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

5. Lease Serial No.: NMNM0558679

6. If Indian, Allotee or Tribe Name:

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

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: WILDLAND FEDERAL COM 104H

2. Name of Operator: SILVERBACK OPERATING II LLC

9. API Well No.: 30-015-56649

3a. Address: 1001 W. WILSHIRE BLVD SUITE 206, OKLAHOMA CITY

3b. Phone No. *(include area code)*: (405) 286-3375

10. Field and Pool, or Exploratory: RED LAKE/GLORIETA-YESO, NORTHEA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NWSW / 2327 FSL / 101 FWL / LAT 32.804553 / LONG -104.257754

At proposed prod. zone: NESE / 2187 FSL / 100 FEL / LAT 32.803919 / LONG -104.241153

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 26/T17S/R27E/NMP

14. Distance in miles and direction from nearest town or post office*: 8 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 101 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 20 feet

19. Proposed Depth: 3356 feet / 9155 feet

20. BLM/BIA Bond No. in file: FED: NMB002001

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3510 feet

22. Approximate date work will start*: 03/01/2025

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	Name *(Printed/Typed)*	Date
(Electronic Submission)	BRIAN WOOD / Ph: (405) 286-3375	09/19/2024

Title: Permitting Agent

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CODY LAYTON / Ph: (575) 234-5959	04/03/2025

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/03/2025

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-56649	96836	RED LAKE; GLORIETA-YESO, NORTHEAST

Property Code	Property Name	Well Number
337282	WILDLAND FEDERAL COM	104H

OGRID No.	Operator Name	Ground Level Elevation
330968	SILVERBACK OPERATING II, LLC	3,510'

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
L	26	17-S	27-E		2,327' FROM S	101' FROM W	N32.804553	W104.257754	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	26	17-S	27-E		2,187' FROM S	100' FROM E	N32.803919	W104.241153	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320.00			N	C

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
I	27	17-S	27-E		2,210' FROM S	640' FROM E	N32.804214	W104.260169	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	26	17-S	27-E		2,154' FROM S	100' FROM W	N32.804080	W104.257763	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	26	17-S	27-E		2,187' FROM S	100' FROM E	N32.803919	W104.241153	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

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.

9-13-24

Signature Date

BRIAN WOOD

Printed Name

brian@permitswest.com

Email Address

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.

MATTHEW C. BISSETT NEW MEXICO 20450 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

20450 8/9/24

Certificate Number | Date of Survey

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.

ACREAGE DEDICATION PLATS

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

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

SURFACE HOLE LOCATION (SHL)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 564559.23
Y: 656437.33
LAT.: N32.804553
LONG.: W104.257754

KICK OFF POINT (KOP)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 563817.43
Y: 656313.15
LAT.: N32.804214
LONG.: W104.260169

PROPOSED PENETRATION POINT (PPP2)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 565782.82
Y: 656251.94
LAT.: N32.804041
LONG.: W104.253772

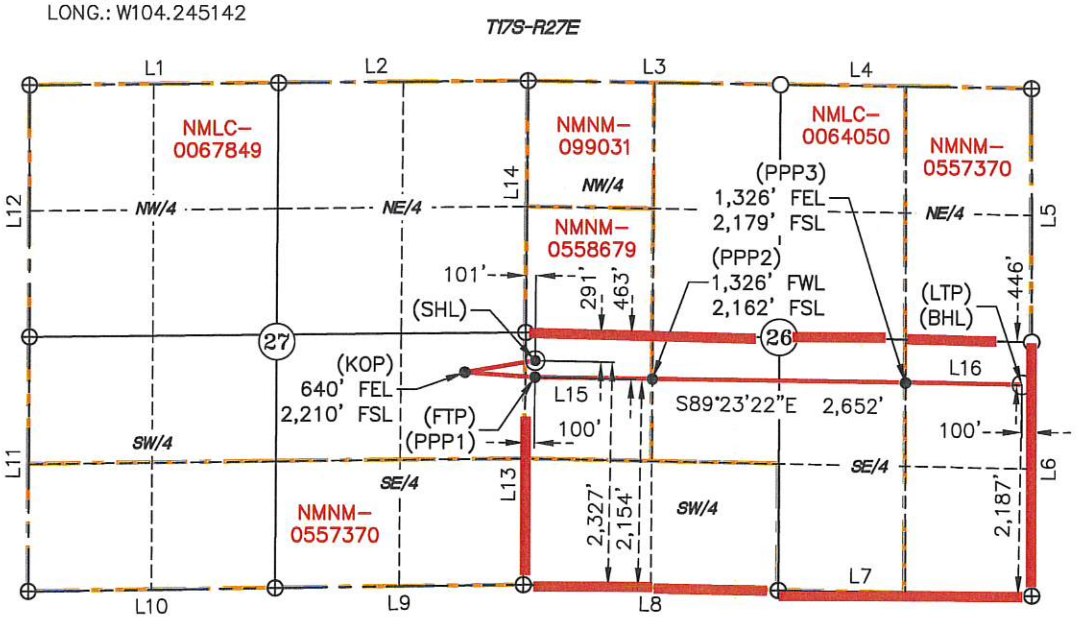
FIRST TAKE POINT (FTP)
PROPOSED PENETRATION POINT (PPP1)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 564556.78
Y: 656265.01
LAT.: N32.804080
LONG.: W104.257763

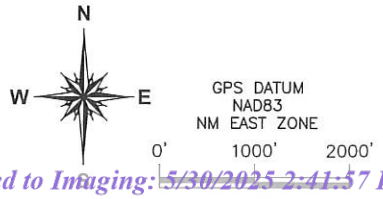
PROPOSED PENETRATION POINT (PPP3)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 568434.47
Y: 656223.69
LAT.: N32.803958
LONG.: W104.245142

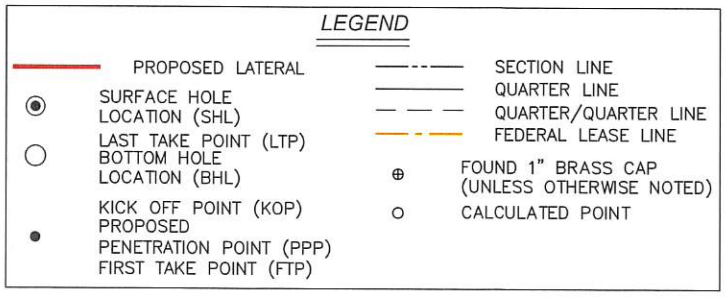
LAST TAKE POINT (LTP)
BOTTOM HOLE LOCATION (BHL)
NAD 83, NM EAST ZONE, U.S. FOOT
X: 569660.26
Y: 656210.62
LAT.: N32.803919
LONG.: W104.241153

LINE TABLE		
LINE #	BEARING	LENGTH
L1	N89°21'25"E	2,615'
L2	N89°21'03"E	2,614'
L3	S89°23'22"E	2,638'
L4	S89°23'22"E	2,638'
L5	S00°04'49"E	2,634'
L6	S00°04'49"E	2,634'
L7	N89°01'50"W	2,661'
L8	N89°00'51"W	2,661'

LINE TABLE		
LINE #	BEARING	LENGTH
L9	S89°05'45"W	2,594'
L10	S89°05'09"W	2,594'
L11	N00°07'03"E	2,641'
L12	N00°10'20"W	2,616'
L13	N00°24'40"E	2,617'
L14	N00°25'15"E	2,617'
L15	S89°23'22"E	1,226'
L16	S89°23'22"E	1,226'







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: _Silverback Operating II, LLC_____ **OGRID:** ___330968_____**Date:** __9.19.2024____

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
Wildland Fed Com 104H	30-015-xxxxx	L-26-17S-27E	3,327 FSL & 101 FWL	406	733	3041
Wildland Fed Com 203H	30-015-xxxxx	L-26-17S-27E	2,347 FSL & 101 FWL	406	733	3041
Wildland Fed Com 204H	30-015-xxxxx	L-26-17S-27E	2,307 FSL & 101 FWL	406	733	3041

IV. Central Delivery Point Name: _CTB Name: WQS CTB_____ [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
Wildland Fed Com 104H	30-015-xxxxx	10/1/2025	10/20/2025	12/15/2025	1/5/2026	1/1/2026
Wildland Fed Com 203H	30-015-xxxxx	10/3/2025	11/15/2025	12/15/2025	1/5/2026	1/1/2026
Wildland Fed Com 204H	30-015-xxxxx	10/5/2025	11/31/2025	12/15/2025	1/5/2026	1/1/2026

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: Justin Carter
Printed Name: Justin Carter
Title: Regulatory Manager
E-mail Address: jcarter@novoog.com
Date: 9/19/2024
Phone: 405.286.3375

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Separation Equipment

Silverback Operating II (LLC) has sampled existing producing wells and performed laboratory testing to determine composition. Performance of existing producing wells was analyzed to predict expected production volumes including a low probably, high volume production case (approximately 75% higher than type curve or most likely amount of production). Production composition and the volumes were utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high volume case was used to size equipment, piping and instrumentation. Equipment sizing is based on drop settlement and limits the amount of carry over to the gas phase.

Each well has a dedicated 3 phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline were sized to allow peak volumes to flow with minimal pressure loss and deliver to midstream gatherer at an acceptable pressure. Water is conveyed directly to tankage.

Oil from 3 phase separators is comingled and conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to flare. Oil and water storage tanks vapor outlets are common and utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the flare which is sized to accommodate peak expected production volume. Flash volumes were estimated using the high volume case and process modeling software.

Operational Practices

Silverback Operating II, LLC will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting will only occur during maintenance activities or equipment failure or upset. Silverback may utilize the following from list A-I of Section 3 for its operations to minimize flaring:

- Power generation on lease – Natural gas driven gen set to produce power required to run supply well pad electrical loads
- Compression on lease – gas lift or gas compression as required
- Liquids removal on lease – gas pressure will be used to convey fluids as needed

Best Management Practices

Silverback utilizes automate engineering controls included in facility design to minimize venting and flaring. Additionally, operational best practices support minimization of flare and venting as described below.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event.

The facility design includes a closed vent vapor capture system to route flash or evolved from the heater treater and tanks to the flare.

For maintenance activities, Silverback will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting

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

Drilling Plan Data Report
04/03/2025

APD ID: 10400101035
Submission Date: 09/19/2024
Operator Name: SILVERBACK OPERATING II LLC
Well Name: WILDLAND FEDERAL COM
Well Number: 104H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15345119	QUATERNARY	3510	0	0	OTHER : Caliche	USEABLE WATER	N
15345120	TANSILL	3425	85	85	DOLOMITE	NONE	N
15345121	YATES	3313	197	197	DOLOMITE	NONE	N
15345122	SEVEN RIVERS	3131	379	379	DOLOMITE	NATURAL GAS, OIL	N
15345123	QUEEN	2624	886	889	DOLOMITE	NATURAL GAS, OIL	N
15345124	GRAYBURG	2231	1279	1301	DOLOMITE	NATURAL GAS, OIL	N
15345125	SAN ANDRES	1866	1644	1715	DOLOMITE	NATURAL GAS, OIL	N
15345126	GLORIETA	497	3013	3217	DOLOMITE	NATURAL GAS, OIL	N
15345127	YESO	415	3095	3322	DOLOMITE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 5000

Equipment: A 5000-psi 5000' rated BOP stack consisting of annular preventer and double (blind and pipe) ram will be used below surface casing to TD. See attached BOP and choke manifold diagram.
Requesting Variance? YES

Variance request: A variance is requested to the requirement of a rigid steel line connecting to the choke manifold. Flex hose specifications are attached.
Testing Procedure: A third-party testing company will conduct pressure tests and record the results before drilling out below casing shoes. The BOP, choke, choke manifold, top drive valves, and floor safety valve will be tested to 3500 psi before drilling below the surface casing shoe. The annular preventer will be tested to 3500 psi before drilling below the surface casing shoe. BOP equipment will be tested after any repairs to the equipment as well as drilling out below any casing string. Pipe rams, blind rams, and annular preventer will be activated on each trip. Weekly BOP drills will be held with each crew. Floor safety valves that are full open and sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Operator Name: SILVERBACK OPERATING II LLC

Well Name: WILDLAND FEDERAL COM **Well Number:** 104H

Choke Diagram Attachment:

Wild_BOP_Choke_20240916082937.pdf

BOP Diagram Attachment:

Wild_BOP_Choke_20240916082947.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	12.25	9.625	NEW	API	N	0	1250	0	1231	0	-1231	1250	J-55	36	BUTT	3.26	2.24	DRY	14.97	DRY	14.97
2	PRODUCTION	8.75	7.0	NEW	NON API	N	0	4479	0	3822	0	-3822	4479	L-80	32	OTHER - HC GBCD	4.69	2.09	DRY	8.16	DRY	8.16
3	PRODUCTION	8.75	5.5	NEW	NON API	Y	4479	9587	3822	3885	-3822	-3885	5108	L-80	20	OTHER - HC GBCD	4.82	2.09	DRY	8.32	DRY	8.32

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Wild_104H_Casing_Design_Assumptions_20240916083459.pdf

Operator Name: SILVERBACK OPERATING II LLC

Well Name: WILDLAND FEDERAL COM **Well Number:** 104H

Casing Attachments

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

7in_Casing_Spec_20240916083603.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Wild_104H_Casing_Design_Assumptions_20240916083626.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_Casing_Spec_20240916083733.pdf

Tapered String Spec:

5.5in_Casing_Spec_20240916083746.pdf

Casing Design Assumptions and Worksheet(s):

Wild_104H_Casing_Design_Assumptions_20240916083814.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
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		4004	9155	1358	1.15	14.8	1561	20	50% Class B poz + 50% Class C	0.1% FR-5 + 0.4% CFL-316 + 0.05% C-37 + 0.005 GPS No Foam V1A
SURFACE	Lead		0	1250	259	2.3	12.5	595	20	Class C	5% salt + 2% extender + 3 pps coal seal + 5 pps pumice + 1/8 pps cello-flake

Operator Name: SILVERBACK OPERATING II LLC

Well Name: WILDLAND FEDERAL COM **Well Number:** 104H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Tail		0	1250	84	1.34	14.8	112	20	Class C	2% CaCl2
PRODUCTION	Lead		0	2532	203	2.81	11.5	570	20	50% Class B poz + 50% Class C	10% gel + 5% salt + 0.5% SMS + 0.4% FR-5 + 0.1% SA-1+ 3 pps gilsonite + 0.25 pps pol-e-flake + 0.005 GPS No Foam V1A
PRODUCTION	Tail		2532	4004	231	1.15	14.8	265		50% Class B Poz + 50% Class C	0.1% FR-5 + 0.4% CFL-316 + 0.05% C-37 + 0.005 GPS No Foam V!A

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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (e. g., LCM) to handle any abnormal hole condition that may be encountered while drilling this well will be on site. Lost circulation could be encountered in the Seven Rivers and Queen.
Describe the mud monitoring system utilized: An electronic/mechanical mud monitor with a minimum pit volume totalizer, stroke counter, and flow sensor will be used.

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
0	1250	OTHER : Fresh Water	8.4	9.5							
1250	2532	OTHER : Cut Brine	8.9	9.1							
2532	9155	OTHER : Cut Brine	8.9	9.1							

Operator Name: SILVERBACK OPERATING II LLC

Well Name: WILDLAND FEDERAL COM **Well Number:** 104H

Section 6 - Test, Logging, Coring

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

Mud loggers will collect samples from base of surface casing to TD. Open hole logs (GR/SP/DIL/LDT/CNL/ML) will be run from TD to the top of the uppermost potential hydrocarbon zone. Open hole logs (GR/SP/DIL) will be run from top of the uppermost potential hydrocarbon zone to the base of the surface casing. GR log will be run from base of the surface casing to GL. Cased hole CBL will be run on the production casing.

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

MUD LOG/GEOLOGICAL LITHOLOGY LOG,GAMMA RAY LOG,COMPENSATED NEUTRON LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 1700 **Anticipated Surface Pressure:** 952

Anticipated Bottom Hole Temperature(F): 98

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Wild_Pad3_H2S_Plan_20240916090051.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Wild_104H_Horizontal_Plan_20240916090027.pdf

Other proposed operations facets description:

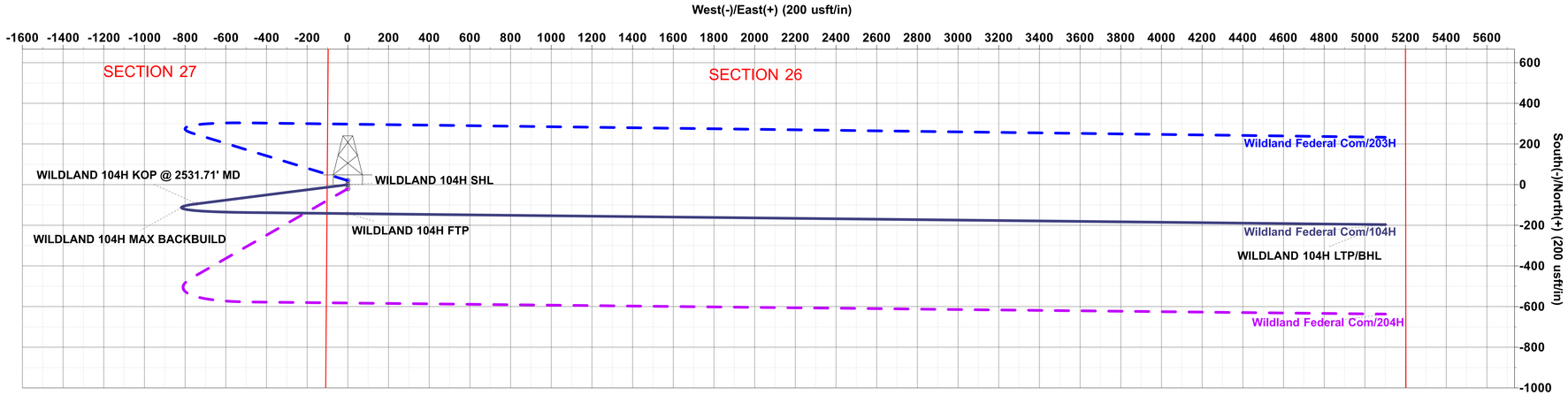
Other proposed operations facets attachment:

Wild_104H_Drill_Plan_20240916090108.pdf
CoFlex_Certs_20240919141525.pdf
WMP_Wildland_Pad3_20240919141700.pdf

Other Variance attachment:

SILVERBACK EXPLORATION

Project: EDDY COUNTY, NM (NAD 83 - NME)
Site: Wildland Federal Com
Well: 104H
Wellbore: OH
Design: Plan 1r0



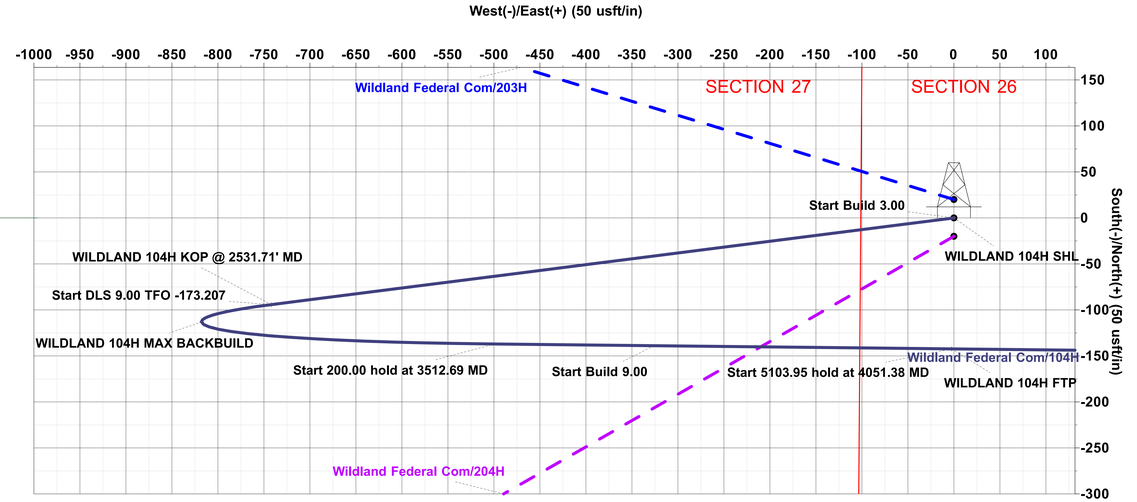
WELL DETAILS: 104H

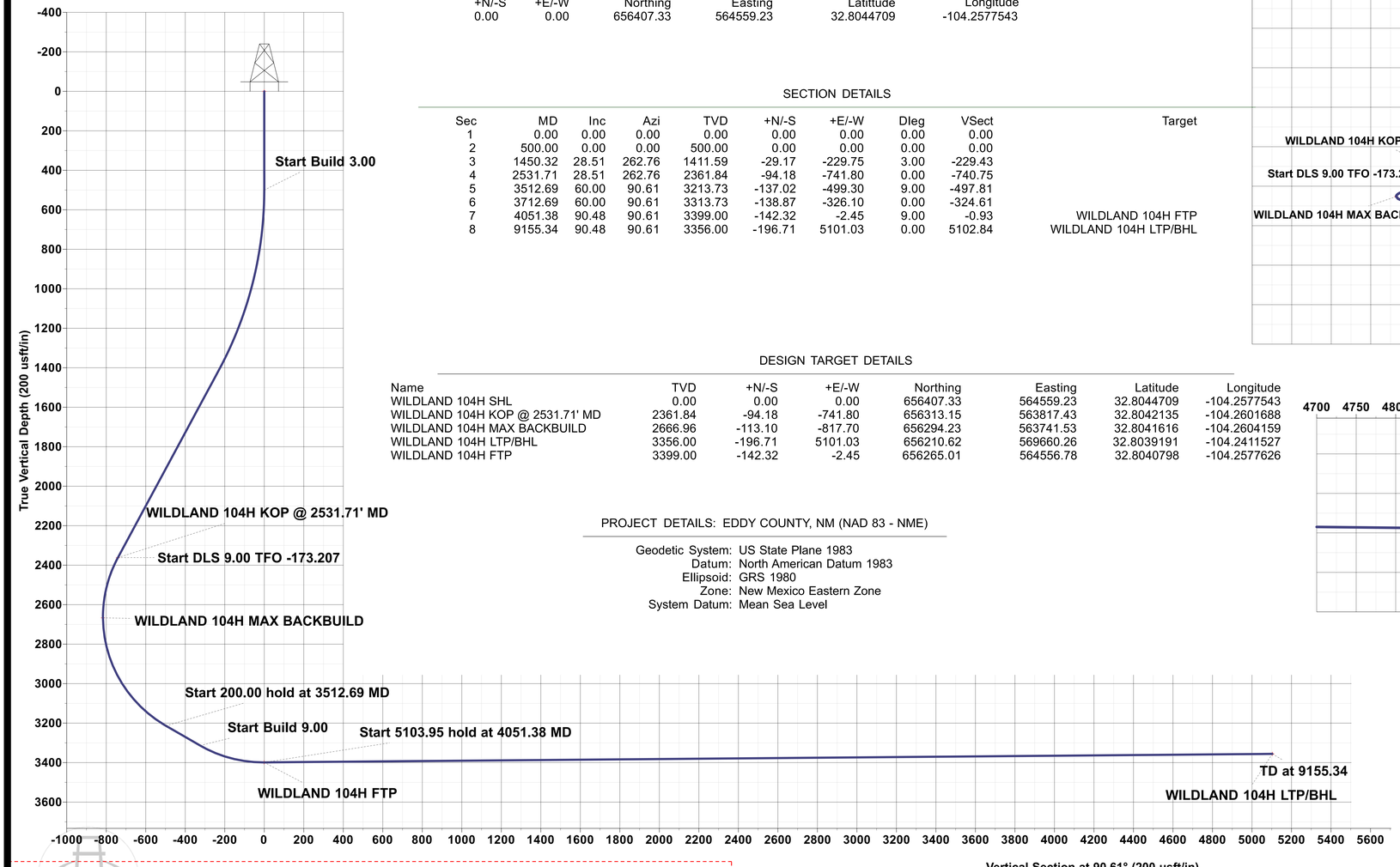
Rig Name: TBD RKB = 20' @ 3530.00usft (TBD)
Ground Level: 3510.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	656407.33	564559.23	32.8044709	-104.2577543

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	
3	1450.32	28.51	262.76	1411.59	-29.17	-229.75	3.00	-229.43	
4	2531.71	28.51	262.76	2361.84	-94.18	-741.80	0.00	-740.75	
5	3512.69	60.00	90.61	3213.73	-137.02	-499.30	9.00	-497.81	
6	3712.69	60.00	90.61	3313.73	-138.87	-326.10	0.00	-324.61	
7	4051.38	90.48	90.61	3399.00	-142.32	-2.45	9.00	-0.93	WILDLAND 104H FTP
8	9155.34	90.48	90.61	3356.00	-196.71	5101.03	0.00	5102.84	WILDLAND 104H LTP/BHL



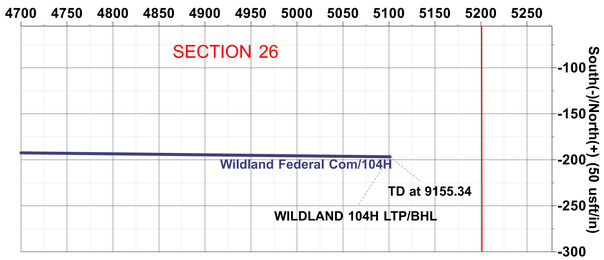


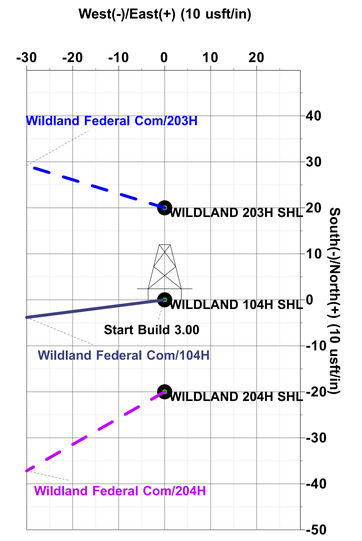
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
WILDLAND 104H SHL	0.00	0.00	0.00	656407.33	564559.23	32.8044709	-104.2577543
WILDLAND 104H KOP @ 2531.71' MD	2361.84	-94.18	-741.80	656313.15	563817.43	32.8042135	-104.2601688
WILDLAND 104H MAX BACKBUILD	2666.96	-113.10	-817.70	656294.23	563741.53	32.8041616	-104.2604159
WILDLAND 104H LTP/BHL	3356.00	-196.71	5101.03	656210.62	569660.26	32.8039191	-104.2411527
WILDLAND 104H FTP	3399.00	-142.32	-2.45	656265.01	564556.78	32.8040798	-104.2577626

PROJECT DETAILS: EDDY COUNTY, NM (NAD 83 - NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level





Plan: Plan 1r0 (104H/OH)

Created By: PROTOTYPE WELL PLANNING / Date: 15:58, March 26 2024

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 104H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Site:	Wildland Federal Com	**North Reference:**	Grid
Well:	104H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1r0		

Project EDDY COUNTY, NM (NAD 83 - NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Wildland Federal Com

Site Position:		**Northing:**	657,286.11 usft	**Latitude:**	32.8068862
From:	Map	**Easting:**	564,645.88 usft	**Longitude:**	-104.2574702
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.041 °

Well 104H

Well Position	**+N/-S**	-878.78 usft	**Northing:**	656,407.33 usft	**Latitude:**	32.8044710
	+E/-W	-86.65 usft	**Easting:**	564,559.23 usft	**Longitude:**	-104.2577543
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,510.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	03/26/24	6.585	60.234	47,476

Design Plan 1r0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.61

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,450.32	28.51	262.76	1,411.59	-29.17	-229.75	3.00	3.00	0.00	262.764	
2,531.71	28.51	262.76	2,361.84	-94.18	-741.80	0.00	0.00	0.00	0.000	
3,512.69	60.00	90.61	3,213.73	-137.02	-499.30	9.00	3.21	-17.55	-173.207	
3,712.69	60.00	90.61	3,313.73	-138.87	-326.10	0.00	0.00	0.00	0.000	
4,051.39	90.48	90.61	3,399.00	-142.32	-2.45	9.00	9.00	0.00	0.000	WILDLAND 104H F
9,155.34	90.48	90.61	3,356.00	-196.71	5,101.03	0.00	0.00	0.00	0.000	WILDLAND 104H L

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 104H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Site:	Wildland Federal Com	**North Reference:**	Grid
Well:	104H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1r0		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WILDLAND 104H SHL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	3.00	262.76	599.95	-0.33	-2.60	-2.59	3.00	3.00	0.00
700.00	6.00	262.76	699.63	-1.32	-10.38	-10.36	3.00	3.00	0.00
800.00	9.00	262.76	798.77	-2.96	-23.33	-23.29	3.00	3.00	0.00
900.00	12.00	262.76	897.08	-5.26	-41.40	-41.34	3.00	3.00	0.00
1,000.00	15.00	262.76	994.31	-8.20	-64.56	-64.47	3.00	3.00	0.00
1,100.00	18.00	262.76	1,090.18	-11.77	-92.73	-92.60	3.00	3.00	0.00
1,200.00	21.00	262.76	1,184.43	-15.98	-125.84	-125.66	3.00	3.00	0.00
1,300.00	24.00	262.76	1,276.81	-20.80	-163.80	-163.57	3.00	3.00	0.00
1,400.00	27.00	262.76	1,367.06	-26.22	-206.50	-206.21	3.00	3.00	0.00
1,450.32	28.51	262.76	1,411.59	-29.17	-229.75	-229.43	3.00	3.00	0.00
1,500.00	28.51	262.76	1,455.24	-32.16	-253.27	-252.92	0.00	0.00	0.00
1,600.00	28.51	262.76	1,543.12	-38.17	-300.63	-300.20	0.00	0.00	0.00
1,700.00	28.51	262.76	1,630.99	-44.18	-347.98	-347.49	0.00	0.00	0.00
1,800.00	28.51	262.76	1,718.86	-50.19	-395.33	-394.77	0.00	0.00	0.00
1,900.00	28.51	262.76	1,806.74	-56.20	-442.68	-442.05	0.00	0.00	0.00
2,000.00	28.51	262.76	1,894.61	-62.21	-490.03	-489.34	0.00	0.00	0.00
2,100.00	28.51	262.76	1,982.48	-68.23	-537.38	-536.62	0.00	0.00	0.00
2,200.00	28.51	262.76	2,070.36	-74.24	-584.73	-583.91	0.00	0.00	0.00
2,300.00	28.51	262.76	2,158.23	-80.25	-632.08	-631.19	0.00	0.00	0.00
2,400.00	28.51	262.76	2,246.11	-86.26	-679.43	-678.47	0.00	0.00	0.00
2,500.00	28.51	262.76	2,333.98	-92.27	-726.78	-725.76	0.00	0.00	0.00
2,531.71	28.51	262.76	2,361.84	-94.18	-741.80	-740.75	0.00	0.00	0.00
WILDLAND 104H KOP @ 2531.71' MD									
2,550.00	26.88	262.33	2,378.04	-95.28	-750.22	-749.17	9.00	-8.93	-2.35
2,600.00	22.42	260.86	2,423.47	-98.30	-770.85	-769.76	9.00	-8.92	-2.94
2,650.00	17.98	258.71	2,470.39	-101.33	-787.84	-786.71	9.00	-8.88	-4.31
2,700.00	13.58	255.20	2,518.49	-104.34	-801.09	-799.93	9.00	-8.80	-7.01
2,750.00	9.27	248.48	2,567.49	-107.32	-810.51	-809.33	9.00	-8.61	-13.45
2,800.00	5.30	231.15	2,617.08	-110.25	-816.06	-814.84	9.00	-7.95	-34.65
2,850.00	3.25	173.35	2,666.96	-113.10	-817.70	-816.45	9.00	-4.09	-115.61
WILDLAND 104H MAX BACKBUILD									
2,900.00	5.79	122.62	2,716.82	-115.87	-815.41	-814.13	9.00	5.08	-101.45
2,950.00	9.85	107.75	2,766.35	-118.54	-809.21	-807.90	9.00	8.11	-29.75
3,000.00	14.17	101.68	2,815.24	-121.08	-799.13	-797.80	9.00	8.65	-12.14
3,050.00	18.58	98.42	2,863.21	-123.49	-785.25	-783.89	9.00	8.81	-6.51
3,100.00	23.02	96.39	2,909.94	-125.75	-767.65	-766.27	9.00	8.88	-4.07
3,150.00	27.48	94.98	2,955.15	-127.84	-746.43	-745.03	9.00	8.92	-2.81
3,200.00	31.95	93.94	2,998.56	-129.75	-721.72	-720.30	9.00	8.94	-2.08
3,250.00	36.43	93.13	3,039.91	-131.47	-693.69	-692.25	9.00	8.95	-1.62
3,300.00	40.91	92.48	3,078.94	-132.99	-662.49	-661.04	9.00	8.96	-1.31
3,350.00	45.40	91.94	3,115.40	-134.30	-628.33	-626.86	9.00	8.97	-1.09
3,400.00	49.88	91.47	3,149.09	-135.39	-591.41	-589.93	9.00	8.97	-0.93
3,450.00	54.37	91.06	3,179.77	-136.26	-551.96	-550.48	9.00	8.98	-0.82
3,500.00	58.86	90.70	3,207.28	-136.90	-510.22	-508.74	9.00	8.98	-0.73
3,512.69	60.00	90.61	3,213.73	-137.02	-499.30	-497.81	9.00	8.98	-0.69
3,600.00	60.00	90.61	3,257.39	-137.83	-423.69	-422.20	0.00	0.00	0.00

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 104H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Site:	Wildland Federal Com	**North Reference:**	Grid
Well:	104H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1r0		

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)
3,700.00	60.00	90.61	3,307.39	-138.75	-337.09	-335.60	0.00	0.00	0.00
3,712.69	60.00	90.61	3,313.73	-138.87	-326.10	-324.61	0.00	0.00	0.00
3,750.00	63.36	90.61	3,331.43	-139.22	-293.27	-291.77	9.00	9.00	0.00
3,800.00	67.86	90.61	3,352.07	-139.71	-247.74	-246.24	9.00	9.00	0.00
3,850.00	72.36	90.61	3,369.08	-140.21	-200.74	-199.24	9.00	9.00	0.00
3,900.00	76.86	90.61	3,382.35	-140.72	-152.55	-151.04	9.00	9.00	0.00
3,950.00	81.36	90.61	3,391.79	-141.24	-103.47	-101.96	9.00	9.00	0.00
4,000.00	85.86	90.61	3,397.36	-141.77	-53.79	-52.28	9.00	9.00	0.00
4,051.39	90.48	90.61	3,399.00	-142.32	-2.45	-0.93	9.00	9.00	0.00
WILDLAND 104H FTP									
4,100.00	90.48	90.61	3,398.59	-142.84	46.16	47.68	0.00	0.00	0.00
4,200.00	90.48	90.61	3,397.75	-143.90	146.15	147.68	0.00	0.00	0.00
4,300.00	90.48	90.61	3,396.91	-144.97	246.14	247.67	0.00	0.00	0.00
4,400.00	90.48	90.61	3,396.06	-146.04	346.13	347.67	0.00	0.00	0.00
4,500.00	90.48	90.61	3,395.22	-147.10	446.12	447.66	0.00	0.00	0.00
4,600.00	90.48	90.61	3,394.38	-148.17	546.11	547.66	0.00	0.00	0.00
4,700.00	90.48	90.61	3,393.54	-149.23	646.11	647.66	0.00	0.00	0.00
4,800.00	90.48	90.61	3,392.69	-150.30	746.10	747.65	0.00	0.00	0.00
4,900.00	90.48	90.61	3,391.85	-151.36	846.09	847.65	0.00	0.00	0.00
5,000.00	90.48	90.61	3,391.01	-152.43	946.08	947.65	0.00	0.00	0.00
5,100.00	90.48	90.61	3,390.17	-153.49	1,046.07	1,047.64	0.00	0.00	0.00
5,200.00	90.48	90.61	3,389.32	-154.56	1,146.06	1,147.64	0.00	0.00	0.00
5,300.00	90.48	90.61	3,388.48	-155.63	1,246.05	1,247.64	0.00	0.00	0.00
5,400.00	90.48	90.61	3,387.64	-156.69	1,346.04	1,347.63	0.00	0.00	0.00
5,500.00	90.48	90.61	3,386.80	-157.76	1,446.03	1,447.63	0.00	0.00	0.00
5,600.00	90.48	90.61	3,385.95	-158.82	1,546.02	1,547.63	0.00	0.00	0.00
5,700.00	90.48	90.61	3,385.11	-159.89	1,646.01	1,647.62	0.00	0.00	0.00
5,800.00	90.48	90.61	3,384.27	-160.95	1,746.00	1,747.62	0.00	0.00	0.00
5,900.00	90.48	90.61	3,383.43	-162.02	1,845.99	1,847.61	0.00	0.00	0.00
6,000.00	90.48	90.61	3,382.58	-163.09	1,945.99	1,947.61	0.00	0.00	0.00
6,100.00	90.48	90.61	3,381.74	-164.15	2,045.98	2,047.61	0.00	0.00	0.00
6,200.00	90.48	90.61	3,380.90	-165.22	2,145.97	2,147.60	0.00	0.00	0.00
6,300.00	90.48	90.61	3,380.06	-166.28	2,245.96	2,247.60	0.00	0.00	0.00
6,400.00	90.48	90.61	3,379.21	-167.35	2,345.95	2,347.60	0.00	0.00	0.00
6,500.00	90.48	90.61	3,378.37	-168.41	2,445.94	2,447.59	0.00	0.00	0.00
6,600.00	90.48	90.61	3,377.53	-169.48	2,545.93	2,547.59	0.00	0.00	0.00
6,700.00	90.48	90.61	3,376.69	-170.54	2,645.92	2,647.59	0.00	0.00	0.00
6,800.00	90.48	90.61	3,375.84	-171.61	2,745.91	2,747.58	0.00	0.00	0.00
6,900.00	90.48	90.61	3,375.00	-172.68	2,845.90	2,847.58	0.00	0.00	0.00
7,000.00	90.48	90.61	3,374.16	-173.74	2,945.89	2,947.58	0.00	0.00	0.00
7,100.00	90.48	90.61	3,373.32	-174.81	3,045.88	3,047.57	0.00	0.00	0.00
7,200.00	90.48	90.61	3,372.47	-175.87	3,145.87	3,147.57	0.00	0.00	0.00
7,300.00	90.48	90.61	3,371.63	-176.94	3,245.87	3,247.57	0.00	0.00	0.00
7,400.00	90.48	90.61	3,370.79	-178.00	3,345.86	3,347.56	0.00	0.00	0.00
7,500.00	90.48	90.61	3,369.95	-179.07	3,445.85	3,447.56	0.00	0.00	0.00
7,600.00	90.48	90.61	3,369.10	-180.14	3,545.84	3,547.55	0.00	0.00	0.00
7,700.00	90.48	90.61	3,368.26	-181.20	3,645.83	3,647.55	0.00	0.00	0.00
7,800.00	90.48	90.61	3,367.42	-182.27	3,745.82	3,747.55	0.00	0.00	0.00
7,900.00	90.48	90.61	3,366.58	-183.33	3,845.81	3,847.54	0.00	0.00	0.00
8,000.00	90.48	90.61	3,365.73	-184.40	3,945.80	3,947.54	0.00	0.00	0.00
8,100.00	90.48	90.61	3,364.89	-185.46	4,045.79	4,047.54	0.00	0.00	0.00
8,200.00	90.48	90.61	3,364.05	-186.53	4,145.78	4,147.53	0.00	0.00	0.00
8,300.00	90.48	90.61	3,363.21	-187.60	4,245.77	4,247.53	0.00	0.00	0.00
8,400.00	90.48	90.61	3,362.36	-188.66	4,345.76	4,347.53	0.00	0.00	0.00

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 104H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3530.00usft (TBD)
Site:	Wildland Federal Com	**North Reference:**	Grid
Well:	104H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1r0		

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)
8,500.00	90.48	90.61	3,361.52	-189.73	4,445.75	4,447.52	0.00	0.00	0.00
8,600.00	90.48	90.61	3,360.68	-190.79	4,545.75	4,547.52	0.00	0.00	0.00
8,700.00	90.48	90.61	3,359.84	-191.86	4,645.74	4,647.52	0.00	0.00	0.00
8,800.00	90.48	90.61	3,358.99	-192.92	4,745.73	4,747.51	0.00	0.00	0.00
8,900.00	90.48	90.61	3,358.15	-193.99	4,845.72	4,847.51	0.00	0.00	0.00
9,000.00	90.48	90.61	3,357.31	-195.05	4,945.71	4,947.50	0.00	0.00	0.00
9,100.00	90.48	90.61	3,356.47	-196.12	5,045.70	5,047.50	0.00	0.00	0.00
9,155.34	90.48	90.61	3,356.00	-196.71	5,101.03	5,102.84	0.00	0.00	0.00
WILDLAND 104H LTP/BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WILDLAND 104H SHI - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	656,407.33	564,559.23	32.8044710	-104.2577543
WILDLAND 104H KO - plan hits target center - Point	0.00	0.00	2,361.84	-94.18	-741.80	656,313.16	563,817.44	32.8042135	-104.2601688
WILDLAND 104H MA - plan hits target center - Point	0.00	0.00	2,666.96	-113.10	-817.70	656,294.23	563,741.54	32.8041616	-104.2604159
WILDLAND 104H LTF - plan hits target center - Point	0.00	0.01	3,356.00	-196.71	5,101.03	656,210.62	569,660.26	32.8039191	-104.2411527
WILDLAND 104H FTF - plan hits target center - Point	0.00	0.01	3,399.00	-142.32	-2.45	656,265.01	564,556.78	32.8040798	-104.2577626

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Silverback Operating II LLC
WELL NAME & NO.:	Wildland Federal Com 104H
LOCATION:	Sec 26-17S-27E-NMP
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	○ Low	○ Medium	◉ High	○ Critical
Wellhead	◉ Conventional	○ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☐ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☐ Break Testing

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated at surface. H2S has been reported within one mile, from an unknown formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1703** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. ***Set depth adjusted per BLM geologist.***

    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.

Approval Date: 04/03/2025

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7** inch production casing is:

The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

D. SPECIAL REQUIREMENT (S)

<u>Communitization Agreement</u>

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

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.

Silverback Operating II, LLC
HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

This is an open drilling site. H2S monitoring equipment and emergency response equipment will be rigged up and in use when the company drills out from under surface casing. H2S monitors, warning signs, wind indicators and flags will be in use.

1. All personnel shall receive proper H2S training in accordance with Onshore Order 6 111.C.3.a

2. Briefing Area: Two perpendicular areas will be designated by signs and readily accessible.

3. Required Emergency Equipment:
   - 3.1. Well control equipment
     - 3.1.1. Flare line 150' from wellhead to be ignited by flare gun.
     - 3.1.2. Choke manifold with a remotely operated choke.
     - 3.1.3. Mud/Gas Separator.
   - 3.2. Protective Equipment for essential personnel.
     - 3.2.1. Breathing apparatus:
     - 3.2.2. Rescue Packs (SCBA) - 1 unit shall be placed at each briefing area. 2 units shall be stored in the safety trailer.
     - 3.2.3. Work/Escape packs - 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
     - 3.2.4. Emergency Escape Packs - 4 packs shall be stored in the doghouse for emergency evacuation.
   - 3.3. Auxiliary Rescue Equipment:
     - 3.3.1. Stretcher
     - 3.3.2. Two OSHA full body harness
     - 3.3.3. 100 ft. 5/8" OSHA approved rope
     - 3.3.4. One 20# class ABC fire extinguisher
   - 3.4. H2S detection and monitoring Equipment:
     - 3.4.1. The stationary detector with three sensors will be placed in the upper doghouse, set to visually alarm@ 10 ppm and audible@ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor, Bell nipple, end of flare line or where well bore fluid is being discharged (Gas sample tubes will be stored in the safety trailer).
   - 3.5. Visual warning systems.
     - 3.5.1. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.

3.5.2. A colored condition flag will be on display, reflecting the current condition, at the drilling site.
3.5.3. Two windsocks will be placed in strategic locations, visible from all angles.
3.6. Mud Program:
3.6.1. The mud program has been designated to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
3.7. Metallurgy:
3.7.1. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, shall be suitable for H2S service.
3.7.2. All elastomers used for packing and seals shall be H2S trim.
3.8. Communication:
3.8.1. Communication will be via two-way radio located in company vehicles. Cell phones and landlines where available.

H2S Operations

Though no H2S is anticipated during the drilling operation, this contingency plan will provide for methods to ensure the well is kept under control in the event an H2S reading of 100 ppm or more is encountered. Once personnel are safe and the proper protective gear is in place and on personnel, the operator and rig crew essential personnel will ensure the well is under control, suspend drilling operations and shut-in the well (unless pressure build up or other operational situations dictate suspending operations will prevent well control), increase the mud weight and circulate all gas from the hole utilizing the mud/gas separator downstream of the choke, the choke manifold and the emergency flare system located 150' from the well. Bring the mud system into compliance and the H2S level below 10 ppm, then notify all emergency officers that drilling ahead is practical and safe. Proceed with drilling ahead only after all provisions of Onshore Order 6, Section 111.C. have been satisfied.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H2S and s02

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air= I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air= I	2 ppm	N/A	1000 ppm

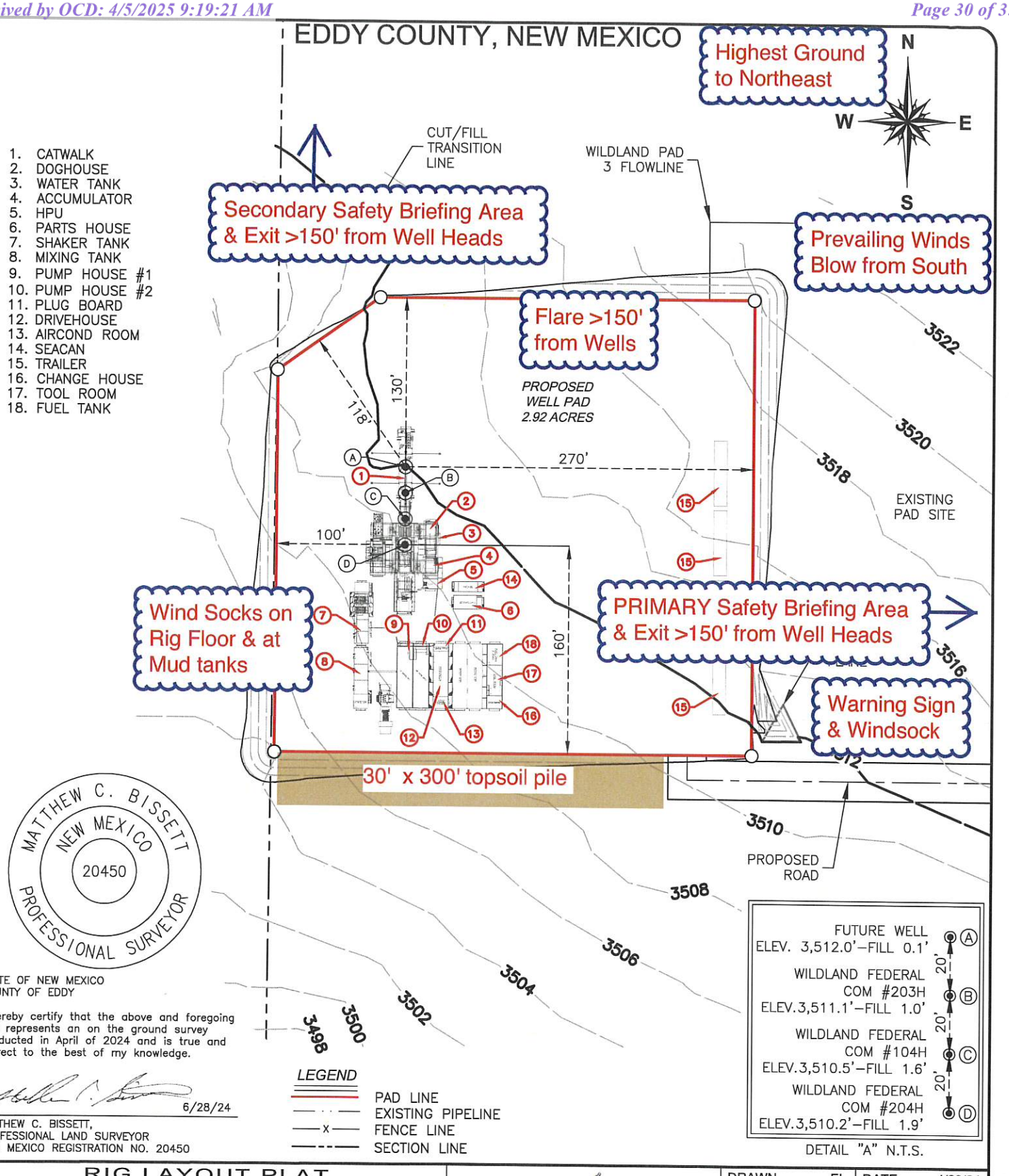
Contacting Authorities

Silverback Operating II, LLC's personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Silverback's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Public Safety	
Eddy County Sheriff	(575) 887-7551
Carlsbad Fire Department	(575) 885-3125
Artesia General Hospital	(575) 748-3333
Ambulance	911
Department of Public Safety	(392) 392-5588
Oil Conservation Division	(575) 748-1823
New Mexico Energy, Minerals & Natural Resources Department	(575) 748-1283
Silverback Operating II, LLC	
Drilling Manager	Wade Chapman- 361-215-2373
Drilling Engineer	
Operations Manager	Wade Chapman- 361-215-2373
Company Representative	Fatma Abdallah- 832-506-7262
Drilling Contractor	
Tool Pusher	
Relief Tool Pusher	
Drilling Manager	
Silverback Operating II, LLC Safety	
EHS Coordinator	Mark Ritchie- 713-553-8320
Field Safety Technician	
BLM ON-CALL LIST	
On-Call Engineer	575-706-2779
BLM Eddy County PET On-Call	575-361-2822
BLM Hobbs County PET On-Call	575-689-5981

EDDY COUNTY, NEW MEXICO

1. CATWALK
2. DOGHOUSE
3. WATER TANK
4. ACCUMULATOR
5. HPU
6. PARTS HOUSE
7. SHAKER TANK
8. MIXING TANK
9. PUMP HOUSE #1
10. PUMP HOUSE #2
11. PLUG BOARD
12. DRIVEHOUSE
13. AIRCOND ROOM
14. SEACAN
15. TRAILER
16. CHANGE HOUSE
17. TOOL ROOM
18. FUEL TANK



STATE OF NEW MEXICO
COUNTY OF EDDY

I hereby certify that the above and foregoing plat represents an on the ground survey conducted in April of 2024 and is true and correct to the best of my knowledge.

6/28/24

MATTHEW C. BISSETT,
PROFESSIONAL LAND SURVEYOR
NEW MEXICO REGISTRATION NO. 20450

LEGEND

- PAD LINE
- EXISTING PIPELINE
- FENCE LINE
- SECTION LINE

DETAIL "A" N.T.S.

RIG LAYOUT PLAT

SILVERBACK OPERATING II, LLC.
WILDLAND FEDERAL COM # 203H, WILDLAND FEDERAL COM #104H, WILDLAND FEDERAL COM #204H PAD SITE

SITUATED IN
SECTION 26, T17S, R27E
EDDY COUNTY, NEW MEXICO

NOTES:
1. SURVEY RECONSTRUCTION FILED IN THE OFFICE OF ATWELL, LLC.
2. ALL BEARING AND COORDINATES SHOWN ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983.
3. THE ABOVE SKETCH REPRESENTS THE LOCATION AS STAKED ON THE GROUND AND IS FOR PERMIT PURPOSE ONLY.
4. THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY.
5. UNIT DESCRIPTION PROVIDED BY CLIENT.

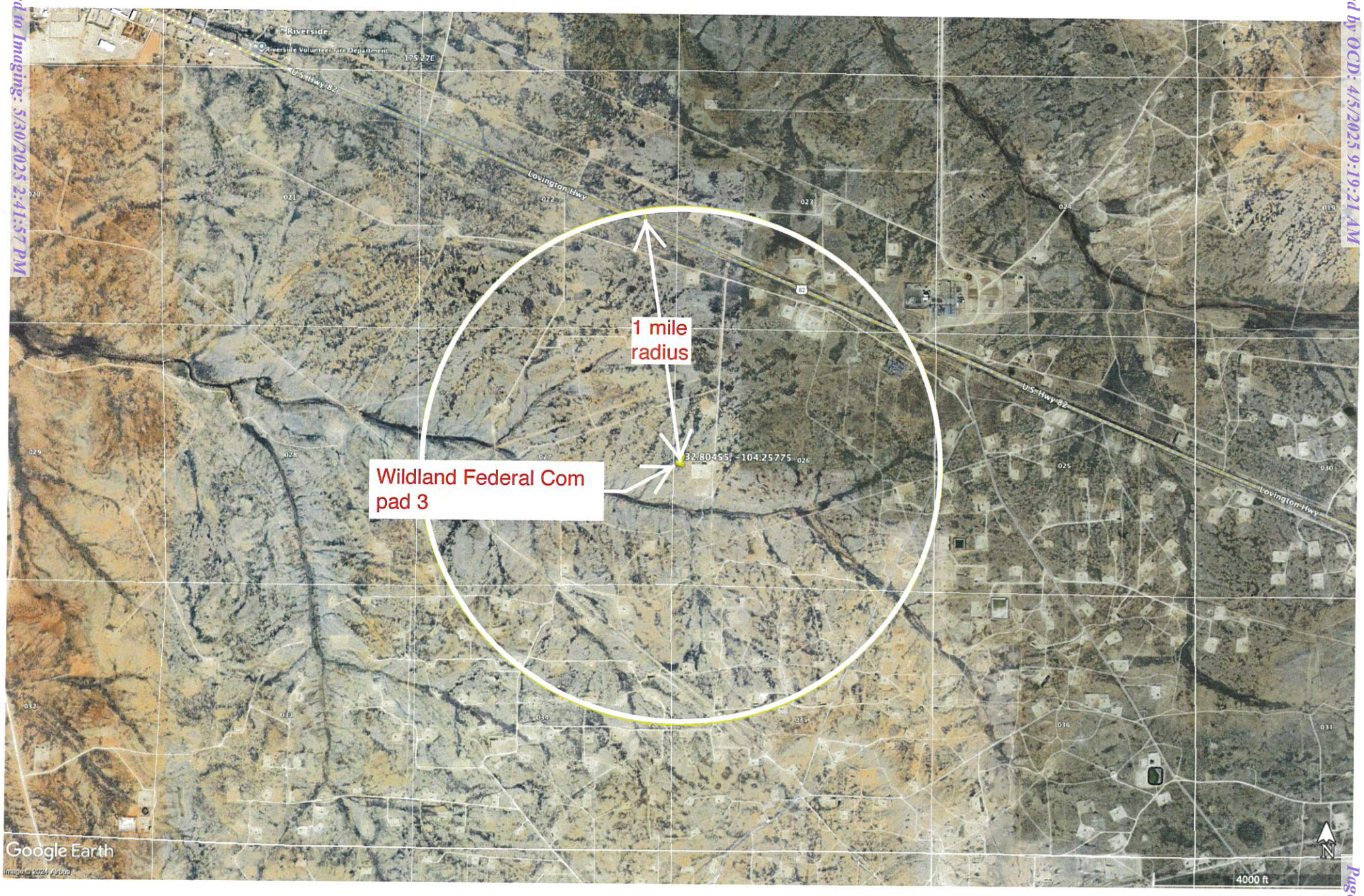
SILVERBACK EXPLORATION

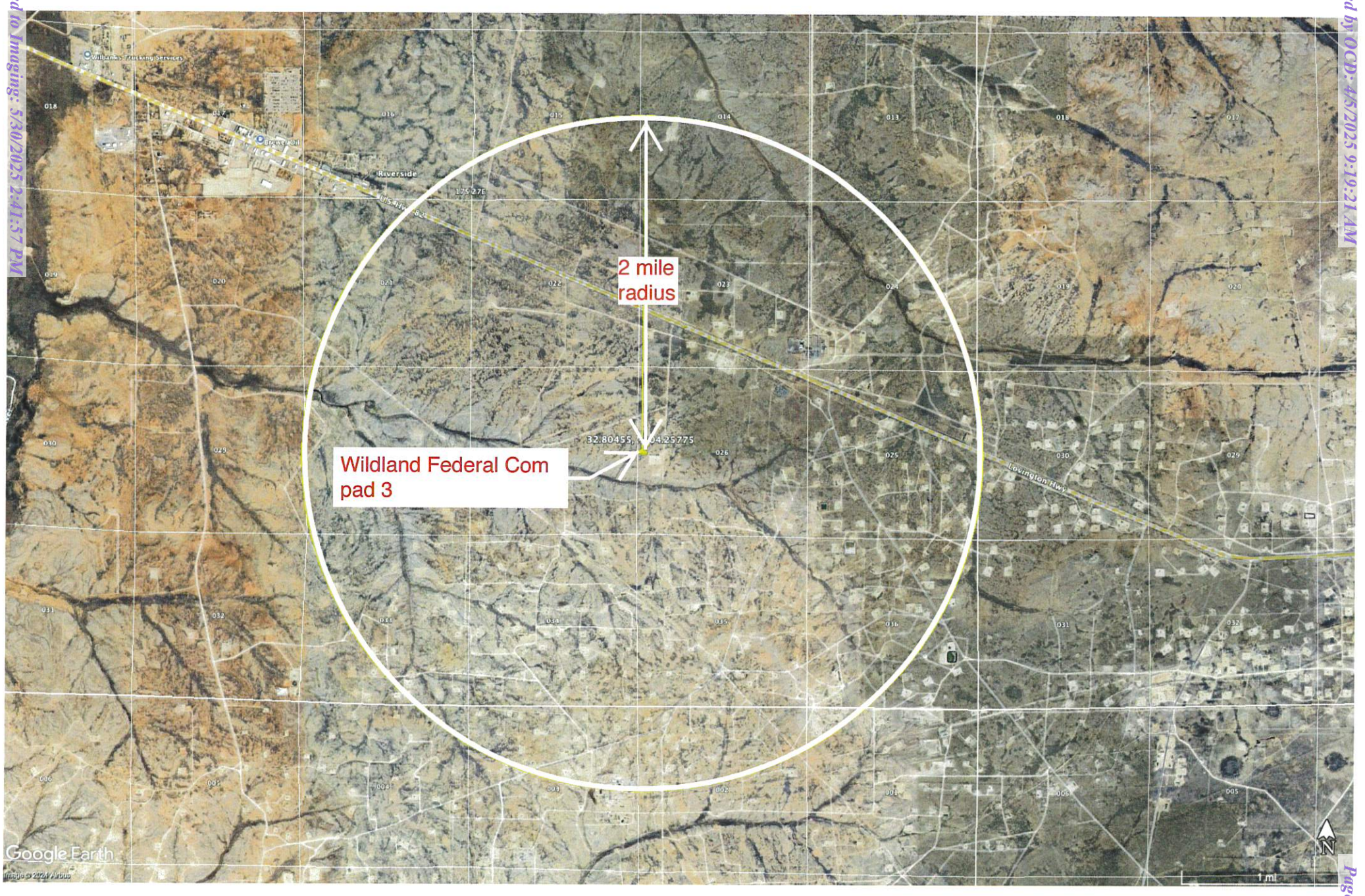
ATWELL
866.850.4200 www.atwell-group.com
10100 Reunion Place, Suite 700
San Antonio, Texas 78216
TBPLS FIRM # 10194153

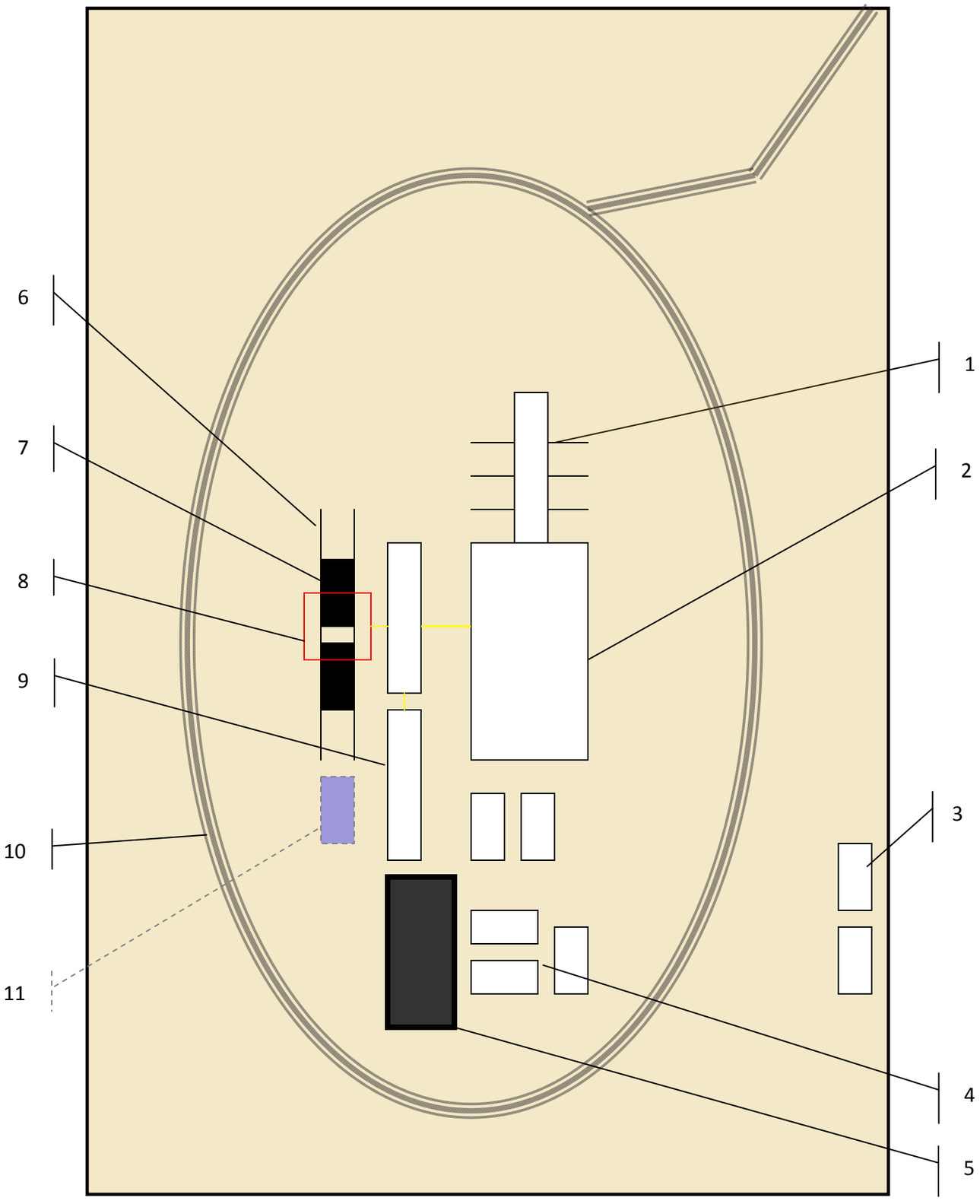
DRAWN	EL	DATE	4/29/24
CHECKED	RC	DATE	4/29/24
APP'D		DATE	
SCALE	1"=100'	PAGE	8 OF 10

REV#	DATE	DESC.
3	6/28/24	UPDATE

JOB NO. 23005268







Schematic Closed Loop Drilling Rig*

1. **Pipe Rack**
2. **Drill Rig**
3. **House Trailers/ Offices**
4. **Generator/Fuel/Storage**
5. **Overflow-Frac Tank**
6. **Skids**
7. **Roll Offs**
8. **Hopper or Centrifuge**
9. **Mud Tanks**
10. **Loop Drive**
11. **Generator (only for use with centrifuge)**

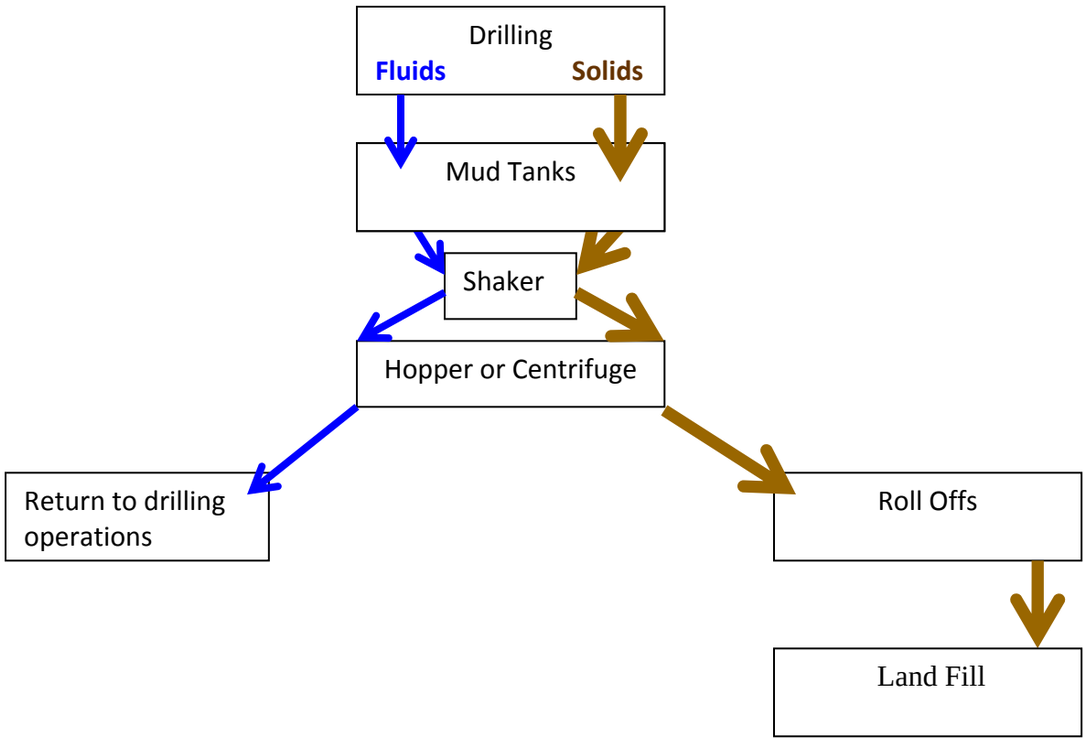
***Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available**

Above: Centrifugal Closed Loop System

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

Closed Loop Drilling System: Mud tanks to right (1)
Hopper in air to settle out solids (2)
Water return pipe (3)
Shaker between hopper and mud tanks (4)
Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service

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

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 448978
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
bwood	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/5/2025
bwood	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/5/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	5/30/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/30/2025
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.	5/30/2025
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.	5/30/2025