Form C-144 Revised October 11, 2022

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

Santa Pe, INIVI 87303
Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Pit1  Below grade tank registration  Permit of a pit or proposed alternative method  Closure of a pit, below-grade tank, or proposed alternative method  Modification to an existing permit/or registration  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.
Operator: Avant Natural Resources, LLC.  OGRID #: 330396
Address: 1515 Wynkoop Street, Suite 700, Denver, CO 80202
Facility or well name: Lea Federal Unit #4H
API Number: 30-025-02424 OCD Permit Number: P1-03355  U/L or Qtr/Qtr SENE Section 11 Township 20 South Range 34 East County: Lea  Center of Proposed Design: Latitude 32.5895081 Longitude -103.524559 NAD83
U/L or Qtr/Qtr SENE Section 11 Township 20 South Range 34 East County: Lea
Center of Proposed Design: Latitude 32.5895081 Longitude -103.524559 NAD83
Surface Owner: 🗸 Federal 🗌 State 🗌 Private 🔲 Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC     Temporary: Drilling Workover   Drilling Workover   Drilling Huid Management   Low Chloride Drilling Fluid yes no     Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other     String-Reinforced   String-Reinforced   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
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\_

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.  Variances 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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks)  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. ( <b>Does not apply to below grade tanks</b> ) - FEMA map	Yes No
Below Grade Tanks	
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	☐ Yes ☐ 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	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (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	☐ Yes ☐ 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	☐ Yes ☐ 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	Yes 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	
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ 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	
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:		
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 docattached.  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 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.  Decreased Bits Decreased Assistance Charles of the Decrease Charles of th	
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	
☐ 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. D. 1015 17 10 PM C	
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 F.	luid Management Pit
Alternative	
Proposed Closure Method: Waste Excavation and Removal	
<ul> <li>✓ Waste Removal (Closed-loop systems only)</li> <li>✓ On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>	
☐ In-place Burial ☐ On-site Trench Burial	
Alternative Closure Method	
14. Weste Everystian and Democral Clasure Plan Checklists (10.15.17.12 NMAC) Instructions. Each of the following items must be	attacked to the
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.	attacnea to tne
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F	
19.15.17.10 NMAC for guidance.	ieuse rejer io
Ground water is less than 25 feet below the bottom of the buried waste.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is between 25-50 feet below the bottom of the buried waste	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa	☐ Yes ☐ No
lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence	Yes No
at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
oo I fon and when the wedand Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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.  - Written confirmation or verification from the municipality; Writ		
L	ten approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNI	RD-Mining and Mineral Division	Yes No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau	of Geology & Mineral Resources; USGS; NM Geologica	.1
Society; Topographic map Within a 100-year floodplain.		Yes No
- FEMA map		☐ Yes ☐ No
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 19.15.17.13 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		
Operator Application Certification:		11.11.6
I hereby certify that the information submitted with this application is tr		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
18.  OCD Approval: Permit Application (including closure plan)	· • ·	
COD Beautiful State / I / Mush	Annuaral Datas 6/	l de la companya de
OCD Representative Signature:	Approval Date:	18/2024
Title: Environmental Specialist Advanced	OCD Permit Number: P1-03355	18/2024
	OCD Permit Number: P1-03355  15.17.13 NMAC an prior to implementing any closure activities and submidays of the completion of the closure activities. Please of	nitting the closure report.
Title: Environmental Specialist Advanced  19. Closure Report (required within 60 days of closure completion): 19. Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained as  20. Closure Method:	OCD Permit Number: P1-03355  15.17.13 NMAC an prior to implementing any closure activities and submedays of the completion of the closure activities. Please and the closure activities have been completed.	nitting the closure report. do not complete this

T	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.
Name (Print): Sarah Ferreyros	Title: Director of Regulatory
Signature: Sarah Ferreyros	Date: 06/12/2024
Signature: Sarah Ferreyros  e-mail address: sarah@avantnr.com	Telephone: 720-854-9020



CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

### PIT CLOSURE REPORT

Lea Federal Unit #004H
API #30-025-02424
Permit #P1-03355
Lea County, New Mexico
SENE, Section 11, Township 20 South, Range 34 East
GPS Coordinates: 32.5895081,-103.524559

#### **PREPARED FOR**

Avant Natural Resources, LLC 1515 Wynkoop Street Denver, Colorado 80202

### **PREPARED BY**

CDH Consulting, LLC Thornton, Colorado



June 5, 2024

Joseph Kennedy
Environmental Specialist
Environmental Bureau
Oil Conservation Division
New Mexico Department of Energy, Minerals, & Natural Resources
506 West Texas Avenue
Artesia, New Mexico 88210

### **RE:** Pit Closure Report

Lea Federal Unit #004H
API #30-025-02424
Permit #P1-03355
Lea County, New Mexico
SENE, Section 11, Township 20 South, Range 34 East
GPS Coordinates: 32.5895081,-103.524559

#### Joseph Kennedy,

On behalf of Avant Natural Resources, LLC (Avant), CDH Consulting, LLC (CDH) is submitting this Pit Closure Report in accordance with 19.15.17.13 New Mexico Administrative Code (NMAC) to the New Mexico Department of Energy, Minerals, and Natural Resources-Oil Conservation Division (NMOCD) detailing protocols and procedures closing the permitted closed-loop tanks (Attachment A) formerly utilized at the Lea Federal Unit #004H (API #30-025-02424) well production location (Figure 1).

Avant discovered that the Lea Federal Unit #004H had an approved C-144 for a closed-loop tank (Pit Permit #P1-03355) during a recent acquisition. The original application was submitted by Legacy Reserves Operating, LP on June 9, 2011. As the current operator of the Lea Federal Unit #004H, and in an effort to be good stewards of the land, Avant's goal is to properly close the closed-loop pit tank system as soon as possible. Recent communication with NMOCD regarding closure of closed-loop tank systems confirmed the following: the NMOCD does not require sampling for a closed-loop system consisting of only above ground storage containers unless there was a release/spill from the closed-loop system. The Lea Federal Unit #004H did not have a release reported from the closed-loop system, therefore sampling for closure is not required.

Below is the modification request (to current pit rule requirements) and results from the recent closed-loop system inspection.

#### MODIFICATION TO AN EXISTING PERMIT/OR REGISTRATION

Avant requests the NMOCD revise the registration to meet the current pit rule requirements and sampling limits (19.15.17.13 NMAC).



#### **PIT PERMIT CLOSURE**

On February 21, 2024, CDH personnel were onsite to complete a closed-loop inspection of the surface in the area where above ground closed-loop tanks were previously located. During the site inspection, no soil staining or signs of a release were observed in the former location of the closed-loop tanks (Attachment B). As no soil staining or signs of a leak or release were observed during the closed-loop inspection, no closure samples were collected.

CDH, on behalf of Avant, requests the NMOCD approve the closure of Pit Permit #P1-03355.

Please do not hesitate to contact me at (303) 501-3415 or <a href="mailto:KTrantowLim@CDHConsult.com">KTrantowLim@CDHConsult.com</a> if you have any questions or require additional information.

Kind Regards,

**CDH CONSULTING, LLC** 

Elizabeth Naka Environmental Scientist

Clizabeth Naka

Karen Trantow Lim, P.G.
Program Manager, Environmental Compliance

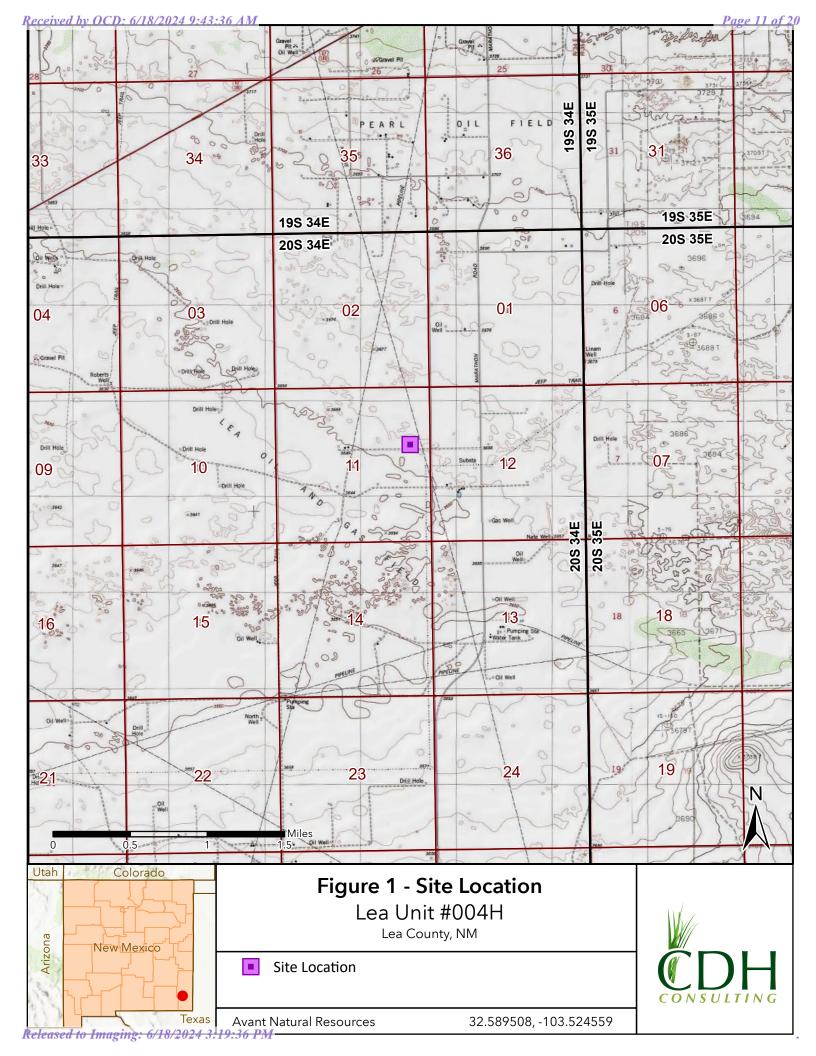
cc: Sarah Ferreyros — Avant Natural Resources, LLC (electronic file)

#### **Attachments**

Figure 1 – Site Location Attachment A – Initial C-144 Attachment B – Closed-Loop Inspection

# **F**IGURE





## **ATTACHMENT A**

Initial C-144 Closed-Loop System Permit Application



Form C-144 CLEZ

1625 N. French Dr , Hobbs, NM 88240

1301 W Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico State of New Mexico
Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

July 21, 2008 For closed-loop systems that only use above

ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

## Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bing and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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.

Operator: Legacy Reserves Operating LP OGRID#: 240974	
Address: P.O. Box 10848 Midland, TX 79702	
Facility or well name. Lea Unit #4H	-
API Number: 30-025-02424 OCD Permit Number: P1-3355	_
U/L or Qtr/Qtr H Section 11 Township 20S Range 34E County: Lea	_
Center of Proposed Design: Latitude Longitude NAD:1927 1983	
Surface Owner: X Federal X State Private Tribal Trust or Indian Allotment	
2.	
☑ Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Operation. 🗌 Drilling a new well 🗌 Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) 🛛 P&A	
Above Ground Steel Tanks or Haul-off Bins	
3. Signer Subsection Coef 10 15 17 11 NIMAC	
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 3 103 NMAC	
4	
Closed-loop Systems 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.	
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 Box 5) - 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:	
Previously Approved Operating and Maintenance Plan API Number:	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)	
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two	
facilities are required.  Disposal Facility Name. Controlled Recovery, Inc. (CRI) Disposal Facility Permit Number: NM-01-0006	
	-
Disposal Facility Name: Disposal Facility Permit Number:	-
Yes (If yes, please provide the information below) No	?
Required for impacted areas which will not be used for future service and operations:	
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 I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
6,	_
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): D. Patrick Darden, P.E. Title: Sr. Engineer	
Signature: Date: 04/27/11	
e-mail address:	

7. OCD Approval: Permit Application (including closure plan) Closure	re Plan (only)
OCD Representative Signature:  Geologist  Title:	OCD Permit Number: P1-03355
8 Closure Report (required within 60 days of closure completion): Subsect Instructions: Operators are required to obtain an approved closure plan prowing The closure report is required to be submitted to the division within 60 days section of the form until an approved closure plan has been obtained and the	or to implementing any closure activities and submitting the closure report.  of the completion of the closure activities. Please do not complete this
9. Closure Report Regarding Waste Removal Closure For Closed-loop Syste Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized.	ems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name.	Disposal Facility Permit Number:
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) \( \Bar{\text{No}} \) No	or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and ope Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	rations:
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief I also certify that the closure complies with all applicable closure requi	re report is true, accurate and complete to the best of my knowledge and rements and conditions specified in the approved closure plan
Name (Print).	Title:
Signature.	Date:
e-mail address:	Telephone:

## Design Plan, Operating & Maintenance Plan, & Closure Plan for OCD Form C-144 Lea Unit #4H

## **DESIGN PLAN:**

Fluid & cuttings coming from drilling operations will pass over the Shale Shaker with the cuttings going to the CRI haul off bin and the cleaned fluid returning to the working steel pits.

## Equipment includes:

- 2 500 bbl steel frac tanks (fresh water for drilling)
- 2 180 bbl steel working pits
- 2-20 cu yards steel haul off bin
- 2 pumps (PZ-7 or equivalent)
- 1 shale shaker
- 1 mud cleaner
- 1 centrifuge (if needed)

## **OPERATING AND MAINTENANCE PLAN:**

Inspection to occur every tour for proper operation of system and individual components. If any problems are found they will be repaired and/or corrected immediately.

## **CLOSURE PLAN:**

All haul bins containing cuttings will be removed from location and hauled to Controlled Recovery, Inc's (NM-01-0006) disposal site located near mile marker 66 on Highway 62/180.

D. Patrick Darden, PE 75593 Senior Operations Engineer

## **ATTACHMENT B**

**Closed-Loop Inspection** 



	Closed Loop Inspections
	Client Name: Avant Natural Resources
	Location: Lea Unit #44
	Time on Location: 3:03 PM Time Off 3:17 PM
	Inspector Name
	Temperature 83
	Wind 22 MPH
	Humidity:
	Inspection type: Closed Loop Inspections Date: 2121, 12024
	Ta . W 4 100
	Truck # 102 Tools used: Note 10+ (Sansung) pictures
	No Apparent Signs of Stains   Spills
	Company Inspecting: CDH Consulting
	Pump Jack on Location
	Note, bigina laurina ou accord an
	Note: piping running on ground on the back (North) of Location
	Don't City City City City City City City Cit
4	

## **Liner Integrity Inspection**

Avant Natural Resources Lea Federal Unit #004H Pit 32.5895081, -103.524559 Lea County, New Mexico



Photo 1: View north of closed-loop tank location, no staining observed



Photo 2: View northeast of closed-loop tank location, no staining observed



## **Liner Integrity Inspection**

Avant Natural Resources Lea Federal Unit #004H Pit 32.5895081, -103.524559 Lea County, New Mexico



Photo 3: View east of closed-loop tank location, no staining observed



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

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 355442

### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	355442
	Action Type:
	[C-144] Temporary Pit Plan (C-144T)

#### CONDITIONS

Created By	Condition Co	ondition ate
joseph.kenr	dy None 6/	6/18/2024