 / LONG: -104.020533 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.079219 / LONG: -104.019721 (TVD: 8251 feet, MD: 8381 feet)

PPP: SWSE / 1 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 30 / LAT: 32.093631 / LONG: -104.019622 (TVD: 8435 feet, MD: 14231 feet)

BHL: NWSE / 2590 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 19 / LAT: 32.115432 / LONG: -104.019927 (TVD: 8435 feet, MD: 21424 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number 30-015-56221	Pool Code 13354 52775	Pool Name Corral Canyon; Bone Spring South Rock Spur; Bone Spring
Property Code 336969	Property Name WILD THING FEDERAL COM	Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 2,945.22'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	31	25S	29E		1,130' FSL	1,708' FEL	32.082051	-104.020533	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	19	25S	29E		2,590' FSL	1,450' FEL	32.115432	-104.019927	EDDY

Dedicated Acres 1281.28	Infill or Defining Well Defining	Defining Well API Pending	Overlapping Spacing Unit (Y/N) Y	Consolidation Code COM
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	31	25S	29E		1,130' FSL	1,708' FEL	32.082051	-104.020533	EDDY

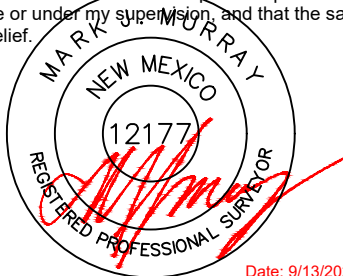
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	31	25S	29E		100' FSL	1,450' FEL	32.079219	-104.019721	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	19	25S	29E		2,540' FSL	1,450' FEL	32.115295	-104.019926	EDDY

Unitized Area or Area of Uniform Interest COM	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 2945.22'
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OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 9/13/2024	
Signature Mayte Reyes		Signature and Seal of Professional Surveyor	
Date 9/19/2024			
Printed Name Mayte Reyes		Certificate Number 12177	Date of Survey 9/13/2024
Email Address mayte.x.reyes@conocophillips.com			

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

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

**SURFACE HOLE LOCATION
& KICK-OFF POINT**
1,130' FSL & 1,708' FEL
ELEV. = 2,945.22'

NAD 83 X = 638,215.48'
NAD 83 Y = 393,727.75'
NAD 83 LAT = 32.082051°
NAD 83 LONG = -104.020533°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FSL & 1,450' FEL

NAD 83 X = 638,470.04'
NAD 83 Y = 392,698.40'
NAD 83 LAT = 32.079219°
NAD 83 LONG = -104.019721°

PENETRATION POINT 2
0' FSL & 1,450' FEL

NAD 83 X = 638,485.40'
NAD 83 Y = 397,940.91'
NAD 83 LAT = 32.093631°
NAD 83 LONG = -104.019622°

PENETRATION POINT 3
0' FSL & 1,450' FEL

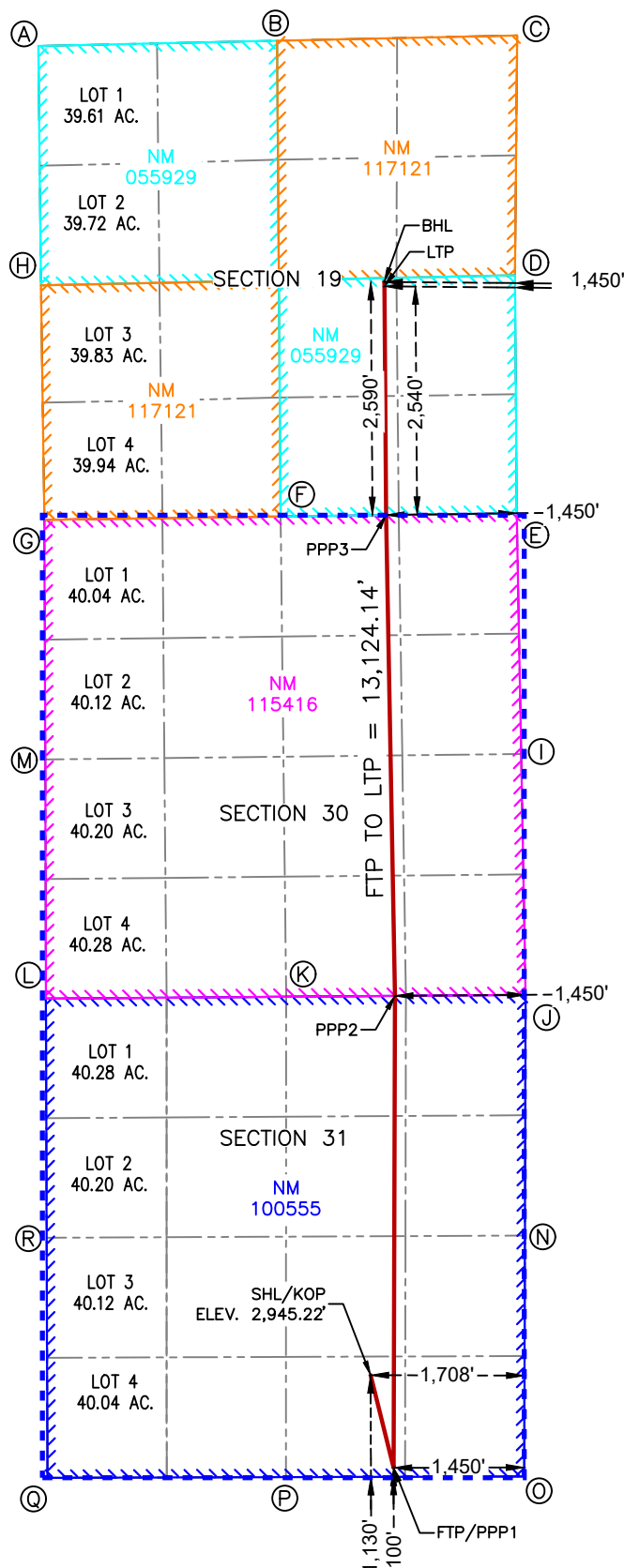
NAD 83 X = 638,387.42'
NAD 83 Y = 403,281.57'
NAD 83 LAT = 32.108312°
NAD 83 LONG = -104.019889°

LAST TAKE POINT
2,540' FSL & 1,450' FEL

NAD 83 X = 638,368.40'
NAD 83 Y = 405,821.55'
NAD 83 LAT = 32.115295°
NAD 83 LONG = -104.019926°

BOTTOM HOLE LOCATION
2,590' FSL & 1,450' FEL

NAD 83 X = 638,368.02'
NAD 83 Y = 405,871.55'
NAD 83 LAT = 32.115432°
NAD 83 LONG = -104.019927°



CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A	IRON PIPE W/ BRASS CAP N:408,491.76 E:634,527.03
B	IRON PIPE W/ BRASS CAP N:408,550.32 E:637,176.91
C	IRON PIPE W/ BRASS CAP N:408,608.72 E:639,842.20
D	IRON PIPE W/ BRASS CAP N:405,945.03 E:639,817.52
E	IRON PIPE W/ BRASS CAP N:403,301.58 E:639,837.28
F	IRON PIPE W/ BRASS CAP N:403,265.40 E:637,216.41
G	IRON PIPE W/ BRASS CAP N:403,228.52 E:634,593.72
H	IRON PIPE W/ BRASS CAP N:405,833.10 E:634,556.38
I	IRON PIPE W/ BRASS CAP N:400,627.62 E:639,886.49
J	IRON PIPE W/ BRASS CAP N:397,952.39 E:639,935.36
K	IRON PIPE W/ BRASS CAP N:397,931.36 E:637,278.26
L	IRON PIPE W/ BRASS CAP N:397,909.72 E:634,611.48
M	IRON PIPE W/ BRASS CAP N:400,566.94 E:634,605.07
N	IRON PIPE W/ BRASS CAP N:395,278.43 E:639,928.06
O	IRON PIPE W/ BRASS CAP N:392,602.51 E:639,919.75
P	IRON PIPE W/ BRASS CAP N:392,595.01 E:637,274.88
Q	IRON PIPE W/ BRASS CAP N:392,587.40 E:634,628.88
R	IRON PIPE W/ BRASS CAP N:395,253.80 E:634,619.28

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

WELL LOCATION INFORMATION

API Number 30-015-56221	Pool Code 96217	Pool Name Willow Lake; Bone Spring, Southeast
Property Code 336969	Property Name WILD THING FEDERAL COM	Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 2,945.22'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL O	Section 31	Township 25S	Range 29E	Lot	Ft. from N/S 1,130' FSL	Ft. from E/W 1,708' FEL	Latitude 32.082051	Longitude -104.020533	County EDDY
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Bottom Hole Location

UL J	Section 19	Township 25S	Range 29E	Lot	Ft. from N/S 2,590' FSL	Ft. from E/W 1,450' FEL	Latitude 32.115432	Longitude -104.019927	County EDDY
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Dedicated Acres 319.77	Infill or Defining Well Defining	Defining Well API Pending	Overlapping Spacing Unit (Y/N) Y	Consolidation Code COM
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL O	Section 31	Township 25S	Range 29E	Lot	Ft. from N/S 1,130' FSL	Ft. from E/W 1,708' FEL	Latitude 32.082051	Longitude -104.020533	County EDDY
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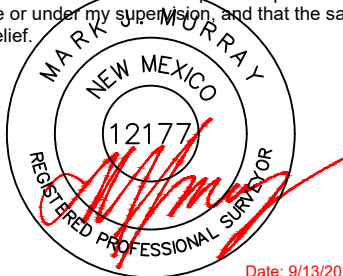
First Take Point (FTP)

UL O	Section 31	Township 25S	Range 29E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,450' FEL	Latitude 32.079219	Longitude -104.019721	County EDDY
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Last Take Point (LTP)

UL J	Section 19	Township 25S	Range 29E	Lot	Ft. from N/S 2,540' FSL	Ft. from E/W 1,450' FEL	Latitude 32.115295	Longitude -104.019926	County EDDY
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Signature Mayte Reyes		Signature and Seal of Professional Surveyor	
Date 9/19/2024			
Printed Name Mayte Reyes		Certificate Number 12177	Date of Survey 9/13/2024
Email Address mayte.x.reyes@conocophillips.com			

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

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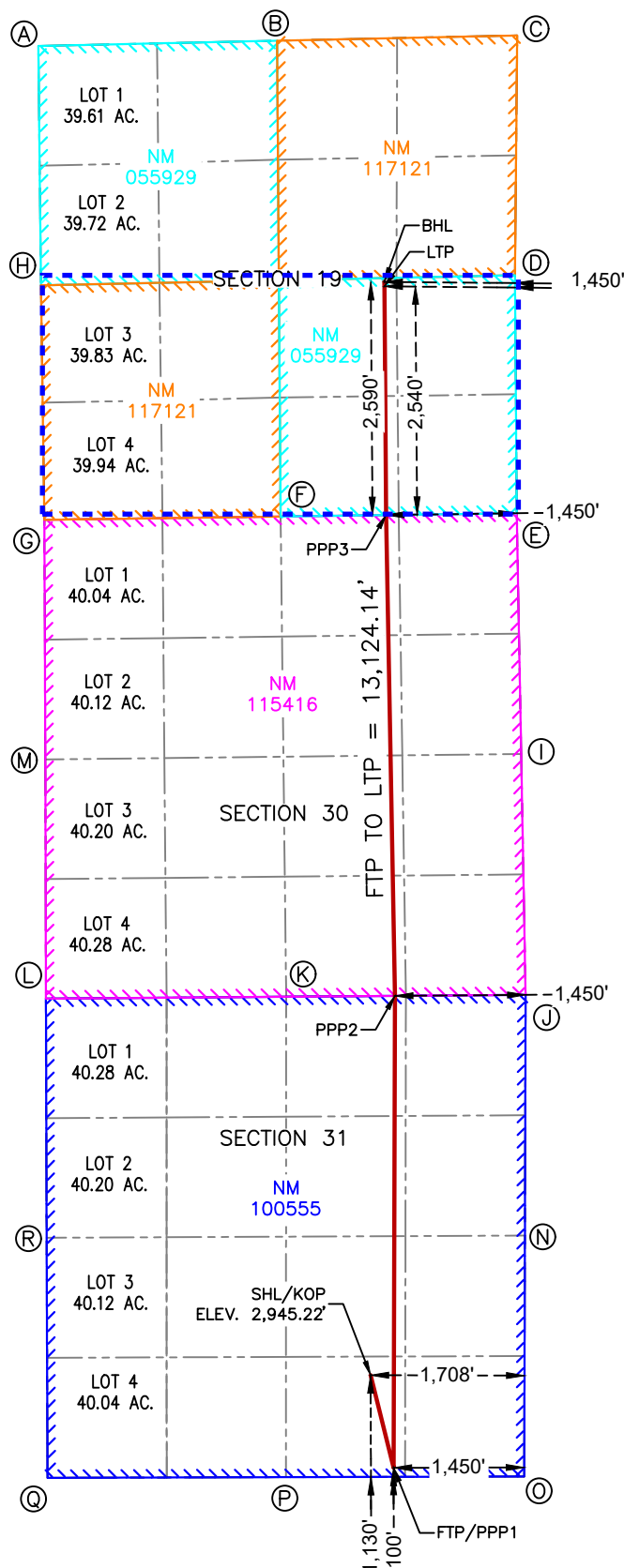
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LAST TAKE POINT
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BOTTOM HOLE LOCATION
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E	IRON PIPE W/ BRASS CAP N:403,301.58 E:639,837.28
F	IRON PIPE W/ BRASS CAP N:403,265.40 E:637,216.41
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H	IRON PIPE W/ BRASS CAP N:405,833.10 E:634,556.38
I	IRON PIPE W/ BRASS CAP N:400,627.62 E:639,886.49
J	IRON PIPE W/ BRASS CAP N:397,952.39 E:639,935.36
K	IRON PIPE W/ BRASS CAP N:397,931.36 E:637,278.26
L	IRON PIPE W/ BRASS CAP N:397,909.72 E:634,611.48
M	IRON PIPE W/ BRASS CAP N:400,566.94 E:634,605.07
N	IRON PIPE W/ BRASS CAP N:395,278.43 E:639,928.06
O	IRON PIPE W/ BRASS CAP N:392,602.51 E:639,919.75
P	IRON PIPE W/ BRASS CAP N:392,595.01 E:637,274.88
Q	IRON PIPE W/ BRASS CAP N:392,587.40 E:634,628.88
R	IRON PIPE W/ BRASS CAP N:395,253.80 E:634,619.28

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:** 11/10/24

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Wild Thing Federal Com 501H	30-015-	O-31-25S-29E	1130 FSL & 1708 FEL	± 763	± 1493	± 1567

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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Wild Thing Federal Com 501H	Pending	9/16/2024	± 25 days from spud	1/14/2025	1/24/2025	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/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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.

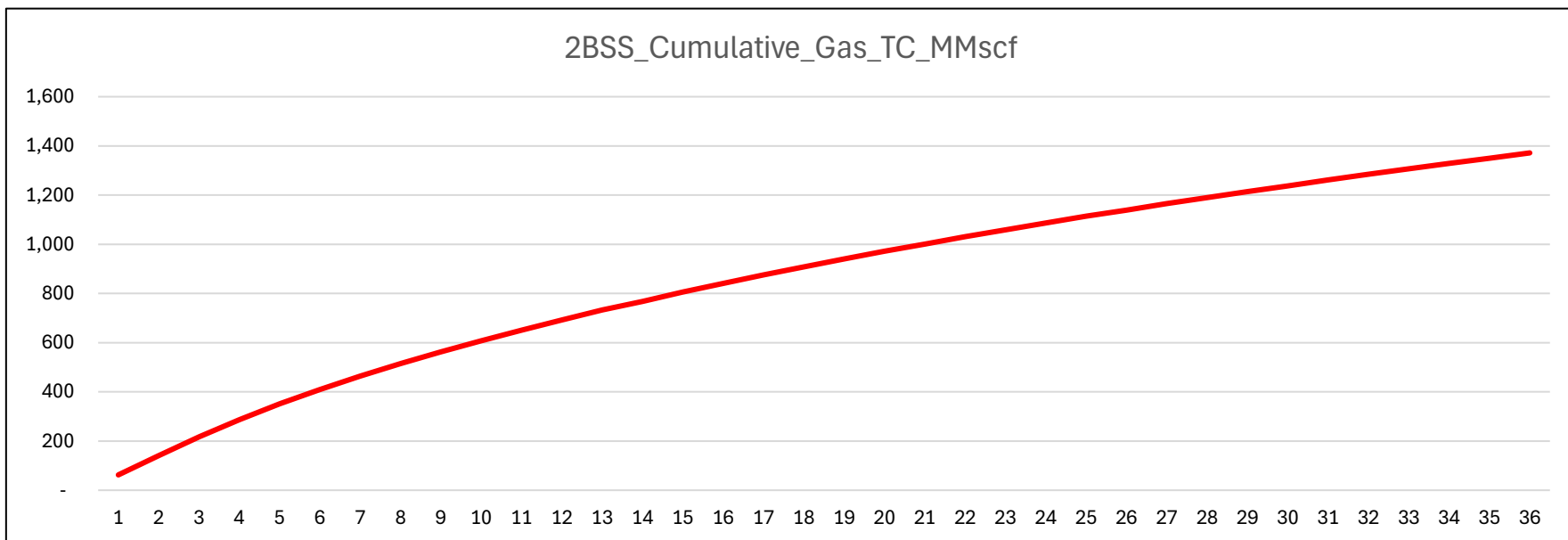
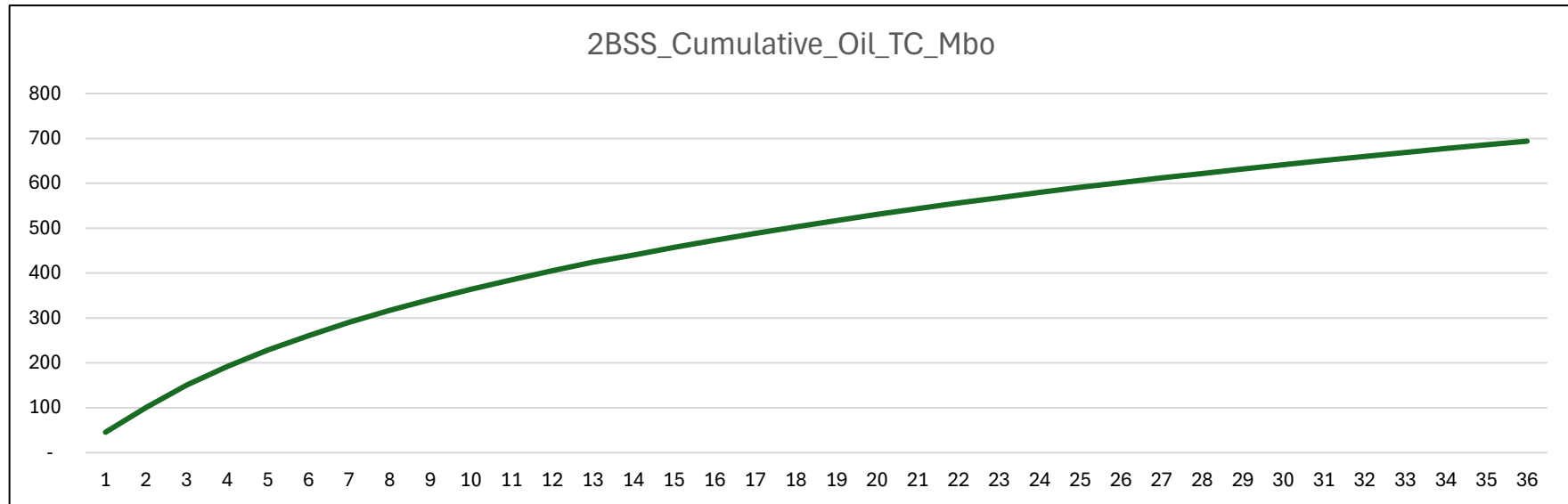
VIII. Best Management Practices

- 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:	<i>Mayte Reyes</i>
Printed Name:	Mayte Reyes
Title:	Sr. Regulatory Coordinator
E-mail Address:	mayte.x.reyes@conocophillips.com
Date:	11/10/2024
Phone:	575-748-6945
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Anticipated Production Decline Curve





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

APD Print Report

02/07/2025

APD ID: 10400094150

Submission Date: 08/24/2023

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Operator Name: COG OPERATING LLC

Federal/Indian APD: FED

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Well Type: OIL WELL

Well Work Type: Drill

Application

Section 1 - General

APD ID: 10400094150

Tie to previous NOS? N

Submission Date: 08/24/2023

BLM Office: Carlsbad

User: MAYTE REYES

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM100555

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator letter of

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVENUE

Zip: 79701-4287

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)685-4342

Operator Internet Address:

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: WILD THING FEDERAL COM

Field/Pool or Exploratory? Field and Pool

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Master Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Well Number: 501H

Field Name: WILLOW LAKE

Well API Number:

Pool Name: BONE SPRING, SOUTHEAST

Is the proposed well in a Helium production area? N

Type of Well Pad: MULTIPLE WELL

Well Class: HORIZONTAL

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Use Existing Well Pad? N

Multiple Well Pad Name: WILD THING FEDERAL COM

Number of Legs: 1

New surface disturbance? Number: 501H, 502H, 701H - 705H and 901H - 905H

Distance to town: 12 Miles

Distance to nearest well: 30 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 1601.05 Acres

Well plat: COG_Wild_Thing_501H_Rock_Spur_C102_20250107111206.pdf
COG_Wild_Thing_501H_Willow_Lake_C102_20250107111207.pdf

Well work start Date: 11/01/2025

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
----------	---------	--------------	---------	--------------	------	-------	---------	-------------------	----------	-----------	--------	-------	----------	------------	--------------	-----------	----	-----	----------------------------------

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1130	FSL	1708	FEL	25S	29E	31	Aliquot SWSE	32.082051	- 104.020533	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100555	2945	0	0	Y
KOP Leg #1	1130	FSL	1708	FEL	25S	29E	31	Aliquot SWSE	32.082051	- 104.020533	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100555	2945	0	0	Y
PPP Leg #1-1	100	FSL	1450	FEL	25S	29E	31	Aliquot SWSE	32.079219	- 104.019721	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100555	- 5306	8381	8251	Y
PPP Leg #1-2	1	FSL	1450	FEL	25S	29E	30	Aliquot SWSE	32.093631	- 104.019622	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 115416	- 5490	14231	8435	Y
EXIT Leg #1	2540	FSL	1450	FEL	25S	29E	19	Aliquot NWSE	32.115295	- 104.019926	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 55929	- 5490	21374	8435	Y
BHL Leg #1	2590	FSL	1450	FEL	25S	29E	19	Aliquot NWSE	32.115432	- 104.019927	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 55929	- 5490	21424	8435	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14937815	QUATERNARY	2945	0	0	ALLUVIUM	NONE	N
14937810	RUSTLER	2823	122	122	ANHYDRITE	USEABLE WATER	N
14937811	TOP SALT	2556	389	389	SALT	NONE	N
14937820	BASE OF SALT	358	2587	2587	SALT	NONE	N
14937813	LAMAR	167	2778	2778	LIMESTONE	NONE	N
14937814	BELL CANYON	129	2816	2816	SANDSTONE	NONE	N
14937821	CHERRY CANYON	-721	3666	3666	SANDSTONE	NATURAL GAS, OIL	N

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14937822	BRUSHY CANYON	-2025	4970	4970	SANDSTONE	NATURAL GAS, OIL	N
14937817	BONE SPRING	-3582	6527	6527	SANDSTONE	NATURAL GAS, OIL	N
14937824	BONE SPRING 1ST	-4529	7474	7474	SANDSTONE	NATURAL GAS, OIL	N
14937825	BONE SPRING 2ND	-5163	8108	8108	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M**Rating Depth:** 8435

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COG_Wild_Thing_10M_Choke_20250107131407.pdf

BOP Diagram Attachment:

COG_Wild_Thing_10M_BOP_20250107131510.pdf

COG_Wild_Thing_Flex_Hose_Variance_20250107131512.pdf

Pressure Rating (PSI): 5M**Rating Depth:** 7853

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COG_Wild_Thing_5M_Choke_20250107131226.pdf

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

COG_Wild_Thing_5M_Choke_20250107131226.pdf

BOP Diagram Attachment:

COG_Wild_Thing_5M_BOP_20250107131249.pdf

COG_Wild_Thing_Flex_Hose_Variance_20250107131250.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	370	0	370	2945	2575	370	J-55	45.5	OTHER - BTC	12.34	1.42	DRY	47.28	DRY	42.7
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	7853	0	7853	3585	-4908	7853	OTHER	29.7	OTHER - W513	1.8	2.18	DRY	2.75	DRY	4.
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	21424	0	8435	3585	-5490	21424	OTHER	23	OTHER - W441	2.46	2.86	DRY	3.41	DRY	3.

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_501H_Casing_Program_20250107132536.pdf

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Casing Attachments

Casing ID: 2 String INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_501H_Casing_Program_20250107132626.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_501H_Casing_Program_20250107132657.pdf

Casing ID: 3 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_501H_Casing_Program_20250107132307.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_501H_Casing_Program_20250107132435.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	370	230	1.75	12.8	402	50	Class C + 4% Gel	1% CaCl2
SURFACE	Tail		370	370	250	1.34	14.8	335	50	Class C + 2% CaCl2	As needed
INTERMEDIATE	Lead		7853	7853	570	3.3	10.3	1881	50	Halliburton tuned light	As needed
INTERMEDIATE	Tail		7853	7853	250	1.35	14.8	337	50	Class H	As needed

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		8435	2142 4	480	1.48	10.7	710	20	Lead: 50:50:10 H Blend	As needed
PRODUCTION	Tail		8435	2142 4	1040	1.34	13.2	1396	20	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times**Describe the mud monitoring system utilized:** PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
370	7853	OTHER : Diesel Brine Emulsion	8.4	10							Diesel Brine Emulsion
7853	2142 4	OIL-BASED MUD	9.6	13.5							OBM
0	370	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5925**Anticipated Surface Pressure:** 4069**Anticipated Bottom Hole Temperature(F):** 145**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

COG_Wild_Thing_H2S_Schem_20250107133514.pdf

COG_Wild_Thing_H2S_SUP_20250107133514.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Wild_Thing_501H_AC_Report_20250107133607.pdf

COG_Wild_Thing_501H_Directional_Plan_20250107133607.pdf

Other proposed operations facets description:

Drilling Plan attached.

GCP attached.

Cement Plan attached.

Other proposed operations facets attachment:

API_BTC_7.625_0.375_L80_ICY_04112022_20250107133703.pdf

COG_Wild_Thing_501H_Drilling_Program_20250107133704.pdf

API_BTC_9.625_0.395_L80_Type_1_01172023_20250107133705.pdf

API_STC_13.375_0.380_J55_Casing_01172023_20250107133706.pdf

COG_Wild_Thing_501H_Cement_Program_20250107133706.pdf

COG_Wild_Thing_501H_Casing_Program_20250107133706.pdf

TXP_BTC_5.500_0.415_P110_CY_09212021_20250107133706.pdf

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

COG_Wild_Thing_501H_GCP_20250107133706.pdf

Wedge_441_5.500_0.415_P110_CY_09212021_20250107133707.pdf

Wedge_513_7.625_0.375_P110_ICY_04112022_20250107133707.pdf

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

SUPO

Section 1 - Existing Roads**Will existing roads be used?** YES**Existing Road Map:**

COG_Wild_Thing_Existing_Road_20250107133811.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT**Row(s) Exist?** NO**ROW ID(s)****ID:****Do the existing roads need to be improved?** YES**Existing Road Improvement Description:** Existing roads will be maintained in the same condition or better.**Existing Road Improvement Attachment:****Section 2 - New or Reconstructed Access Roads****Will new roads be needed?** YES**New Road Map:**

COG_Wild_Thing_Federal_Com_Access_Roads_20250107134049.pdf

New road type: RESOURCE**Length:** 649.12 Feet**Width (ft.):** 30**Max slope (%):** 33**Max grade (%):** 1**Army Corp of Engineers (ACOE) permit required?** N**ACOE Permit Number(s):****New road travel width:** 20**New road access erosion control:** Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.**New road access plan or profile prepared?** N**New road access plan**

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Access road engineering design?** N**Access road engineering design****Turnout?** N**Access surfacing type:** OTHER**Access topsoil source:** ONSITE**Access surfacing type description:** Caliche**Access onsite topsoil source depth:** 6**Offsite topsoil source description:****Onsite topsoil removal process:** Blading**Access other construction information:** No turnouts are planned.**Access miscellaneous information:****Number of access turnouts:****Access turnout map:****Drainage Control****New road drainage crossing:** OTHER**Drainage Control comments:** None necessary**Road Drainage Control Structures (DCS) description:** None needed.**Road Drainage Control Structures (DCS) attachment:****Access Additional Attachments**

Section 3 - Location of Existing Wells

Existing Wells Map? YES**Attach Well map:**

COG_Wild_Thing_501H_1_Mile_Data_20250107134356.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Wild Thing Federal CTBs. These CTBs will be built to accommodate the Wild Thing Fed Com #501H, #502, #503, #504, #701, #702, #703, #704, #705, #706, #707, #708, #709, #710, #901, #902, #903, #904, #905, #906, #907, #908, #909, #910. We plan to install (1) buried 6 FP 601HT production flowline with MAWP of 1500 psi from each wellhead to the inlet manifold of the proposed CTB (24 lines total); the route for these flowlines will follow the flowlines route as shown in the diagram below. We will install (1) buried 6 gas line for gas lift supply with MAWP of 1500 psi from the CTB to the well pad; the route for the gas lift line will follow the gas lift route as shown in layout below. We will install (1)

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

buried 6 liquid return line with MAWP of 1500 psi for compressor liquids from the CTB to the well pad; the route for the liquid return lines will follow the liquid return route as shown in layout.

Production Facilities map:

COG_Wild_Thing_East_Pad_CTB_20250107134554.pdf

COG_Wild_Thing_East_Pad_Layout_20250107134555.pdf

COG_Wild_Thing_Federal_Com_Powerlines_20250107134556.pdf

COG_Wild_Thing_Federal_Com_SS_20250107134557.pdf

COG_Wild_Thing_Federal_Com_Flowlines_20250107134838.pdf

Section 5 - Location and Types of Water Supply**Water Source Table****Water source type:** OTHER**Describe type:** Brine Water**Water source use type:** INTERMEDIATE/PRODUCTION
CASING**Source latitude:** **Source longitude:****Source datum:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** TRUCKING**Source land ownership:** COMMERCIAL**Source transportation land ownership:** COMMERCIAL**Water source volume (barrels):** 30000**Source volume (acre-feet):** 3.866793**Source volume (gal):** 1260000**Water source type:** OTHER**Describe type:** Fresh Water**Water source use type:** SURFACE CASING
STIMULATION
ICE PAD CONSTRUCTION &
MAINTENANCE**Source latitude:** **Source longitude:****Source datum:****Water source permit type:** PRIVATE CONTRACT

Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Water source transport method:** PIPELINE**Source land ownership:** PRIVATE**Source transportation land ownership:** PRIVATE**Water source volume (barrels):** 450000**Source volume (acre-feet):** 58.001892**Source volume (gal):** 18900000**Water source and transportation**

COG_Wild_Thing_Brine_H2O_Map_20230818162928.pdf

COG_Wild_Thing_H2O_Map_20230818162929.pdf

Water source comments: See attached maps**New water well?** N**New Water Well Info****Well latitude:****Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

Section 6 - Construction Materials

Using any construction materials: YES**Construction Materials description:** Caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche source will be from the MEC caliche pit located in Sec 34. T25S. R29E. SESE**Construction Materials source location**

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** Drilling fluids and produced oil land water while drilling and completion operations**Amount of waste:** 6000 barrels**Waste disposal frequency :** One Time Only**Safe containment description:** All drilling waste will be stored safely and disposed of properly**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Trucked to an approved disposal facility**Waste type:** SEWAGE**Waste content description:** Human waste and gray water**Amount of waste:** 1000 gallons**Waste disposal frequency :** One Time Only**Safe containment description:** Waste will be properly contained and disposed of properly at a state approved disposal facility.**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Trucked to an approved disposal facility**Waste type:** GARBAGE**Waste content description:** Garbage and trash produced during drilling and completion operations.**Amount of waste:** 500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility**Safe containmant attachment:**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Trucked to an approved disposal facility.

Reserve Pit

Reserve Pit being used? NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

Cuttings Area

Cuttings Area being used? NO**Are you storing cuttings on location?** Y**Description of cuttings location** Roll off cutting containers on tracks**Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:** Gas Capture Plan attached

Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

Section 9 - Well Site

Well Site Layout Diagram:

COG_Wild_Thing_East_Pad_Layout_20250107134934.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** WILD THING FEDERAL COM**Multiple Well Pad Number:** 501H, 502H, 701H - 705H and 901H - 905H

Recontouring

COG_Wild_Thing_East_Pad_Reclamation_20250107134954.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used at the well site to control erosion, runoff, and siltation of the surrounding area. Straw waddles will be used as necessary at the well site to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: The wellsite drainage will be monitored periodically to ensure that vegetation has re-established in unused areas of the pad and that erosion is controlled.

Well pad proposed disturbance (acres): 9.55	Well pad interim reclamation (acres): 0.23	Well pad long term disturbance (acres): 8.99
Road proposed disturbance (acres): 0.45	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.45
Powerline proposed disturbance (acres): 1.83	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 1.83
Pipeline proposed disturbance (acres): 3.88	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 3.88
Other proposed disturbance (acres): 5.74	Other interim reclamation (acres): 0	Other long term disturbance (acres): 5.74
Total proposed disturbance: 21.450000000000003	Total interim reclamation: 0.23	Total long term disturbance: 20.89

Disturbance Comments:

Reconstruction method: If needed, portions of the pad not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused. The stockpiled topsoil will be spread out over reclaimed area and reseeded with BLM approved seed mixture.

Topsoil redistribution: South, Southwest.

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the road

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Existing Vegetation Community at the pipeline:** Shinnery Oak/Mesquite grassland**Existing Vegetation Community at the pipeline****Existing Vegetation Community at other disturbances:** N/A**Existing Vegetation Community at other disturbances****Non native seed used?** N**Non native seed description:****Seedling transplant description:****Will seedlings be transplanted for this project?** N**Seedling transplant description****Will seed be harvested for use in site reclamation?** N**Seed harvest description:****Seed harvest description attachment:****Seed****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official****First Name:** Chris**Last Name:** Moon**Phone:** (432)288-2283**Email:** chris.moon@conocophillips.com**Seedbed prep:****Seed BMP:****Seed method:****Existing invasive species?** N**Existing invasive species treatment description:**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Existing invasive species treatment****Weed treatment plan description:** COP will maintain well pad and CTB with chemical treatment as necessary.**Weed treatment plan****Monitoring plan description:** N/A**Monitoring plan****Success standards:** N/A**Pit closure description:** N/A**Pit closure attachment:**

COG_Wild_Thing_Closed_Loop_20250107135723.pdf

Section 11 - Surface Ownership**Disturbance type:** EXISTING ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Disturbance type:** PIPELINE**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Disturbance type:** WELL PAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Section 12 - Other****Right of Way needed?** N**Use APD as ROW?****ROW Type(s):****ROW**

SUPO Additional Information: Federal Surface. Surface Use & Operating Plan. Attached. On-site was done by Gerald Herrera (COG); Zane Kirsch (BLM); on May 2nd, 2023.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

COG_Wild_Thing_Brine_H2O_Map_20230818165107.pdf
COG_Wild_Thing_H2O_Map_20230818165108.pdf
COG_Wild_Thing_501H_1_Mile_Data_20250107135947.pdf
COG_Wild_Thing_East_Pad_CTB_20250107135950.pdf
COG_Wild_Thing_501H_Rock_Spur_C102_20250107135950.pdf
COG_Wild_Thing_501H_Willow_Lake_C102_20250107135950.pdf
COG_Wild_Thing_East_Pad_Reclamation_20250107135950.pdf
COG_Wild_Thing_East_Pad_Layout_20250107135951.pdf
COG_Wild_Thing_Federal_Com_Access_Roads_20250107135952.pdf
COG_Wild_Thing_Closed_Loop_20250107135953.pdf
COG_Wild_Thing_Federal_Com_Flowlines_20250107135953.pdf
COG_Wild_Thing_H2S_Schem_20250107135953.pdf
COG_Wild_Thing_Federal_Com_Powerlines_20250107135953.pdf
COG_Wild_Thing_Federal_Com_SS_20250107135955.pdf
COG_Wild_Thing_Existing_Road_20250107135954.pdf

PWD

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Section 1 - General****Would you like to address long-term produced water disposal?** NO**Section 2 - Lined****Would you like to utilize Lined Pit PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Lined pit PWD on or off channel:****Lined pit PWD discharge volume (bbl/day):****Lined pit****Pit liner description:****Pit liner manufacturers****Precipitated solids disposal:****Describe precipitated solids disposal:****Precipitated solids disposal****Lined pit precipitated solids disposal schedule:****Lined pit precipitated solids disposal schedule****Lined pit reclamation description:****Lined pit reclamation****Leak detection system description:****Leak detection system****Lined pit Monitor description:****Lined pit Monitor****Lined pit: do you have a reclamation bond for the pit?****Is the reclamation bond a rider under the BLM bond?**

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Lined pit bond number:****Lined pit bond amount:****Additional bond information****Section 3 - Unlined****Would you like to utilize Unlined Pit PWD options?** N**Produced Water Disposal (PWD) Location:****PWD disturbance (acres):****PWD surface owner:****Unlined pit PWD on or off channel:****Unlined pit PWD discharge volume (bbl/day):****Unlined pit****Precipitated solids disposal:****Describe precipitated solids disposal:****Precipitated solids disposal****Unlined pit precipitated solids disposal schedule:****Unlined pit precipitated solids disposal schedule****Unlined pit reclamation description:****Unlined pit reclamation****Unlined pit Monitor description:****Unlined pit Monitor****Do you propose to put the produced water to beneficial use?****Beneficial use user****Estimated depth of the shallowest aquifer (feet):****Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?****TDS lab results:****Geologic and hydrologic****State****Unlined Produced Water Pit Estimated****Unlined pit: do you have a reclamation bond for the pit?****Is the reclamation bond a rider under the BLM bond?****Unlined pit bond number:****Unlined pit bond amount:**

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Additional bond information****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 -****Would you like to utilize Other PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):****Other PWD type description:**

Approval Date: 01/29/2025

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Operator Name: COG OPERATING LLC	
Well Name: WILD THING FEDERAL COM	Well Number: 501H

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

Bond Info

Bond

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

Operator Certification

Payment Info

Payment

APD Fee Payment Method: PAY.GOV

pay.gov Tracking ID: 277DJF77

CONFIDENTIAL



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

Application Data

02/07/2025

APD ID: 10400094150

Submission Date: 08/24/2023

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400094150

Tie to previous NOS? N

Submission Date: 08/24/2023

BLM Office: Carlsbad

User: MAYTE REYES

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM100555

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator letter of

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVENUE

Zip: 79701-4287

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)685-4342

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILLOW LAKE

Pool Name: BONE SPRING,
SOUTHEAST

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N

Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: WILD
THING FEDERAL COMNumber: 501H, 502H, 701H -
705H and 901H - 905H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 12 Miles

Distance to nearest well: 30 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 1601.05 Acres

Well plat: COG_Wild_Thing_501H_Rock_Spur_C102_20250107111206.pdf

COG_Wild_Thing_501H_Willow_Lake_C102_20250107111207.pdf

Well work start Date: 11/01/2025

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	113 0	FSL	170 8	FEL	25S	29E	31	Aliquot SWSE	32.08205 1	- 104.0205 33	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 100555	294 5	0	0	Y
KOP Leg #1	113 0	FSL	170 8	FEL	25S	29E	31	Aliquot SWSE	32.08205 1	- 104.0205 33	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 100555	294 5	0	0	Y

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FSL	1450	FEL	25S	29E	31	Aliquot SWSE	32.079219	- 104.019721	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100555	- 5306	8381	8251	Y
PPP Leg #1-2	1	FSL	1450	FEL	25S	29E	30	Aliquot SWSE	32.093631	- 104.019622	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 115416	- 5490	14231	8435	Y
EXIT Leg #1	2540	FSL	1450	FEL	25S	29E	19	Aliquot NWSE	32.115295	- 104.019926	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 55929	- 5490	21374	8435	Y
BHL Leg #1	2590	FSL	1450	FEL	25S	29E	19	Aliquot NWSE	32.115432	- 104.019927	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 55929	- 5490	21424	8435	Y



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

Drilling Plan Data Report

02/07/2025

APD ID: 10400094150

Submission Date: 08/24/2023

Highlighted data
reflects the most
recent changes

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14937815	QUATERNARY	2945	0	0	ALLUVIUM	NONE	N
14937810	RUSTLER	2823	122	122	ANHYDRITE	USEABLE WATER	N
14937811	TOP SALT	2556	389	389	SALT	NONE	N
14937820	BASE OF SALT	358	2587	2587	SALT	NONE	N
14937813	LAMAR	167	2778	2778	LIMESTONE	NONE	N
14937814	BELL CANYON	129	2816	2816	SANDSTONE	NONE	N
14937821	CHERRY CANYON	-721	3666	3666	SANDSTONE	NATURAL GAS, OIL	N
14937822	BRUSHY CANYON	-2025	4970	4970	SANDSTONE	NATURAL GAS, OIL	N
14937817	BONE SPRING	-3582	6527	6527	SANDSTONE	NATURAL GAS, OIL	N
14937824	BONE SPRING 1ST	-4529	7474	7474	SANDSTONE	NATURAL GAS, OIL	N
14937825	BONE SPRING 2ND	-5163	8108	8108	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 8435

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system

Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COG_Wild_Thing_10M_Choke_20250107131407.pdf

BOP Diagram Attachment:

COG_Wild_Thing_10M_BOP_20250107131510.pdf

COG_Wild_Thing_Flex_Hose_Variance_20250107131512.pdf

Pressure Rating (PSI): 5M**Rating Depth:** 7853

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COG_Wild_Thing_5M_Choke_20250107131226.pdf

BOP Diagram Attachment:

COG_Wild_Thing_5M_BOP_20250107131249.pdf

COG_Wild_Thing_Flex_Hose_Variance_20250107131250.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	370	0	370	2945	2575	370	J-55	45.5	OTHER - BTC	12.34	1.42	DRY	47.28	DRY	42.47
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	7853	0	7853	3585	-4908	7853	OTHER	29.7	OTHER - W513	1.8	2.18	DRY	2.75	DRY	4.58
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	21424	0	8435	3585	-5490	21424	OTHER	23	OTHER - W441	2.46	2.86	DRY	3.41	DRY	3.76

Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H**Casing Attachments****Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

COG_Wild_Thing_501H_Casing_Program_20250107132536.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:**

COG_Wild_Thing_501H_Casing_Program_20250107132626.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_501H_Casing_Program_20250107132657.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:**

COG_Wild_Thing_501H_Casing_Program_20250107132307.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_501H_Casing_Program_20250107132435.pdf

Section 4 - Cement

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	370	230	1.75	12.8	402	50	Class C + 4% Gel	1% CaCl2
SURFACE	Tail		370	370	250	1.34	14.8	335	50	Class C + 2% CaCl2	As needed
INTERMEDIATE	Lead		7853	7853	570	3.3	10.3	1881	50	Halliburton tuned light	As needed
INTERMEDIATE	Tail		7853	7853	250	1.35	14.8	337	50	Class H	As needed
PRODUCTION	Lead		8435	2142 4	480	1.48	10.7	710	20	Lead: 50:50:10 H Blend	As needed
PRODUCTION	Tail		8435	2142 4	1040	1.34	13.2	1396	20	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
370	7853	OTHER : Diesel Brine Emulsion	8.4	10							Diesel Brine Emulsion
7853	2142 4	OIL-BASED MUD	9.6	13.5							OBM
0	370	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Operator Name: COG OPERATING LLC**Well Name:** WILD THING FEDERAL COM**Well Number:** 501H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5925**Anticipated Surface Pressure:** 4069**Anticipated Bottom Hole Temperature(F):** 145**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

COG_Wild_Thing_H2S_Schem_20250107133514.pdf

COG_Wild_Thing_H2S_SUP_20250107133514.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Wild_Thing_501H_AC_Report_20250107133607.pdf

COG_Wild_Thing_501H_Directional_Plan_20250107133607.pdf

Other proposed operations facets description:

Drilling Plan attached.

GCP attached.

Cement Plan attached.

Other proposed operations facets attachment:

API_BTC_7.625_0.375_L80_ICY_04112022_20250107133703.pdf

COG_Wild_Thing_501H_Drilling_Program_20250107133704.pdf

API_BTC_9.625_0.395_L80_Type_1_01172023_20250107133705.pdf

API_STC_13.375_0.380_J55_Casing_01172023_20250107133706.pdf

COG_Wild_Thing_501H_Cement_Program_20250107133706.pdf

COG_Wild_Thing_501H_Casing_Program_20250107133706.pdf

TXP_BTC_5.500_0.415_P110_CY_09212021_20250107133706.pdf

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 501H

COG_Wild_Thing_501H_GCP_20250107133706.pdf

Wedge_441_5.500_0.415_P110_CY_09212021_20250107133707.pdf

Wedge_513_7.625_0.375_P110_ICY_04112022_20250107133707.pdf

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

CONFIDENTIAL

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

WILD THING PROJECT

_WILD THING FED COM 501H

OWB

Plan: PWP0

Standard Planning Report

09 October, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	4/11/2023	6.61	59.67	47,390.71879545

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.82

Plan Survey Tool Program		Date	10/9/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,424.4 PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

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	
2,031.4	10.63	165.64	2,028.4	-47.6	12.2	2.00	2.00	0.00	165.64	
6,828.6	10.63	165.64	6,743.2	-904.8	231.6	0.00	0.00	0.00	0.00	
7,891.4	0.00	0.00	7,800.0	-1,000.0	256.0	1.00	-1.00	0.00	180.00	
7,953.4	0.00	0.00	7,862.0	-1,000.0	256.0	0.00	0.00	0.00	0.00	
8,853.4	90.00	359.64	8,435.0	-427.1	252.4	10.00	10.00	-0.04	359.64	
21,424.4	90.00	359.64	8,435.0	12,143.7	174.4	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	2.00	165.64	1,600.0	-1.7	0.4	-1.7	2.00	2.00	0.00
1,700.0	4.00	165.64	1,699.8	-6.8	1.7	-6.7	2.00	2.00	0.00
1,800.0	6.00	165.64	1,799.5	-15.2	3.9	-15.1	2.00	2.00	0.00
1,900.0	8.00	165.64	1,898.7	-27.0	6.9	-26.9	2.00	2.00	0.00
2,000.0	10.00	165.64	1,997.5	-42.2	10.8	-42.0	2.00	2.00	0.00
2,031.4	10.63	165.64	2,028.4	-47.6	12.2	-47.4	2.00	2.00	0.00
2,100.0	10.63	165.64	2,095.8	-59.9	15.3	-59.6	0.00	0.00	0.00
2,200.0	10.63	165.64	2,194.1	-77.7	19.9	-77.4	0.00	0.00	0.00
2,300.0	10.63	165.64	2,292.3	-95.6	24.5	-95.2	0.00	0.00	0.00
2,400.0	10.63	165.64	2,390.6	-113.5	29.0	-113.0	0.00	0.00	0.00
2,500.0	10.63	165.64	2,488.9	-131.3	33.6	-130.8	0.00	0.00	0.00
2,600.0	10.63	165.64	2,587.2	-149.2	38.2	-148.6	0.00	0.00	0.00
2,700.0	10.63	165.64	2,685.5	-167.1	42.8	-166.4	0.00	0.00	0.00
2,800.0	10.63	165.64	2,783.8	-184.9	47.3	-184.2	0.00	0.00	0.00
2,900.0	10.63	165.64	2,882.1	-202.8	51.9	-202.0	0.00	0.00	0.00
3,000.0	10.63	165.64	2,980.3	-220.7	56.5	-219.8	0.00	0.00	0.00
3,100.0	10.63	165.64	3,078.6	-238.5	61.1	-237.6	0.00	0.00	0.00
3,200.0	10.63	165.64	3,176.9	-256.4	65.6	-255.4	0.00	0.00	0.00
3,300.0	10.63	165.64	3,275.2	-274.3	70.2	-273.2	0.00	0.00	0.00
3,400.0	10.63	165.64	3,373.5	-292.2	74.8	-291.0	0.00	0.00	0.00
3,500.0	10.63	165.64	3,471.8	-310.0	79.4	-308.8	0.00	0.00	0.00
3,600.0	10.63	165.64	3,570.0	-327.9	83.9	-326.6	0.00	0.00	0.00
3,700.0	10.63	165.64	3,668.3	-345.8	88.5	-344.4	0.00	0.00	0.00
3,800.0	10.63	165.64	3,766.6	-363.6	93.1	-362.2	0.00	0.00	0.00
3,900.0	10.63	165.64	3,864.9	-381.5	97.7	-380.0	0.00	0.00	0.00
4,000.0	10.63	165.64	3,963.2	-399.4	102.2	-397.9	0.00	0.00	0.00
4,100.0	10.63	165.64	4,061.5	-417.2	106.8	-415.7	0.00	0.00	0.00
4,200.0	10.63	165.64	4,159.8	-435.1	111.4	-433.5	0.00	0.00	0.00
4,300.0	10.63	165.64	4,258.0	-453.0	116.0	-451.3	0.00	0.00	0.00
4,400.0	10.63	165.64	4,356.3	-470.8	120.5	-469.1	0.00	0.00	0.00
4,500.0	10.63	165.64	4,454.6	-488.7	125.1	-486.9	0.00	0.00	0.00
4,600.0	10.63	165.64	4,552.9	-506.6	129.7	-504.7	0.00	0.00	0.00
4,700.0	10.63	165.64	4,651.2	-524.4	134.3	-522.5	0.00	0.00	0.00
4,800.0	10.63	165.64	4,749.5	-542.3	138.8	-540.3	0.00	0.00	0.00
4,900.0	10.63	165.64	4,847.7	-560.2	143.4	-558.1	0.00	0.00	0.00
5,000.0	10.63	165.64	4,946.0	-578.0	148.0	-575.9	0.00	0.00	0.00
5,100.0	10.63	165.64	5,044.3	-595.9	152.6	-593.7	0.00	0.00	0.00
5,200.0	10.63	165.64	5,142.6	-613.8	157.1	-611.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	10.63	165.64	5,240.9	-631.6	161.7	-629.3	0.00	0.00	0.00
5,400.0	10.63	165.64	5,339.2	-649.5	166.3	-647.1	0.00	0.00	0.00
5,500.0	10.63	165.64	5,437.4	-667.4	170.8	-664.9	0.00	0.00	0.00
5,600.0	10.63	165.64	5,535.7	-685.2	175.4	-682.7	0.00	0.00	0.00
5,700.0	10.63	165.64	5,634.0	-703.1	180.0	-700.5	0.00	0.00	0.00
5,800.0	10.63	165.64	5,732.3	-721.0	184.6	-718.3	0.00	0.00	0.00
5,900.0	10.63	165.64	5,830.6	-738.9	189.1	-736.1	0.00	0.00	0.00
6,000.0	10.63	165.64	5,928.9	-756.7	193.7	-753.9	0.00	0.00	0.00
6,100.0	10.63	165.64	6,027.2	-774.6	198.3	-771.7	0.00	0.00	0.00
6,200.0	10.63	165.64	6,125.4	-792.5	202.9	-789.5	0.00	0.00	0.00
6,300.0	10.63	165.64	6,223.7	-810.3	207.4	-807.3	0.00	0.00	0.00
6,400.0	10.63	165.64	6,322.0	-828.2	212.0	-825.1	0.00	0.00	0.00
6,500.0	10.63	165.64	6,420.3	-846.1	216.6	-842.9	0.00	0.00	0.00
6,600.0	10.63	165.64	6,518.6	-863.9	221.2	-860.7	0.00	0.00	0.00
6,700.0	10.63	165.64	6,616.9	-881.8	225.7	-878.5	0.00	0.00	0.00
6,800.0	10.63	165.64	6,715.1	-899.7	230.3	-896.3	0.00	0.00	0.00
6,828.6	10.63	165.64	6,743.2	-904.8	231.6	-901.4	0.00	0.00	0.00
6,900.0	9.91	165.64	6,813.5	-917.1	234.8	-913.6	1.00	-1.00	0.00
7,000.0	8.91	165.64	6,912.2	-933.0	238.8	-929.4	1.00	-1.00	0.00
7,100.0	7.91	165.64	7,011.1	-947.1	242.5	-943.6	1.00	-1.00	0.00
7,200.0	6.91	165.64	7,110.2	-959.6	245.7	-956.0	1.00	-1.00	0.00
7,300.0	5.91	165.64	7,209.6	-970.5	248.4	-966.8	1.00	-1.00	0.00
7,400.0	4.91	165.64	7,309.2	-979.6	250.8	-975.9	1.00	-1.00	0.00
7,500.0	3.91	165.64	7,408.9	-987.1	252.7	-983.3	1.00	-1.00	0.00
7,600.0	2.91	165.64	7,508.7	-992.8	254.2	-989.1	1.00	-1.00	0.00
7,700.0	1.91	165.64	7,608.6	-996.9	255.2	-993.1	1.00	-1.00	0.00
7,800.0	0.91	165.64	7,708.6	-999.3	255.8	-995.5	1.00	-1.00	0.00
7,891.4	0.00	0.00	7,800.0	-1,000.0	256.0	-996.2	1.00	-1.00	0.00
7,900.0	0.00	0.00	7,808.6	-1,000.0	256.0	-996.2	0.00	0.00	0.00
7,953.4	0.00	0.00	7,862.0	-1,000.0	256.0	-996.2	0.00	0.00	0.00
8,000.0	4.66	359.64	7,908.5	-998.1	256.0	-994.3	10.00	10.00	0.00
8,050.0	9.66	359.64	7,958.1	-991.9	255.9	-988.1	10.00	10.00	0.00
8,100.0	14.66	359.64	8,007.0	-981.4	255.9	-977.6	10.00	10.00	0.00
8,150.0	19.66	359.64	8,054.7	-966.6	255.8	-962.8	10.00	10.00	0.00
8,200.0	24.66	359.64	8,101.0	-947.8	255.7	-944.0	10.00	10.00	0.00
8,250.0	29.66	359.64	8,145.5	-924.9	255.5	-921.2	10.00	10.00	0.00
8,300.0	34.66	359.64	8,187.8	-898.3	255.4	-894.6	10.00	10.00	0.00
8,350.0	39.66	359.64	8,227.7	-868.2	255.2	-864.4	10.00	10.00	0.00
8,400.0	44.66	359.64	8,264.7	-834.6	255.0	-830.9	10.00	10.00	0.00
8,450.0	49.66	359.64	8,298.7	-798.0	254.7	-794.2	10.00	10.00	0.00
8,500.0	54.66	359.64	8,329.4	-758.5	254.5	-754.8	10.00	10.00	0.00
8,550.0	59.66	359.64	8,356.5	-716.5	254.2	-712.8	10.00	10.00	0.00
8,600.0	64.66	359.64	8,379.8	-672.3	254.0	-668.6	10.00	10.00	0.00
8,650.0	69.66	359.64	8,399.2	-626.2	253.7	-622.5	10.00	10.00	0.00
8,700.0	74.66	359.64	8,414.5	-578.7	253.4	-575.0	10.00	10.00	0.00
8,750.0	79.66	359.64	8,425.6	-529.9	253.1	-526.2	10.00	10.00	0.00
8,800.0	84.66	359.64	8,432.5	-480.4	252.8	-476.7	10.00	10.00	0.00
8,853.4	90.00	359.64	8,435.0	-427.1	252.4	-423.4	10.00	10.00	0.00
8,900.0	90.00	359.64	8,435.0	-380.5	252.2	-376.8	0.00	0.00	0.00
9,000.0	90.00	359.64	8,435.0	-280.5	251.5	-276.8	0.00	0.00	0.00
9,100.0	90.00	359.64	8,435.0	-180.5	250.9	-176.9	0.00	0.00	0.00
9,200.0	90.00	359.64	8,435.0	-80.5	250.3	-76.9	0.00	0.00	0.00
9,300.0	90.00	359.64	8,435.0	19.5	249.7	23.1	0.00	0.00	0.00
9,400.0	90.00	359.64	8,435.0	119.5	249.1	123.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,500.0	90.00	359.64	8,435.0	219.5	248.4	223.0	0.00	0.00	0.00	
9,600.0	90.00	359.64	8,435.0	319.5	247.8	323.0	0.00	0.00	0.00	
9,700.0	90.00	359.64	8,435.0	419.5	247.2	423.0	0.00	0.00	0.00	
9,800.0	90.00	359.64	8,435.0	519.5	246.6	523.0	0.00	0.00	0.00	
9,900.0	90.00	359.64	8,435.0	619.5	245.9	623.0	0.00	0.00	0.00	
10,000.0	90.00	359.64	8,435.0	719.5	245.3	722.9	0.00	0.00	0.00	
10,100.0	90.00	359.64	8,435.0	819.5	244.7	822.9	0.00	0.00	0.00	
10,200.0	90.00	359.64	8,435.0	919.5	244.1	922.9	0.00	0.00	0.00	
10,300.0	90.00	359.64	8,435.0	1,019.5	243.5	1,022.9	0.00	0.00	0.00	
10,400.0	90.00	359.64	8,435.0	1,119.5	242.8	1,122.9	0.00	0.00	0.00	
10,500.0	90.00	359.64	8,435.0	1,219.5	242.2	1,222.8	0.00	0.00	0.00	
10,600.0	90.00	359.64	8,435.0	1,319.5	241.6	1,322.8	0.00	0.00	0.00	
10,700.0	90.00	359.64	8,435.0	1,419.5	241.0	1,422.8	0.00	0.00	0.00	
10,800.0	90.00	359.64	8,435.0	1,519.5	240.4	1,522.8	0.00	0.00	0.00	
10,900.0	90.00	359.64	8,435.0	1,619.5	239.7	1,622.8	0.00	0.00	0.00	
11,000.0	90.00	359.64	8,435.0	1,719.5	239.1	1,722.7	0.00	0.00	0.00	
11,100.0	90.00	359.64	8,435.0	1,819.5	238.5	1,822.7	0.00	0.00	0.00	
11,200.0	90.00	359.64	8,435.0	1,919.5	237.9	1,922.7	0.00	0.00	0.00	
11,300.0	90.00	359.64	8,435.0	2,019.5	237.3	2,022.7	0.00	0.00	0.00	
11,400.0	90.00	359.64	8,435.0	2,119.5	236.6	2,122.6	0.00	0.00	0.00	
11,500.0	90.00	359.64	8,435.0	2,219.5	236.0	2,222.6	0.00	0.00	0.00	
11,600.0	90.00	359.64	8,435.0	2,319.5	235.4	2,322.6	0.00	0.00	0.00	
11,700.0	90.00	359.64	8,435.0	2,419.5	234.8	2,422.6	0.00	0.00	0.00	
11,800.0	90.00	359.64	8,435.0	2,519.5	234.2	2,522.6	0.00	0.00	0.00	
11,900.0	90.00	359.64	8,435.0	2,619.5	233.5	2,622.5	0.00	0.00	0.00	
12,000.0	90.00	359.64	8,435.0	2,719.5	232.9	2,722.5	0.00	0.00	0.00	
12,100.0	90.00	359.64	8,435.0	2,819.5	232.3	2,822.5	0.00	0.00	0.00	
12,200.0	90.00	359.64	8,435.0	2,919.5	231.7	2,922.5	0.00	0.00	0.00	
12,300.0	90.00	359.64	8,435.0	3,019.4	231.1	3,022.5	0.00	0.00	0.00	
12,400.0	90.00	359.64	8,435.0	3,119.4	230.4	3,122.4	0.00	0.00	0.00	
12,500.0	90.00	359.64	8,435.0	3,219.4	229.8	3,222.4	0.00	0.00	0.00	
12,600.0	90.00	359.64	8,435.0	3,319.4	229.2	3,322.4	0.00	0.00	0.00	
12,700.0	90.00	359.64	8,435.0	3,419.4	228.6	3,422.4	0.00	0.00	0.00	
12,800.0	90.00	359.64	8,435.0	3,519.4	228.0	3,522.4	0.00	0.00	0.00	
12,900.0	90.00	359.64	8,435.0	3,619.4	227.3	3,622.3	0.00	0.00	0.00	
13,000.0	90.00	359.64	8,435.0	3,719.4	226.7	3,722.3	0.00	0.00	0.00	
13,100.0	90.00	359.64	8,435.0	3,819.4	226.1	3,822.3	0.00	0.00	0.00	
13,200.0	90.00	359.64	8,435.0	3,919.4	225.5	3,922.3	0.00	0.00	0.00	
13,300.0	90.00	359.64	8,435.0	4,019.4	224.8	4,022.2	0.00	0.00	0.00	
13,400.0	90.00	359.64	8,435.0	4,119.4	224.2	4,122.2	0.00	0.00	0.00	
13,500.0	90.00	359.64	8,435.0	4,219.4	223.6	4,222.2	0.00	0.00	0.00	
13,600.0	90.00	359.64	8,435.0	4,319.4	223.0	4,322.2	0.00	0.00	0.00	
13,700.0	90.00	359.64	8,435.0	4,419.4	222.4	4,422.2	0.00	0.00	0.00	
13,800.0	90.00	359.64	8,435.0	4,519.4	221.7	4,522.1	0.00	0.00	0.00	
13,900.0	90.00	359.64	8,435.0	4,619.4	221.1	4,622.1	0.00	0.00	0.00	
14,000.0	90.00	359.64	8,435.0	4,719.4	220.5	4,722.1	0.00	0.00	0.00	
14,100.0	90.00	359.64	8,435.0	4,819.4	219.9	4,822.1	0.00	0.00	0.00	
14,200.0	90.00	359.64	8,435.0	4,919.4	219.3	4,922.1	0.00	0.00	0.00	
14,300.0	90.00	359.64	8,435.0	5,019.4	218.6	5,022.0	0.00	0.00	0.00	
14,400.0	90.00	359.64	8,435.0	5,119.4	218.0	5,122.0	0.00	0.00	0.00	
14,500.0	90.00	359.64	8,435.0	5,219.4	217.4	5,222.0	0.00	0.00	0.00	
14,600.0	90.00	359.64	8,435.0	5,319.4	216.8	5,322.0	0.00	0.00	0.00	
14,700.0	90.00	359.64	8,435.0	5,419.4	216.2	5,421.9	0.00	0.00	0.00	
14,800.0	90.00	359.64	8,435.0	5,519.4	215.5	5,521.9	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,900.0	90.00	359.64	8,435.0	5,619.4	214.9	5,621.9	0.00	0.00	0.00	
15,000.0	90.00	359.64	8,435.0	5,719.4	214.3	5,721.9	0.00	0.00	0.00	
15,100.0	90.00	359.64	8,435.0	5,819.4	213.7	5,821.9	0.00	0.00	0.00	
15,200.0	90.00	359.64	8,435.0	5,919.4	213.1	5,921.8	0.00	0.00	0.00	
15,300.0	90.00	359.64	8,435.0	6,019.4	212.4	6,021.8	0.00	0.00	0.00	
15,400.0	90.00	359.64	8,435.0	6,119.4	211.8	6,121.8	0.00	0.00	0.00	
15,500.0	90.00	359.64	8,435.0	6,219.4	211.2	6,221.8	0.00	0.00	0.00	
15,600.0	90.00	359.64	8,435.0	6,319.4	210.6	6,321.8	0.00	0.00	0.00	
15,700.0	90.00	359.64	8,435.0	6,419.4	210.0	6,421.7	0.00	0.00	0.00	
15,800.0	90.00	359.64	8,435.0	6,519.4	209.3	6,521.7	0.00	0.00	0.00	
15,900.0	90.00	359.64	8,435.0	6,619.4	208.7	6,621.7	0.00	0.00	0.00	
16,000.0	90.00	359.64	8,435.0	6,719.4	208.1	6,721.7	0.00	0.00	0.00	
16,100.0	90.00	359.64	8,435.0	6,819.4	207.5	6,821.7	0.00	0.00	0.00	
16,200.0	90.00	359.64	8,435.0	6,919.4	206.9	6,921.6	0.00	0.00	0.00	
16,300.0	90.00	359.64	8,435.0	7,019.4	206.2	7,021.6	0.00	0.00	0.00	
16,400.0	90.00	359.64	8,435.0	7,119.4	205.6	7,121.6	0.00	0.00	0.00	
16,500.0	90.00	359.64	8,435.0	7,219.4	205.0	7,221.6	0.00	0.00	0.00	
16,600.0	90.00	359.64	8,435.0	7,319.4	204.4	7,321.5	0.00	0.00	0.00	
16,700.0	90.00	359.64	8,435.0	7,419.4	203.7	7,421.5	0.00	0.00	0.00	
16,800.0	90.00	359.64	8,435.0	7,519.4	203.1	7,521.5	0.00	0.00	0.00	
16,900.0	90.00	359.64	8,435.0	7,619.4	202.5	7,621.5	0.00	0.00	0.00	
17,000.0	90.00	359.64	8,435.0	7,719.4	201.9	7,721.5	0.00	0.00	0.00	
17,100.0	90.00	359.64	8,435.0	7,819.4	201.3	7,821.4	0.00	0.00	0.00	
17,200.0	90.00	359.64	8,435.0	7,919.4	200.6	7,921.4	0.00	0.00	0.00	
17,300.0	90.00	359.64	8,435.0	8,019.4	200.0	8,021.4	0.00	0.00	0.00	
17,400.0	90.00	359.64	8,435.0	8,119.4	199.4	8,121.4	0.00	0.00	0.00	
17,500.0	90.00	359.64	8,435.0	8,219.3	198.8	8,221.4	0.00	0.00	0.00	
17,600.0	90.00	359.64	8,435.0	8,319.3	198.2	8,321.3	0.00	0.00	0.00	
17,700.0	90.00	359.64	8,435.0	8,419.3	197.5	8,421.3	0.00	0.00	0.00	
17,800.0	90.00	359.64	8,435.0	8,519.3	196.9	8,521.3	0.00	0.00	0.00	
17,900.0	90.00	359.64	8,435.0	8,619.3	196.3	8,621.3	0.00	0.00	0.00	
18,000.0	90.00	359.64	8,435.0	8,719.3	195.7	8,721.3	0.00	0.00	0.00	
18,100.0	90.00	359.64	8,435.0	8,819.3	195.1	8,821.2	0.00	0.00	0.00	
18,200.0	90.00	359.64	8,435.0	8,919.3	194.4	8,921.2	0.00	0.00	0.00	
18,300.0	90.00	359.64	8,435.0	9,019.3	193.8	9,021.2	0.00	0.00	0.00	
18,400.0	90.00	359.64	8,435.0	9,119.3	193.2	9,121.2	0.00	0.00	0.00	
18,500.0	90.00	359.64	8,435.0	9,219.3	192.6	9,221.1	0.00	0.00	0.00	
18,600.0	90.00	359.64	8,435.0	9,319.3	192.0	9,321.1	0.00	0.00	0.00	
18,700.0	90.00	359.64	8,435.0	9,419.3	191.3	9,421.1	0.00	0.00	0.00	
18,800.0	90.00	359.64	8,435.0	9,519.3	190.7	9,521.1	0.00	0.00	0.00	
18,900.0	90.00	359.64	8,435.0	9,619.3	190.1	9,621.1	0.00	0.00	0.00	
19,000.0	90.00	359.64	8,435.0	9,719.3	189.5	9,721.0	0.00	0.00	0.00	
19,100.0	90.00	359.64	8,435.0	9,819.3	188.9	9,821.0	0.00	0.00	0.00	
19,200.0	90.00	359.64	8,435.0	9,919.3	188.2	9,921.0	0.00	0.00	0.00	
19,300.0	90.00	359.64	8,435.0	10,019.3	187.6	10,021.0	0.00	0.00	0.00	
19,400.0	90.00	359.64	8,435.0	10,119.3	187.0	10,121.0	0.00	0.00	0.00	
19,500.0	90.00	359.64	8,435.0	10,219.3	186.4	10,220.9	0.00	0.00	0.00	
19,600.0	90.00	359.64	8,435.0	10,319.3	185.8	10,320.9	0.00	0.00	0.00	
19,700.0	90.00	359.64	8,435.0	10,419.3	185.1	10,420.9	0.00	0.00	0.00	
19,800.0	90.00	359.64	8,435.0	10,519.3	184.5	10,520.9	0.00	0.00	0.00	
19,900.0	90.00	359.64	8,435.0	10,619.3	183.9	10,620.8	0.00	0.00	0.00	
20,000.0	90.00	359.64	8,435.0	10,719.3	183.3	10,720.8	0.00	0.00	0.00	
20,100.0	90.00	359.64	8,435.0	10,819.3	182.6	10,820.8	0.00	0.00	0.00	
20,200.0	90.00	359.64	8,435.0	10,919.3	182.0	10,920.8	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ WILD THING FED COM 501H
Company:	DELAWARE BASIN WEST	TVD Reference:	GL @ 2943.0usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	GL @ 2943.0usft
Site:	WILD THING PROJECT	North Reference:	Grid
Well:	_ WILD THING FED COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

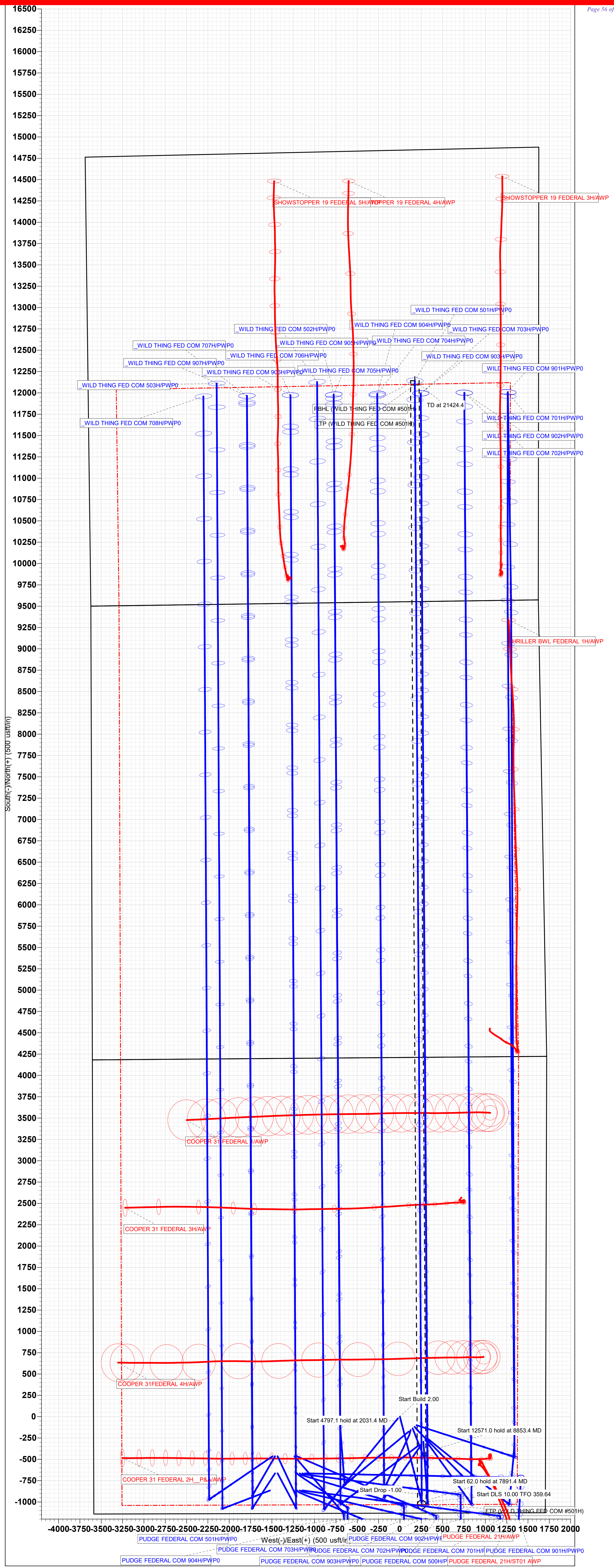
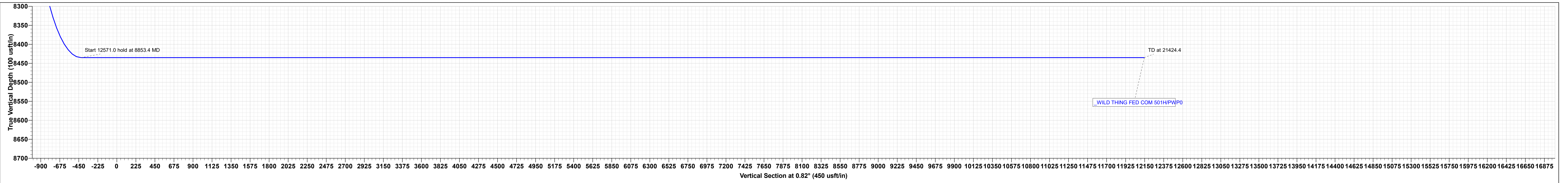
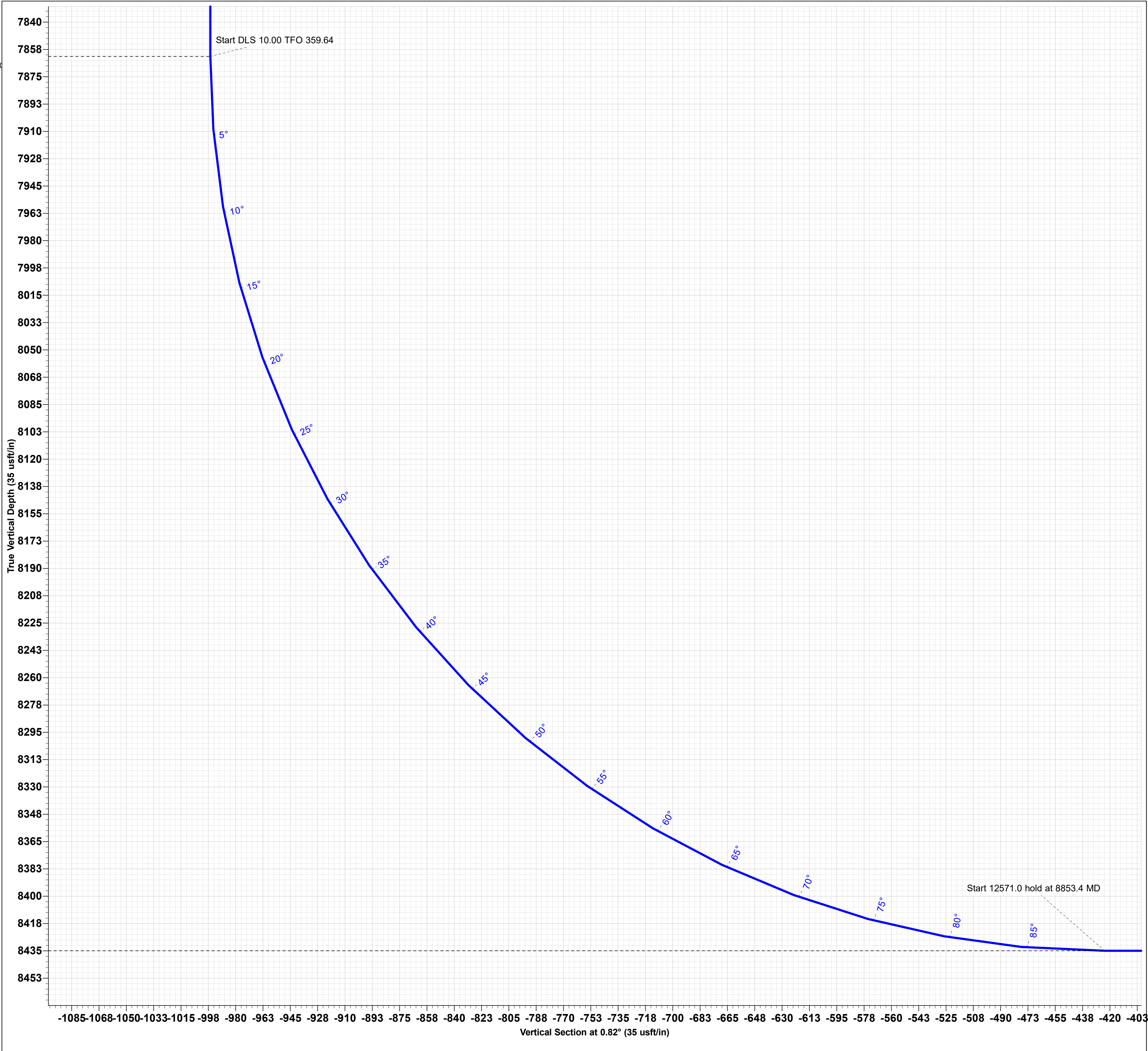
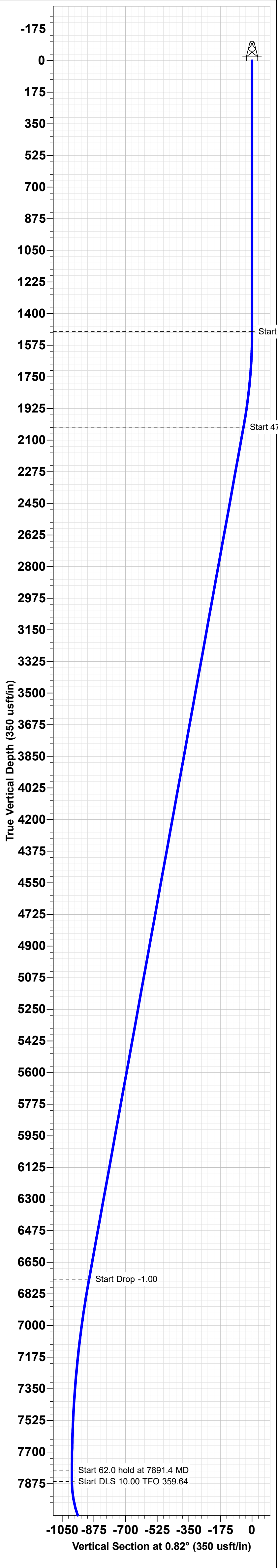
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,300.0	90.00	359.64	8,435.0	11,019.3	181.4	11,020.8	0.00	0.00	0.00	
20,400.0	90.00	359.64	8,435.0	11,119.3	180.8	11,120.7	0.00	0.00	0.00	
20,500.0	90.00	359.64	8,435.0	11,219.3	180.2	11,220.7	0.00	0.00	0.00	
20,600.0	90.00	359.64	8,435.0	11,319.3	179.5	11,320.7	0.00	0.00	0.00	
20,700.0	90.00	359.64	8,435.0	11,419.3	178.9	11,420.7	0.00	0.00	0.00	
20,800.0	90.00	359.64	8,435.0	11,519.3	178.3	11,520.7	0.00	0.00	0.00	
20,900.0	90.00	359.64	8,435.0	11,619.3	177.7	11,620.6	0.00	0.00	0.00	
21,000.0	90.00	359.64	8,435.0	11,719.3	177.1	11,720.6	0.00	0.00	0.00	
21,100.0	90.00	359.64	8,435.0	11,819.3	176.4	11,820.6	0.00	0.00	0.00	
21,200.0	90.00	359.64	8,435.0	11,919.3	175.8	11,920.6	0.00	0.00	0.00	
21,300.0	90.00	359.64	8,435.0	12,019.3	175.2	12,020.6	0.00	0.00	0.00	
21,400.0	90.00	359.64	8,435.0	12,119.3	174.6	12,120.5	0.00	0.00	0.00	
21,424.4	90.00	359.64	8,435.0	12,143.7	174.4	12,145.0	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
FTP (WILD THING FED	0.00	0.00	8,415.0	-1,029.3	254.5	392,640.58	597,285.05	32° 4' 44.743 N	104° 1' 9.249 W	
- plan misses target center by 244.7usft at 8380.7usft MD (8250.8 TVD, -847.9 N, 255.1 E)										
- Circle (radius 50.0)										
LTP (WILD THING FED	90.00	359.69	8,435.0	12,093.7	174.4	405,763.62	597,204.91	32° 6' 54.617 N	104° 1' 9.737 W	
- plan misses target center by 0.4usft at 21374.4usft MD (8435.0 TVD, 12093.7 N, 174.7 E)										
- Circle (radius 50.0)										
PBHL (WILD THING FEI	0.00	179.64	8,435.0	12,143.7	174.4	405,813.63	597,204.95	32° 6' 55.112 N	104° 1' 9.735 W	
- plan hits target center										
- Rectangle (sides W100.0 H13,173.2 D20.0)										



Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: WILD THING FED COM 501H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
2031.4	10.63	165.64	2028.4	-47.6	12.2	2.00	165.64	-47.4	
6828.6	10.63	165.64	6743.2	-904.8	231.6	0.00	0.00	-901.4	
7891.4	0.00	0.00	7800.0	-1000.0	256.0	1.00	180.00	-996.2	
7953.4	0.00	0.00	7862.0	-1000.0	256.0	0.00	0.00	-996.2	
8853.4	90.00	359.64	8435.0	-427.1	252.4	10.00	359.64	-423.4	
21424.4	90.00	359.64	8435.0	12143.7	174.4	0.00	0.00	12145.0	



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

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

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		5. Lease Serial No. NMNM100555 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. WILD THING FEDERAL COM 501H 9. API Well No.
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory WILLOW LAKE/BONE SPRING, SOUTHE 11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T25S/R29E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 1130 FSL / 1708 FEL / LAT 32.082051 / LONG -104.020533 At proposed prod. zone NWSE / 2590 FSL / 1450 FEL / LAT 32.115432 / LONG -104.019927		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 12 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1601.05		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 19. Proposed Depth 8435 feet / 21424 feet 20. BLM/BIA Bond No. in file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2945 feet 22. Approximate date work will start* 11/01/2025 23. Estimated duration 30 days		24. Attachments

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

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

25. Signature (Electronic Submission) Title Regulatory Analyst	Name (Printed/Typed) MAYTE REYES / Ph: (432) 683-7443	Date 08/24/2023
Approved by (Signature) (Electronic Submission) Title Petroleum Engineer	Name (Printed/Typed) CHRISTOPHER WALLS / Ph: (575) 234-2234 Office Carlsbad Field Office	Date 01/29/2025

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

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



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWSE / 1130 FSL / 1708 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.082051 / LONG: -104.020533 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.079219 / LONG: -104.019721 (TVD: 8251 feet, MD: 8381 feet)

PPP: SWSE / 1 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 30 / LAT: 32.093631 / LONG: -104.019622 (TVD: 8435 feet, MD: 14231 feet)

BHL: NWSE / 2590 FSL / 1450 FEL / TWSP: 25S / RANGE: 29E / SECTION: 19 / LAT: 32.115432 / LONG: -104.019927 (TVD: 8435 feet, MD: 21424 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR’S NAME:	COG Operating, LLC
LEASE NO.:	NMNM100555
COUNTY:	Eddy County, New Mexico

Wells:

Wild Thing West Well Pad

Wild Thing Federal Com #503H
Wild Thing Federal Com #504H
Wild Thing Federal Com #706H
Wild Thing Federal Com #707H
Wild Thing Federal Com #708H
Wild Thing Federal Com #709H
Wild Thing Federal Com #710H
Wild Thing Federal Com #906H
Wild Thing Federal Com #907H
Wild Thing Federal Com #908H
Wild Thing Federal Com #909H
Wild Thing Federal Com #910H

Wild Thing East Well Pad

Wild Thing Federal Com #501H
Wild Thing Federal Com #502H
Wild Thing Federal Com #701H
Wild Thing Federal Com #702H
Wild Thing Federal Com #703H
Wild Thing Federal Com #704H
Wild Thing Federal Com #705H
Wild Thing Federal Com #901H
Wild Thing Federal Com #902H
Wild Thing Federal Com #903H
Wild Thing Federal Com #904H
Wild Thing Federal Com #905H

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (*Peganum harmala*)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. Downfacing

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control.

2.1.1. Tank Battery

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.2. Electric Line(s)

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

2.2. CAVE/KARST

2.2.1. General Construction

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- This is a sensitive area and all spills or leaks will be reported to the BLM immediately for their immediate and proper treatment, as defined in NTL 3A for Major Undesirable Events.

2.2.2. Pad Construction

- The pad will be constructed and leveled by adding the necessary fill and caliche. No blasting will be used for any construction or leveling activities.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

2.2.3. Road Construction

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

2.2.4. Buried Pipeline/Cable Construction

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

2.2.5. Powerline Construction

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

2.2.6. Surface Flowlines Installation

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

2.2.7. Production Mitigation

- Tank battery locations and facilities will be bermed and lined with a 20-mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity).
- Implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.2.8. Residual and Cumulative Mitigation

The operator will perform annual pressure monitoring on all casing annuli. If the test results indicate a casing failure has occurred, contact a BLM Engineer immediately, and take remedial action to correct the problem.

2.2.9. Plugging and Abandonment Mitigation

Upon well abandonment in high cave karst areas, additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

2.3 WILDLIFE

2.3. Texas Hornshell Mussel

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- Provide CEHMM with the permit, lease, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

2.4 VISUAL RESOURCE MANAGEMENT

2.5.1 VRM IV

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain enclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of enclosure fencing design, refer to BLM's Oil and Gas Gold Book, Enclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACCESS ROAD

3.7.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 Ditching

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

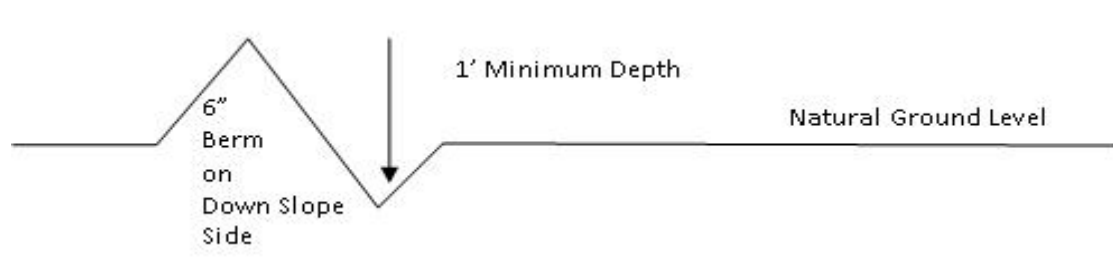
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4} + 100' = 200' \text{ lead-off ditch interval}$$

3.7.7 Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

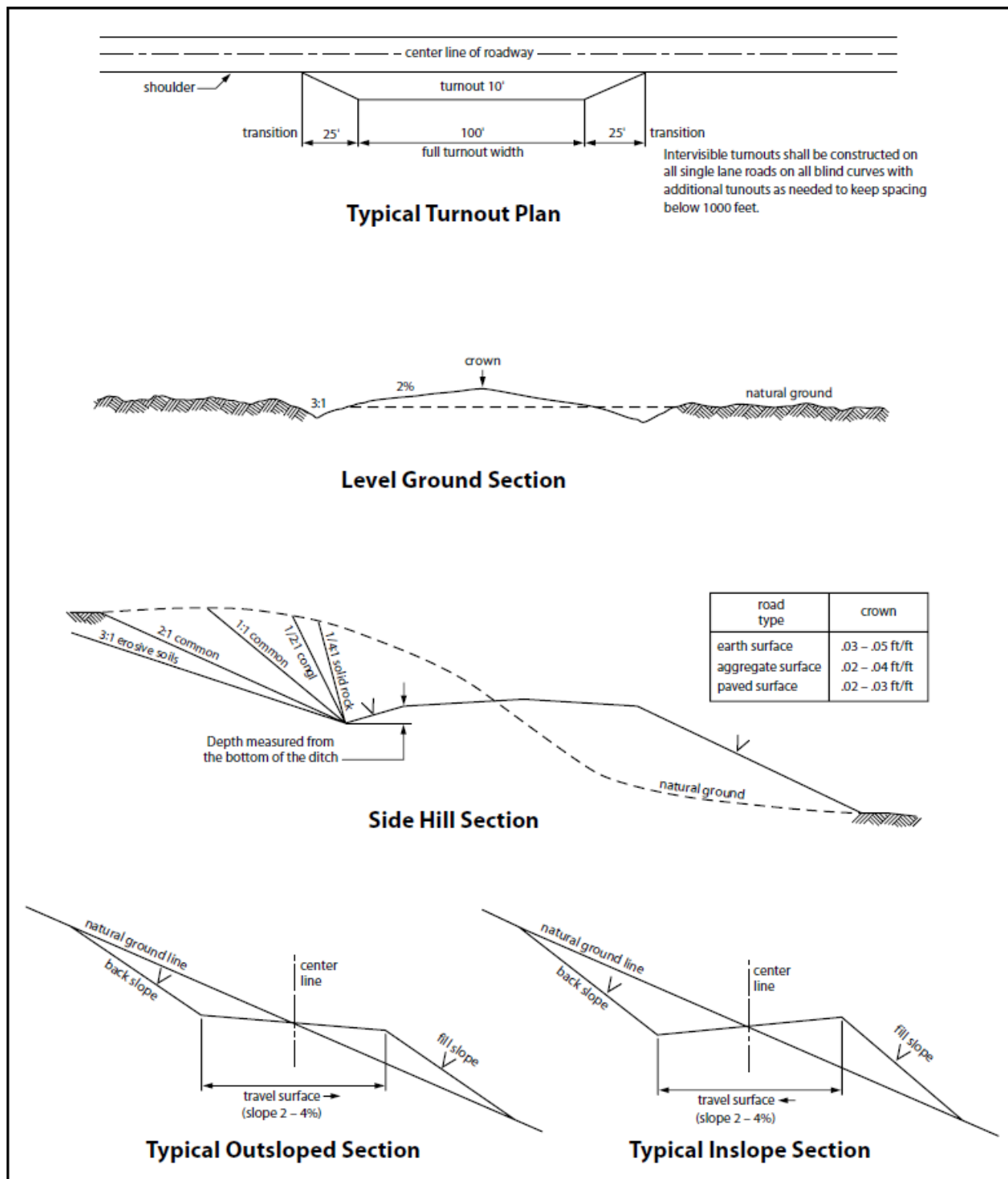


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.
10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.
12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

14. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered, alignments may be rerouted to avoid the karst feature and lessen the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.2 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.
12. Karst stipulations for overhead electric lines
 - Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
 - The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
 - No further construction will be done until clearance has been issued by the Authorized Officer.
 - Special restoration stipulations or realignment may be required.

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its

prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. *(Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.)* Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permittee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	WILD THING FED COM 501H
SURFACE HOLE FOOTAGE:	1130'/S & 1708'/E
BOTTOM HOLE FOOTAGE:	2590'/S & 1450'/E
LOCATION:	Section 31, T.25 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **350 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Contingency:

Operator has proposed a contingency if losses are encountered, a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.** The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Contingency Casing Design if large water flows are encountered:

4. The 13-3/8 inch surface casing shall be set at approximately **350 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
- e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
7. **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.** The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New

Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- Overlap clearance OK for production interval

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation

at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

- v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 1/22/2025

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

OFFICE

COG OPERATING LLC OFFICE	575-748-6940
CHAD GREGORY	432-894-5590

EMERGENCY RESPONSE NUMBERS

OFFICE

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

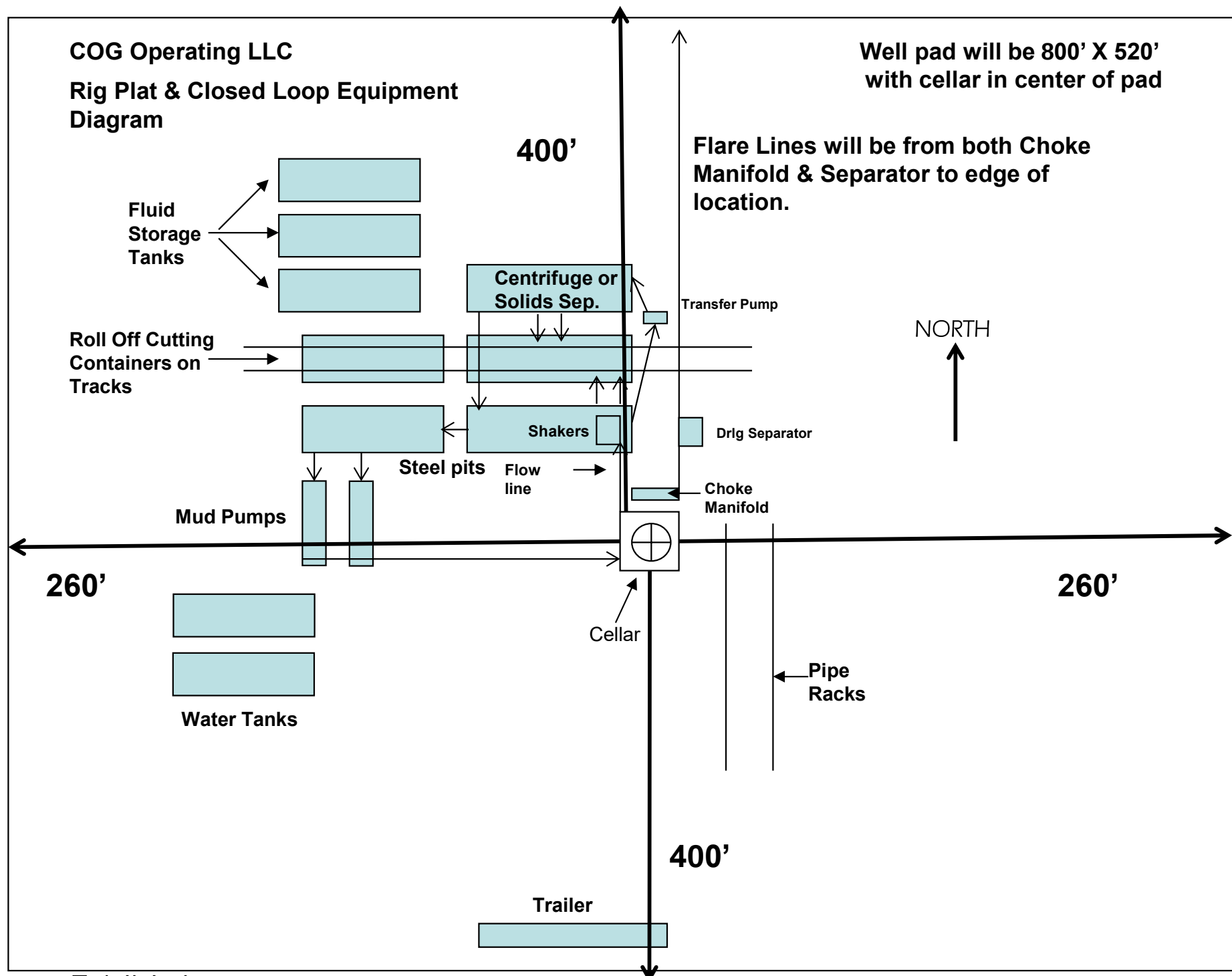


Exhibit 1

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

ConocoPhillips Company - WILD THING FEDERAL COM 501H

1. Geologic Formations

TVD of target	8,435' EOL	Pilot hole depth	NA
MD at TD:	21,424'	Deepest expected fresh water:	314'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	122	Water	
Top of Salt	389	Salt	
Base of Salt	2587	Salt	
Lamar	2778	Salt Water	
Bell Canyon	2816	Salt Water	
Cherry Canyon	3666	Oil/Gas	
Brushy Canyon	4970	Oil/Gas	
Bone Spring	6527	Oil/Gas	
1st Bone Spring Sand	7474	Oil/Gas	
2nd Bone Spring Sand	8108	Target	
3rd Bone Spring Sand	0	Not Penetrated	
Wolfcamp	0	Not Penetrated	
Wolfcamp A	0	Not Penetrated	
Wolfcamp B	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	370	13.375"	45.5	J55	BTC	12.34	1.42	42.47	47.28
9.875"	0	6000	7.625"	29.7	L80-ICY	BTC	1.89	1.44	4.07	4.11
8.750"	6000	7853	7.625"	29.7	P110-ICY	W513	1.80	2.18	4.58	2.75
6.75"	0	7653	5.5"	23	P110-CY	BTC	2.71	3.15	4.14	4.14
6.75"	7653	21,424	5.5"	23	P110-CY	W441	2.46	2.86	3.76	3.41
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	370	13.375"	54.5	J55	BTC	6.67	2.43	42.30	45.08
12.25"	0	2680	9.625"	40	L80-IC	BTC	2.78	1.87	8.54	8.83
8.75"	2480	7853	7.625"	29.7	P110-ICY	W513	1.80	2.18	4.58	2.75
6.75"	0	7653	5.5"	23	P110-CY	BTC	2.71	3.15	4.14	4.14
6.75"	7653	21,424	5.5"	23	P110-CY	W441	2.46	2.86	3.76	3.41
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

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

December 17, 2024

1

ConocoPhillips Company - WILD THING FEDERAL COM 501H

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

ConocoPhillips Company - WILD THING FEDERAL COM 501H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	570	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	480	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1040	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	7,353'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	320	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	500	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1040	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	2,480'	20%
Production	7,353'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - WILD THING FEDERAL COM 501H**4. Pressure Control Equipment**

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2.
Y	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - WILD THING FEDERAL COM 501H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

6. Logging and Testing Procedures

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

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

ConocoPhillips Company - WILD THING FEDERAL COM 501H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5925 psi at 8435' TVD
Abnormal Temperature	NO 145 Deg. F.

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

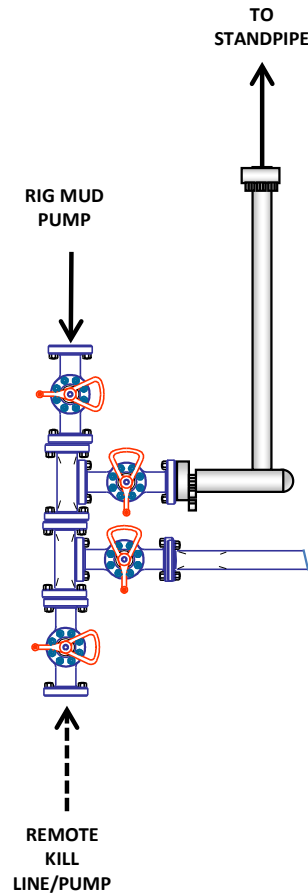
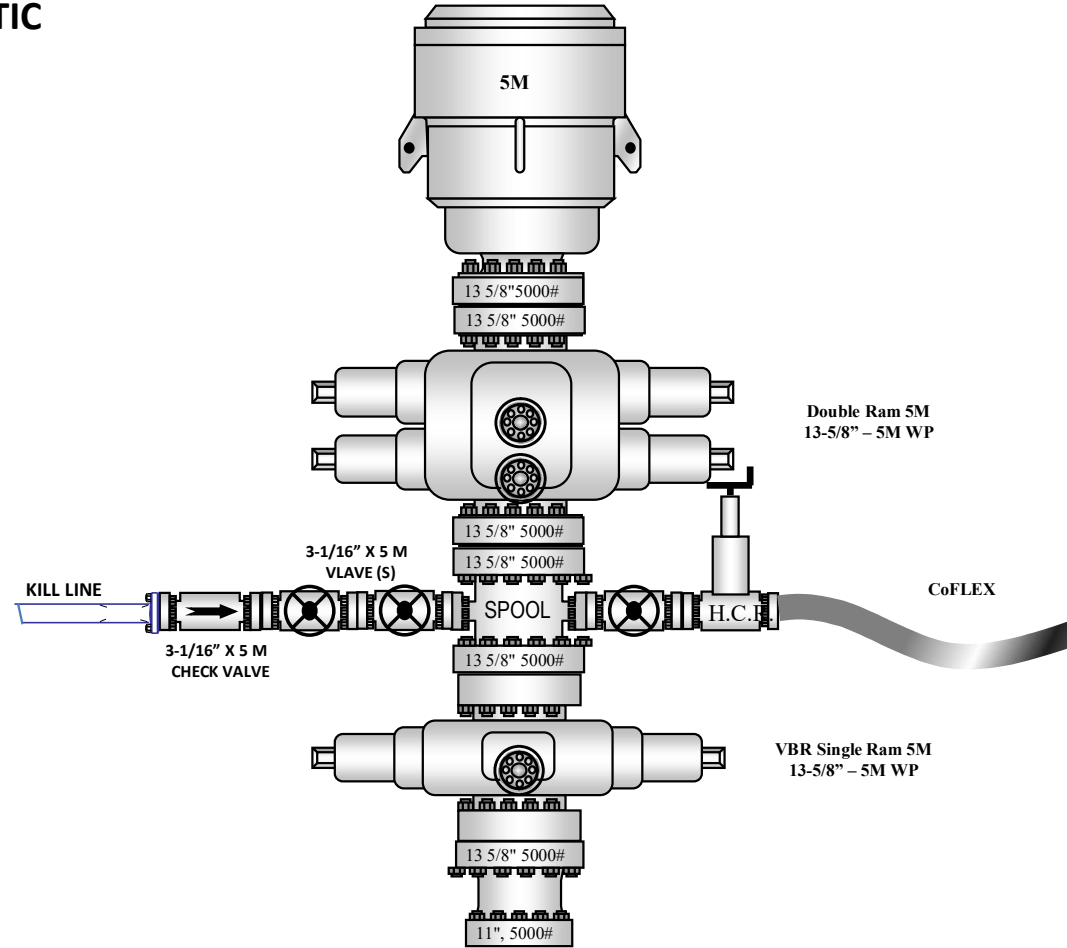
Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

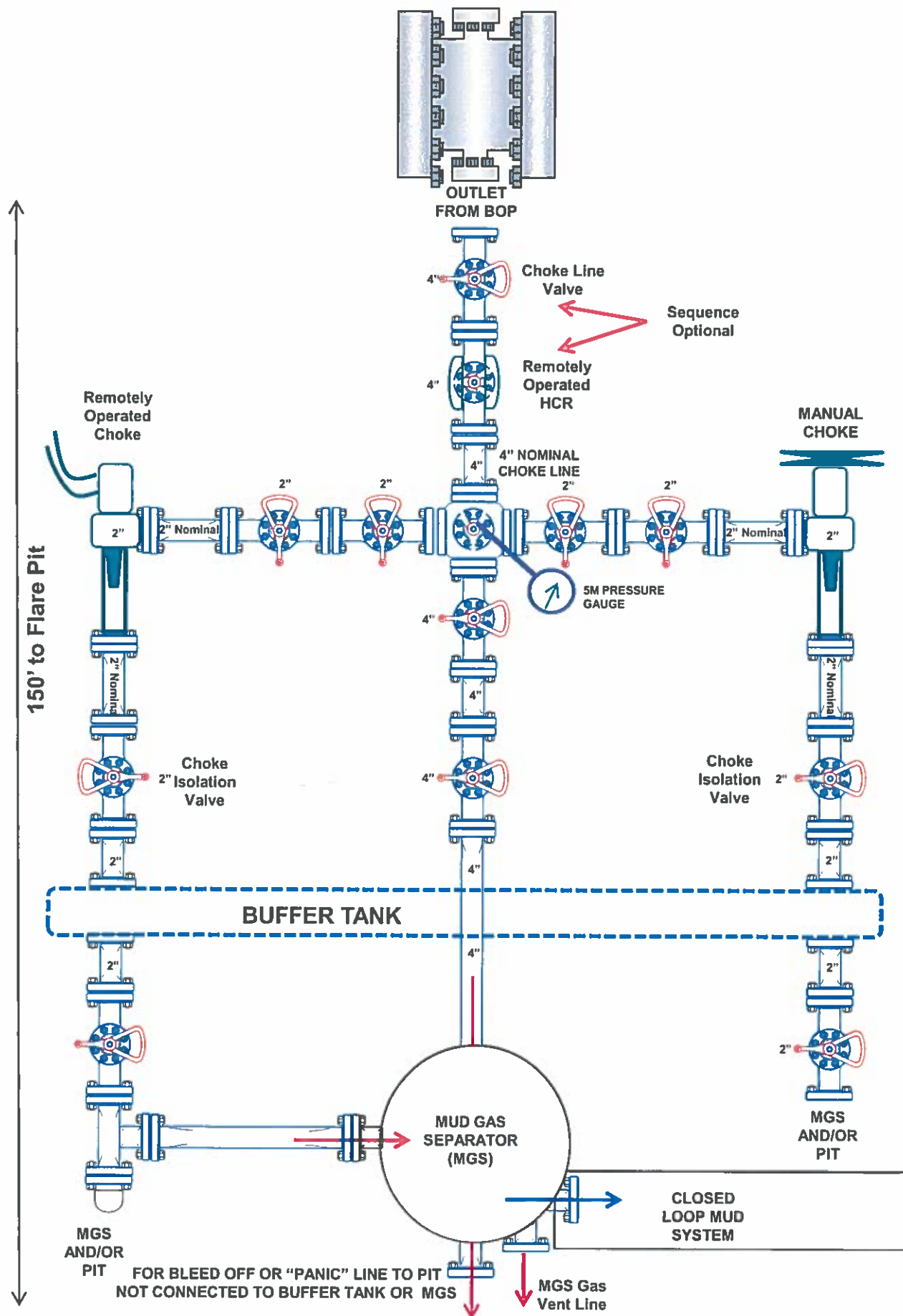
8. Other Facets of Operation

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

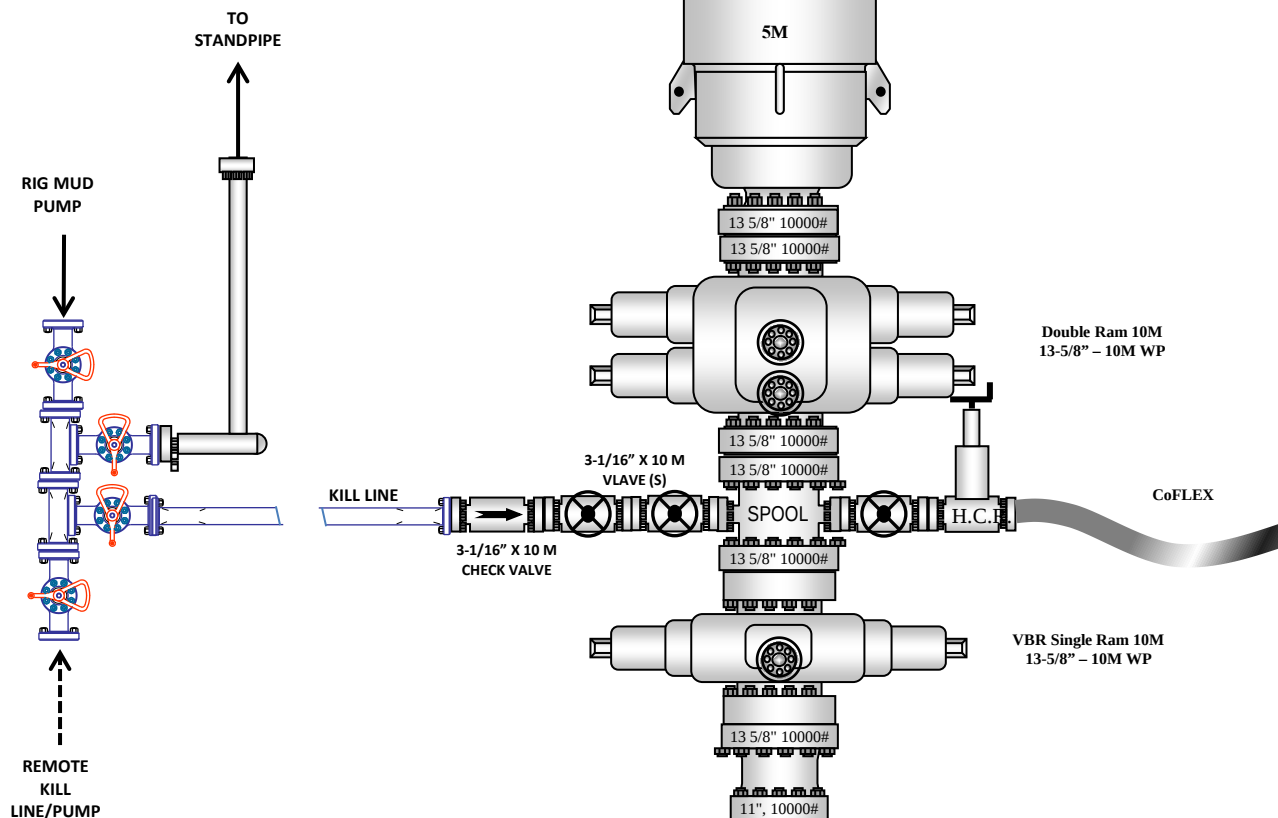
x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

5M BOP Stack**10M REMOTE KILL SCHEMATIC****5M BOP Stack
(2.5M Annular)**

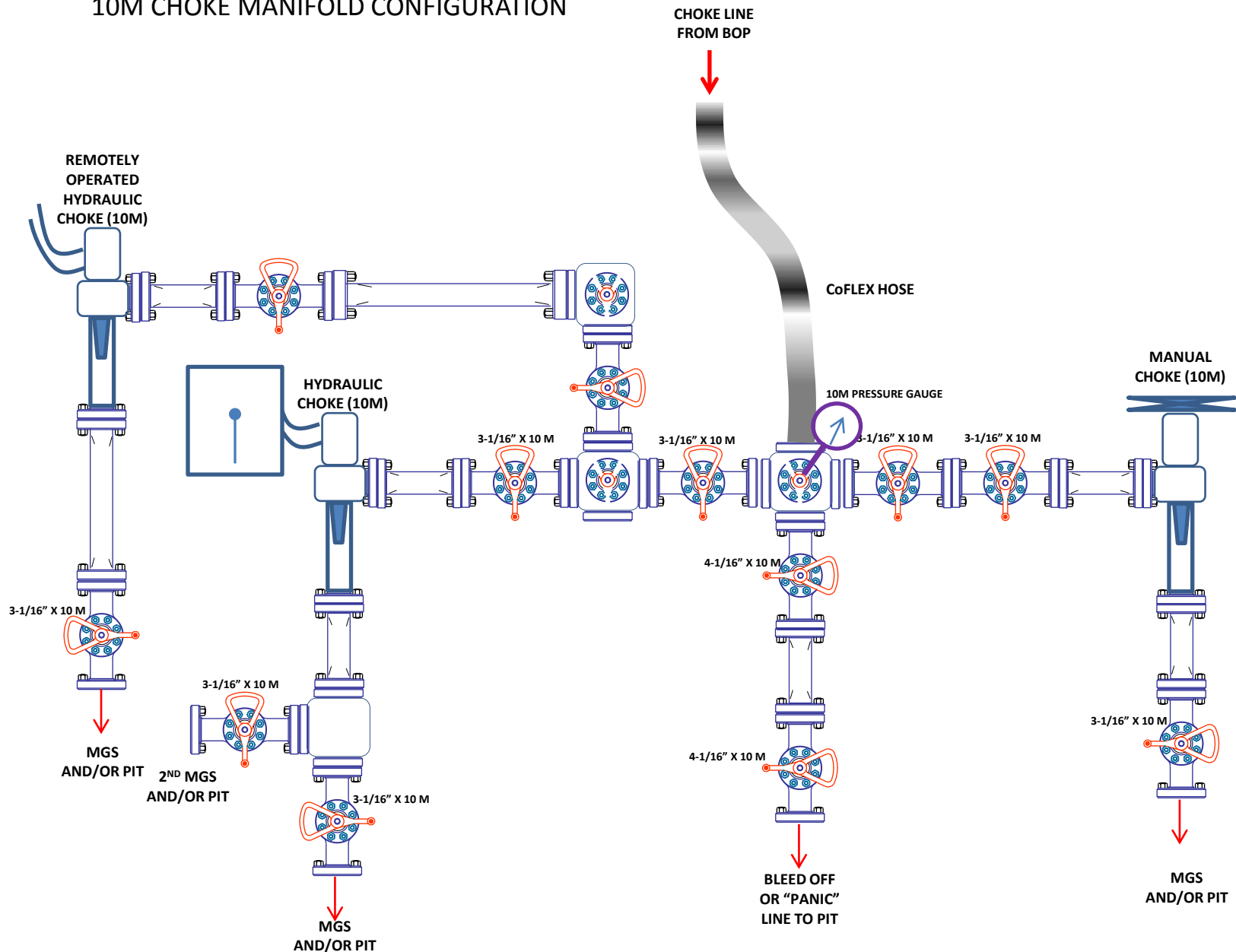
5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



10M REMOTE KILL SCHEMATIC



10M CHOKE MANIFOLD CONFIGURATION



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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 429589

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 429589
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mreyes4	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/7/2025
mreyes4	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/7/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/20/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/20/2025
ward.rikala	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.	2/20/2025
ward.rikala	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.	2/20/2025