

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

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

Type of action: [ ] Below grade tank registration
[ ] Permit of a pit or proposed alternative method
Pit 1 [ ] Closure of a pit, below-grade tank, or proposed alternative method
[ ] Modification to an existing permit/or registration
[X] Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: WPX Energy OGRID #: 246289
Address: 5315 Buena Vista Drive, Carlsbad, NM 88220
Facility or well name: Fed G Gas Com #1
API Number: 30-015-20848 OCD Permit Number: 313317
U/L or Qtr/Qtr J Section 21 Township 20S Range 20E County: Eddy
Center of Proposed Design: Latitude 32.556532 Longitude -103.974915 NAD83
Surface Owner: [X] Federal [ ] State [ ] Private [ ] Tribal Trust or Indian Allotment

2. [X] Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: [ ] Drilling [ ] Workover
[X] Permanent [ ] Emergency [ ] Cavitation [ ] P&A [ ] Multi-Well Fluid Management Low Chloride Drilling Fluid [ ] yes [ ] no
[ ] Lined [X] Unlined Liner type: Thickness mil [ ] LLDPE [ ] HDPE [ ] PVC [ ] Other
[ ] String-Reinforced
Liner Seams: [ ] Welded [ ] Factory [ ] Other Volume: bbl Dimensions: L x W x D

3. [ ] Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
[ ] Secondary containment with leak detection [ ] Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
[ ] Visible sidewalls and liner [ ] Visible sidewalls only [ ] Other
Liner type: Thickness mil [ ] HDPE [ ] PVC [ ] Other

4. [ ] Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
[ ] Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,
institution or church)
[ ] Four foot height, four strands of barbed wire evenly spaced between one and four feet
[ ] Alternate. Please specify

6.  
**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)  
 Screen  Netting  Other \_\_\_\_\_  
 Monthly inspections (If netting or screening is not physically feasible)

7.  
**Signs:** Subsection C of 19.15.17.11 NMAC  
 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
 Signed in compliance with 19.15.16.8 NMAC

8.  
**Variations and Exceptions:**  
 Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  
**Please check a box if one or more of the following is requested, if not leave blank:**  
 Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.  
**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC  
*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

<b><u>General siting</u></b>	
<b><u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u></b> - <input type="checkbox"/> NM Office of the State Engineer - iWATERS database search; <input type="checkbox"/> USGS; <input checked="" type="checkbox"/> Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
<b><u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit .</u></b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. <b>(Does not apply to below grade tanks)</b> - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. <b>(Does not apply to below grade tanks)</b> - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. <b>(Does not apply to below grade tanks)</b> - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. <b>(Does not apply to below grade tanks)</b> - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b><u>Below Grade Tanks</u></b>	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b><u>Temporary Pit using Low Chloride Drilling Fluid</u></b> (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

Within 100 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

**Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  
 - Topographic map; Visual inspection (certification) of the proposed site  Yes  No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Yes  No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Yes  No

Within 300 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

**Permanent Pit or Multi-Well Fluid Management Pit**

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  
 - Topographic map; Visual inspection (certification) of the proposed site  Yes  No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Yes  No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Yes  No

Within 500 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

10. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
  - Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
  - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
  - Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
  - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
  - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11. **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
  - Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
  - A List of wells with approved application for permit to drill associated with the pit.
  - Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
  - Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
  - Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

**Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Multi-well Fluid Management Pit  
 Alternative
- Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  On-site Trench Burial  
 Alternative Closure Method

14.

**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

**Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. Groundwater is 93.8 feet below ground surface at the Site - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

16. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17. **Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Jim Raley Title: Environmental Specialist

Signature:  Date: 1/24/2023

e-mail address: jim.raley@dvn.com Telephone: 575-689-7597

18. **OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature:  Approval Date: 01/25/2023

Title: Environmental Specialist-A OCD Permit Number: Pit 1

19. **Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: \_\_\_\_\_

20. **Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

22.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_



# ENSOLUM

## CLOSURE PLAN – RESERVE PIT

Site Location:

**Federal G Gas Com #1  
Eddy County, New Mexico  
API – 30-015-20848**

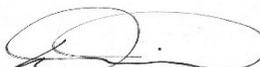
January 20, 2023  
Ensolum Project No. 03A1987002

Prepared for:

**WPX Energy Permian, LLC  
5315 Buena Vista Drive  
Carlsbad, New Mexico 88220  
Attention: Jim Raley**

Prepared by:

  
\_\_\_\_\_  
Joseph S. Hernandez  
Senior Geologist

  
\_\_\_\_\_  
Daniel R. Moir, PG  
Senior Managing Geologist

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**Appendix A:** Figure 1: Site Receptor Map  
Figure 2: Reserve Pit Location

**Appendix B:** Well Record

### 1.0 INTRODUCTION

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), is submitting notification of cessation of operations and has prepared this *Closure Plan* for the decommissioning and removal of a permanent historical reserve pit associated with the Federal G Gas Com #1 well (hereinafter referred to as the “Site”) (**Figure 1** in **Appendix A**). WPX is preparing to close the reserve pit through the waste excavation and removal method and this *Closure Plan* will describe the required components of Title 19, Chapter 15, Part 17, Section 13 (19.15.17.13) of the Mexico Administrative Code (NMAC) (also referred to as Part 17). This Closure Plan is being submitted in conjunction with New Mexico Oil Conservation Division (NMOCD) Form C-144 – *Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application* (Form C-144).

### 2.0 SITE DESCRIPTION

The Site is located in Unit J, Section 21, Township 20 South, Range 30 East, in Eddy County, New Mexico (32.556535° N, -103.974906° W) and is associated with oil and gas production on federal land managed by the Bureau of Land Management (BLM).

The reserve pit is situated on the northwest side of the production pad and measures approximately 7,000 square feet in areal extent. The reserve pit was approved for use as an unlined reserve pit on May 19, 2004. Due to the plugging and abandoning of the associated production well and the ongoing reclamation activities related to the pad, WPX is completing closure planning activities related to the reserve pit, which will coincide with pad reclamation activities.

### 3.0 SITING CRITERIA

Ensolum characterized the Site according to 19.15.17.10 (C) NMAC. Results from the desktop review are presented on pages 2 through 5 of Form C-144. Potential site receptors are identified on **Figure 1** in **Appendix A**.

	YES	NO
<b>Within 300 feet of a continuously flowing watercourse or any other significant watercourse?</b>		X
<b>Within 200 feet of any lakebed, sinkhole, or playa lake?</b>		X
<b>Within 300 feet of any permanent residence, school, hospital, institution or church?</b>		X
<b>Within 500 feet of a spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes?</b>		X
<b>Within 1,000 feet of any fresh water well or spring?</b>		X
<b>Within incorporated municipal boundaries or within a defined municipal fresh water field?</b>		X
<b>Within 300 feet. of a wetland?</b>		X
<b>Overlying a subsurface mine?</b>		X
<b>Overlying an unstable area such as karst geology (High Potential)?</b> If no, overlying Medium Potential?	X	
If no, overlying Low Potential?		X
<b>Within a 100-year floodplain?</b>		X

Depth to water beneath the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on regional data and a depth to water boring installed within ½-mile of the Site. A depth to water boring CP-1937 – POD 1 was advanced on December 29, 2022 northwest of the well pad (32.556261 °N, -103.974978 °W). The boring was observed by a geologist and the lithology and soil conditions (moisture content) were documented and is presented in **Appendix B**. The boring was advanced to a total depth of 101 feet bgs and was allowed to sit for at least 72 hours in order to allow slow-infiltrating groundwater to be collected, if present, into the borehole. Following the 72-hour waiting period, an interface probe was lowered into the borehole to assess for the presence or absence of groundwater. It was determined groundwater was present in the borehole at 93.8 feet bgs and as such, depth to water beneath the Site is estimated to be between 51 and 100 feet bgs.

#### 4.0 PROTOCOLS AND PROCEDURES

While the reserve pit was constructed and in operation prior to 2013 (when the current Part 17 was implemented), WPX has elected to follow the protocols and procedures regarding closure and reclamation of the reserve pit as outlined in 19.15.17.13 NMAC – Closure and Site Reclamation Requirements. Specifically, WPX plans to remove waste within the reserve pit and close. This will include:

- Notification to NMOCD and BLM of closure activities with a timeline, which is anticipated to be completed immediately following the approval of this *Closure Plan*;
- Removal of all contents of the reserve pit and transferring those materials (liquid and/or soil) to an approval landfill (see Section 6.0);
- Complete confirmation sampling as described in Section 5.0 of this *Closure Plan*;
- Manage soil beneath the reserve pit based on analytical results that will be compared to the Table I Closure Criteria provided in 19.15.17.13 NMAC;
- Following approval of waste management and remaining soil conditions, with the approval of NMOCD, the reserve pit will be backfilled as described in Section 7.0;
- Recontour the Site to blend in with the surrounding undisturbed pasture areas; and
- Following backfill and recontouring the Site, WPX will revegetate and monitor the Site for final reclamation designation as described in Section 8.0.

The use of 19.15.17.13 NMAC will guide field activities, but WPX understands the importance of keeping an open line of communication with NMOCD and BLM throughout the closure and reclamation process. The following sections will detail applicable protocols and procedures that will be applied for closure of the reserve pit at this Site.

#### 5.0 CONFIRMATION SAMPLING PLAN

Based on the results of the Siting Criteria completed in Section 3.0, the following NMOCD Table I Closure Criteria (Closure Criteria) will apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO) Combined: 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride will be applied to the top 4 feet of the reserve pit footprint, per 19.15.17.13.H (3) NMAC for the top 4 feet of the reserve pit to support establishment of vegetation at the Site.

Following the removal of all fluids and solids from the reserve pit, at a minimum, one 5-point composite soil sample will be collected. The composite will include any visually stained or wet soils observed. The 5-point composite sample(s) will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite soil sample(s) will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported and chilled under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Analytical results from the composite soil sample(s) will be compared to the Site-specific Table I Closure Criteria. Areas shallower than 4 feet bgs will be evaluated by the reclamation requirement.

If soil beneath the reserve pit exceeds the Table I Closure Criteria and/or the reclamation requirement, WPX will notify NMOCD and delineate impacts in subsurface soil. Impacted soil and/or waste-containing soil in the top 4 feet will be excavated and hauled off to the permitted landfill unless otherwise directed by NMOCD.

## 6.0 DISPOSAL FACILITY

Contents from the reserve pit will be removed and transported to R360 Environmental Solutions, LLC located in Hobbs, New Mexico (R360) for final deposition. If soil beneath the contents of the reserve pit requires removal based on analytical analysis indicating COC concentration(s) exceed the Table I Closure Criteria and/or reclamation requirement, those soils will also be disposed of at the R360 facility.

## 7.0 SOIL BACKFILL AND COVER DESIGN SPECIFICATIONS

Once the contents of the reserve pit are removed and any soil below those contents requiring removal (impacted soil and/or waste-containing soil in the top 4 feet), the reserve pit will be backfilled utilizing locally procured non-waste containing caliche and topsoil, specifically caliche and soil that does not contain chloride at concentrations greater than 600 mg/kg.

Per 19.15.17.13.H (3) and (4) NMAC, WPX will backfill the reserve pit in a manner that will match surrounding contours of the pasture and capped with at least 1-foot of topsoil that will be supportive of establishing vegetation. When recontouring the Site, WPX will construct the cover suitable to prevent ponding or erosion during the revegetation and reclamation process.

## 8.0 RE-VEGETATION AND RECLAMATION PLAN

Per 19.15.17.13.H(5) NMAC, WPX will follow through with revegetating the Site. This Site is located on federal land and as such, the reclaimed area will be seeded with an approved BLM seed mixture.

WPX will observe the progress of revegetation throughout the Site and will reapply seeds if coverage does not appear to be adequate in a timely manner. Seeding will occur either in early spring or fall when temperatures and precipitation totals are more conducive for seed germination and growth.

The Site will be deemed reclaimed when vegetation coverage has been established to at least 70 percent (%) of pre-disturbance levels. Due to the original construction of the reserve pit (2004), WPX will utilize surrounding, undisturbed vegetation coverage as a milestone marker in evaluating coverage percentage. Once reclamation is completed, a summary letter will be submitted to NMOCD.

Any additional requirements for reclamation of the Site from BLM will be implemented in conjunction with those activities outlined in this *Closure Plan*.

## 9.0 REPORTING AND SCHEDULE

WPX is submitting this *Closure Plan* for NMOCD review and approval. Because the production well has been plugged and abandoned and reclamation activities related to the well pad are in progress, WPX would like to utilize this *Closure Plan* as a **Notice of Intent** for closure activities as well. WPX plans to immediately begin closure activities upon NMOCD approval of this *Closure Plan*. WPX will notify BLM concurrently via certified mail, return receipt requested with NMOCD so as not to delay closure activities and the timeline.

Closure activities are tentatively scheduled to begin within 90 days of the approval of this *Closure Plan*. Due to the timing of closure activities, WPX anticipates reseeding the reclaimed area in the spring of 2023 and follow-up with reclamation inspections on a quarterly basis. A *Closure Report* will be filed on Form C-144, following the initial seeding event. The *Closure Report* will incorporate the following:

- Details regarding soil sampling;
- Fluids and/or soil disposition;
- Backfilling and revegetation steps; and
- Any communication WPX had with NMOCD throughout the closure activities.

WPX will continue with revegetation inspections quarterly and apply additional seed mixtures as deemed necessary to meet the reclamation requirements. Once vegetation coverage is at least 70% of the surrounding pasture area, WPX will submit a Final C-144 to the NMOCD in order to close out the reserve pit.

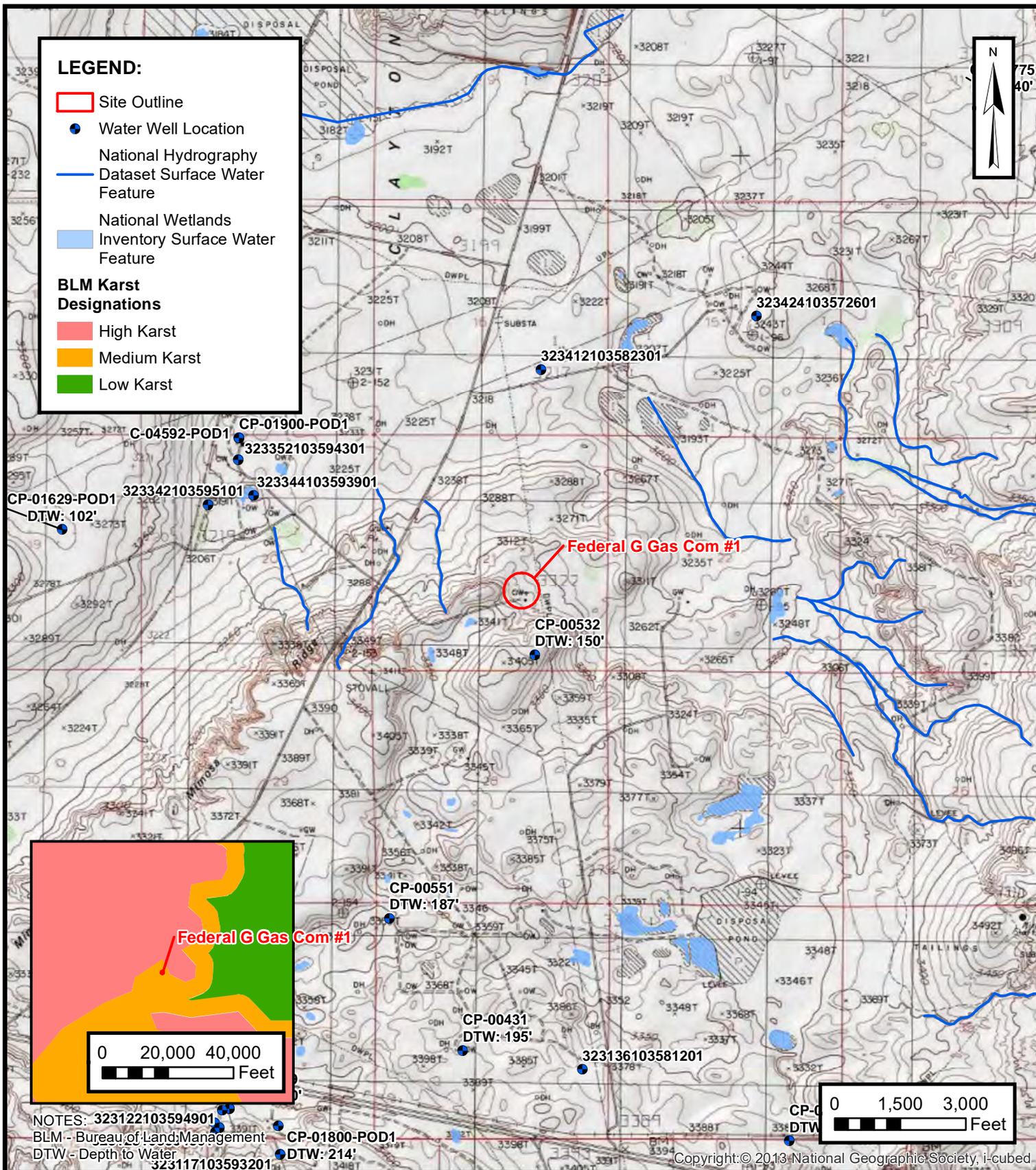
WPX believes this *Closure Plan* meets the requirements of 19.15.17.13 NMAC and is protective of human health, the environment, and groundwater. If NMOCD has any questions regarding this *Closure Plan*, WPX would appreciate a meeting to discuss further.



## APPENDIX A

### Figures

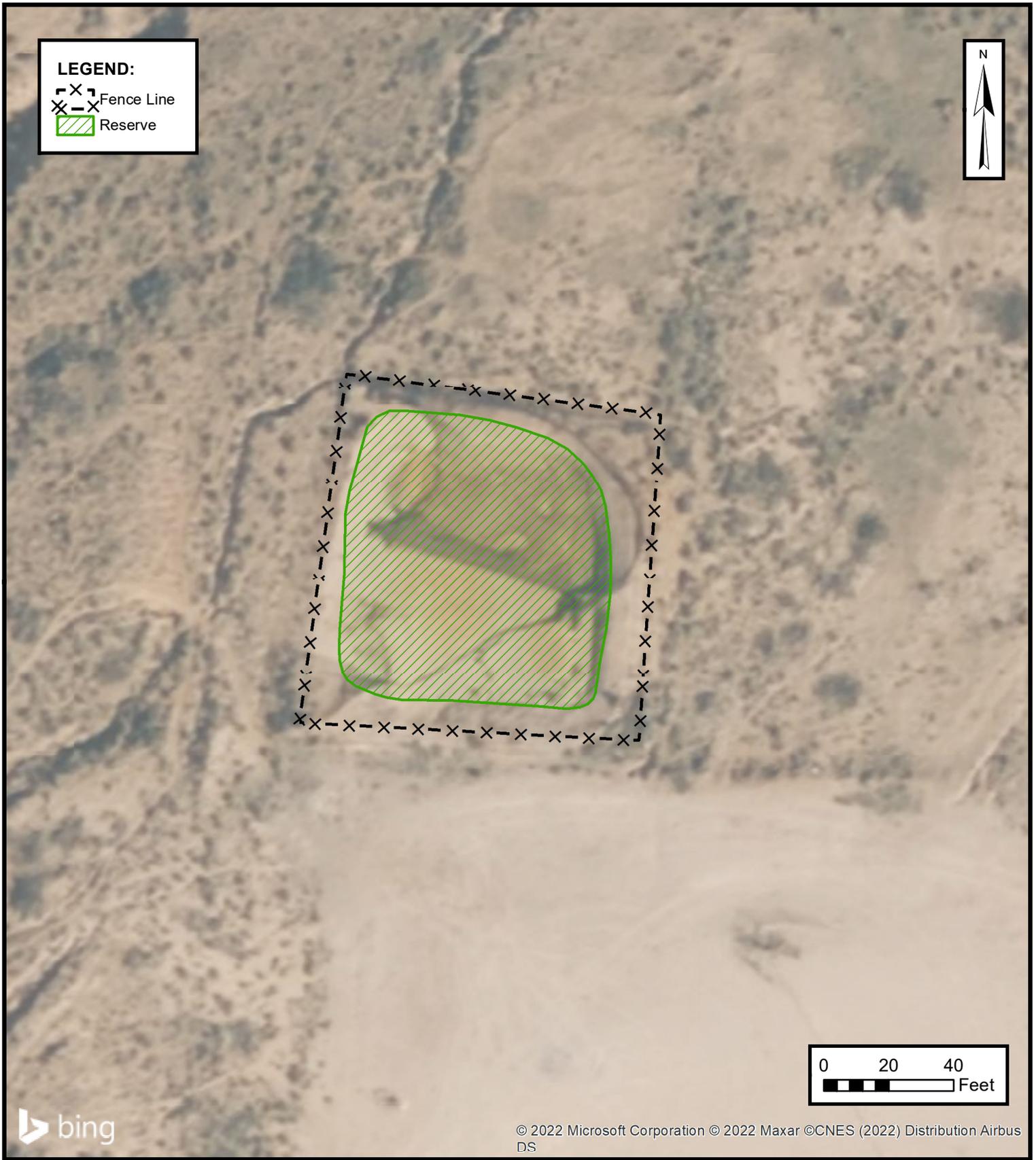
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**SITE RECEPTOR MAP**

WPX ENERGY PERMIAN, LLC  
 FEDERAL G GAS COM #1  
 Unit J, Sec 21, T20S, R30E Eddy County,  
 New Mexico

**FIGURE**  
**1**



**RESERVE PIT LOCATION**  
 WPX ENERGY PERMIAN, LLC  
 FEDERAL G GAS COM #1  
 Unit J, Sec 21, T20S, R30E Eddy  
 County, New Mexico

**FIGURE**  
**2**



APPENDIX B

Well Record

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2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

January 19, 2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record CP-1937 Pod-1

To whom it may concern:

Attached please find a well log & record, in duplicate, for a one (1) soil borings, CP-1937 Pod-1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DTI JAN 19 2023 AM 10:51



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S) CP-1937	
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE ZIP NM 88210
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 33	SECONDS 22.54	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	58	29.92	* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec. 21 T20S R30E, NMPM						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 12/29/2022	DRILLING ENDED 12/29/2022	DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 93.8	DATE STATIC MEASURED 1/10/2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	101	6.5"	Soil boring	--	--	--	--
	0	81	6.5"	1" PVC SCH 80 temporary material	flush tread 2 TPI	0.935	0.179	--
	81	101	6.5"	1" PVC SCH 80 temporary material	flush tread 2 TPI	0.935	0.179	0.010"

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 01/28/2022)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2			

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, fine-grained, poorly graded, dry, tan	Y    ✓ N	
	4	24	20	Caliche, consolidated with fine-grained sand, dry, white/tan	Y    ✓ N	
	24	50	26	Sand, fine-grained, poorly graded, with caliche, dry, tan	Y    ✓ N	
	50	55	5	Sand, fine-grained, poorly graded, dry, reddish brown	Y    ✓ N	
	55	60	5	Sand, fine-grained, poorly graded, poorly cemented, dry, reddish brown	Y    ✓ N	
	60	101	41	Clay, Stiff, (Red Bed) dry, Reddish Brown	✓ Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary boring to determine presence and depth to groundwater. Top of boring and material sealed with bentonite. Temporary well materials to be pulled and boring to be plugged on approximately 02/01/2023, using Type I/II neat cement per OSE approved plugging plan of operations. Plugging record to be filed afterwards." <span style="float:right;">+</span>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins OSE DTI JAN 19 2023 AM 10:51 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

# WR-20 Well Record and Log-forsign

Final Audit Report

2023-01-19

Created:	2023-01-19
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAACBg8HZCMcE_lq-qgyEsg9YTs3DdqnsBU

## "WR-20 Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-01-19 - 5:13:35 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-01-19 - 5:14:55 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-01-19 - 5:16:30 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-01-19 - 5:16:50 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-01-19 - 5:16:50 PM GMT

USE DTI JAN 19 2023 AM 10:51

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

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

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

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

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

CONDITIONS  
 Action 179578

**CONDITIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 179578
	Action Type: [C-144] Temporary Pit Plan (C-144T)

**CONDITIONS**

Created By	Condition	Condition Date
jburdine	None	1/25/2023