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 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.				
Deperator: Avant Natural Resources, LLC. OGRID #: 330396				
Address: 1515 Wynkoop Street, Suite 700, Denver, CO 80202				
Facility or well name: Lea Federal Unit TR #029				
API Number: 30-025-39077 OCD Permit Number: P1-00284 U/L or Qtr/Qtr NENW Section 24 Township 20 South Range 34 East County: Lea				
U/L or Qtr/Qtr NENW Section 24 Township 20 South Range 34 East County: Lea				
Center of Proposed Design: Latitude 32.5622864 Longitude -103.5159988 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 Low Chloride Drilling Fluid Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x				
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				
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other 				
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off				
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other 				

Netting:	Subsection 1	E of 19.15.17	11 NMAC (Applies	s to permanent pits and	l permanent open top tanks)

Screen Netting Other_

Monthly inspections (If netting or screening is not physically feasible)

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

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:

- \checkmark 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.

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.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ 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 □ 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. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - 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.	🗌 Yes 🗌 No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
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

Keceived by UCD: 6/18/2024 9:31:42 AM	Page 3 of 2
 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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 19.15.17.12 NMAC 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 Previously Approved Design (attach copy of design) API Number: or Permit Number: 	cuments are 9 NMAC 15.17.9 NMAC
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 dot attached.	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

 <u>Permanent Pits Permit Application Checklist</u>: Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the optimis in the box is a standard state.</i> 	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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ 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 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 File □ 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	luid Management Pit			
 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. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC <i>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour</i> <i>provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P</i> 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 	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ NA			
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ☐ No ☐ 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 	🗌 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 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 	🗌 Yes 🗌 No			
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	🗌 Yes 🗌 No			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance				

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Received by OCD: 6/18/2024 9:31:42 AM	Page 5 of 2			
 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No			
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No			
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 				
Within a 100-year floodplain.	☐ Yes ☐ No			
- FEMA map	Yes 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.				
 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 believed. 	ef.			
Name (Print): Title:				
Signature: Date:				
e-mail address: Telephone:				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Image: Closure plan (only) Approval Date: 06/18/2	2024			
Title: Environmental Specialist Advanced OCD Permit Number: P1-00284				
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report.</i> <i>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</i> <i>section of the form until an approved closure plan has been obtained and the closure activities have been completed.</i> Closure Completion Date:				
20. Closure Method: □ Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo □ If different from approved plan, please explain. □ Alternative Closure Method □ Waste Removal (Closed-lo	op systems only)			
 21. <u>Closure Report Attachment Checklist</u>: <i>Instructions: Each of the following items must be attached to the closure report. Please intermark in the box, that the documents are attached.</i> 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) 	dicate, by a check			

Operator Closure Certification:	
	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 clo	osure 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 TR #029 API #30-025-39077 Permit #P1-00284 Lea County, New Mexico NENW, Section 24, Township 20 South, Range 34 East GPS Coordinates: 32.5622864,-103.5159988

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 TR #029 API #30-025-39077 Permit #P1-00284 Lea County, New Mexico NENW, Section 24, Township 20 South, Range 34 East GPS Coordinates: 32.5622864,-103.5159988

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 TR #029 (API #30-025-39077) well production location (Figure 1).

Avant discovered that the Lea Federal Unit TR #029 had an approved C-144 for a closed-loop tank (Pit Permit #P1-00284) during a recent acquisition. The original application was submitted by Samson Resources Company on May 14, 2008. As the current operator of the Lea Federal Unit TR #029, 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 TR #029 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 closedloop 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).

www.CDHConsult.com



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 #P1-00284.

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

Kind Regards,

CDH CONSULTING, LLC

Clizabeth Naka

Elizabeth Naka Environmental Scientist

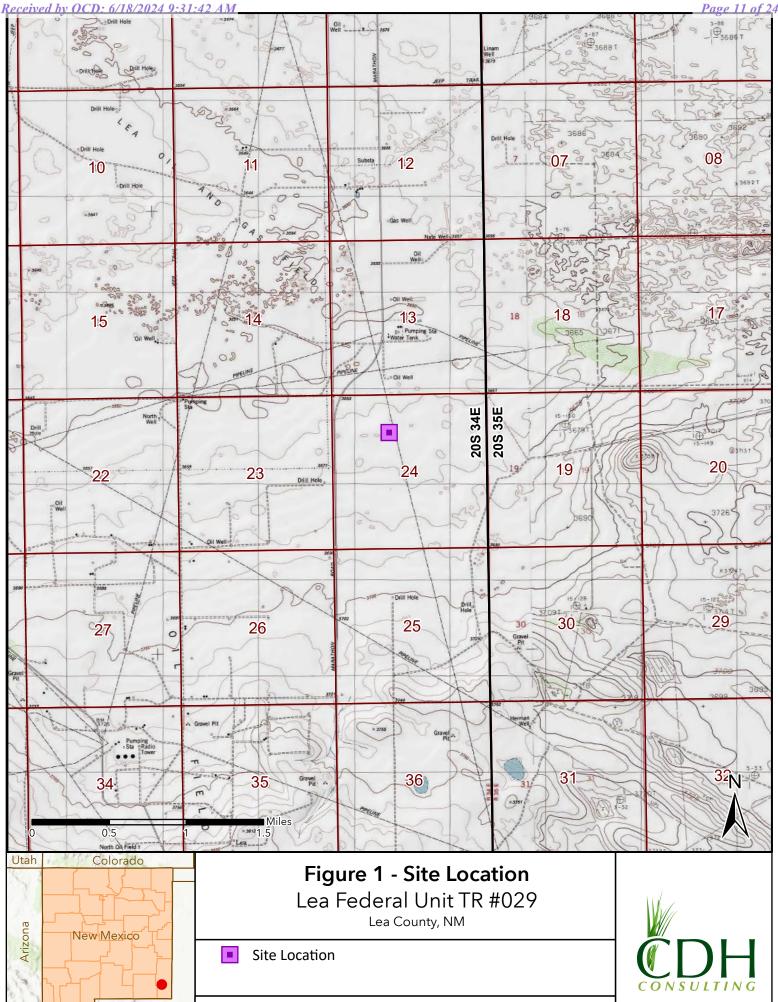
Karen Trantow Lim, P.G. Program Manager, Environmental Compliance

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

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

FIGURE





Texas Avant Natural Resources Released to Imaging: 6/18/2024 3:35:22 PM

32.562286, -103.515999

ATTACHMENT A

Initial C-144 Closed-Loop System Permit Application



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Form C	-144
June 24,	2008

District I State of	f New Mexico Form C-144 June 24, 2008	
1625 N. French Dr., Hobbs, NM 88240 Energy Mineral	s and Natural Resources	
District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410	epartment below-grade tanks, submit to the appropriate	
	th St. Francis Dr. the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD	
	em, Below-Grade Tank, or	
Proposed Alternative Method	Permit or Closure Plan Application	
	system, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method	
	individual pit, closed-loop system, below-grade tank or alternative request	
Please be advised that approval of this request does not relieve the operator of l environment. Nor does approval relieve the operator of its responsibility to cor	hability should operations result in pollution of surface water, ground water or the mply with any other applicable governmental authority's rules, regulations or ordinances.	
Operator: Samson Resource Co	OGRID #: 20165	
Address: 200 N. Loraine St., Ste 1010; Midland, TX 79701		
Facility or well name: Lea Federal #2	.7	
API Number: <u>30-0</u> 25-39.077 OCD Perm	nit Number: PI-00284	
U/L or Qtr/Qtr Section 2 4 Township	p 20-5 Range 34-E County: 1ea	
Center of Proposed Design: Latitude 32.562143'N	Longitude 103.5/55/2'W NAD: 1927 1983	
Surface Owner: 🗌 Federal 📋 State 🔀 Private 🔲 Tribal Trust		
Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Temporary: Drilling Workover	Drying Pad Tanks X Haul-off Bins Other	
Permanent Emergency Cavitation Steel Pit	Lined Unlined	
	Liner type: Thicknessmil LLDPE HDPE PVC	
Liner type: Thicknessmil LLDPE HDPE PVC		
☐ Other ☐ String-Reinforced	Seams: Welded Factory Other	
Seams: Welded Factory Other	Volume:bblyd ³	
Volume:bbl Dimensions: Lx Wx D		
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC	
Volume:bbl	Chain link, six feet in height, two strands of barbed wire at top	
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and	
Tank Construction material:	four feet	
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC	
□ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other	
□ Visible sidewalls and liner	☐ Monthly inspections	
□ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC	
□ Other	12'x24', 2' lettering, providing Operator's name, site location, and	
Liner type: Thicknessmil 🔲 HDPE 🔲 PVC	emergency telephone numbers	
Other	Signed in compliance with 19.15.3.103 NMAC	
Alternative Method:	Administrative Approvals and Exceptions:	
Submittal of an exception request is required. Exceptions must be	Justifications and/or demonstrations of equivalency are required. Please refer to	
submitted to the Santa Fe Environmental Bureau office for consideration of approval.	19.15.17 NMAC for guidance.	
	Please check a box if one or more of the following is requested, if not leave blank:	
	Administrative approval(s): Requests must be submitted to the	
	appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.	
· ·	Exception(s): Requests must be submitted to the Santa Fe	
	Environmental pureau office for consideration of approval	

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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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed- loop system.	
 Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes No
 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 	A Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	n. 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; Written approval obtained from the municipality 	🗌 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
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
 Within an unstable area. 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. - FEMA map	Yes 🗌 No

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 - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Ш	Previously Approved Design (attach copy of design)	API Number:	or Permit Number:
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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. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (required for on-site closure) - 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 - based upon the appropriate of Subsection C for 10.15.17.12 NMAC

Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC

Previously Approved Design (attach copy of design)	API Number:
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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 d attached.	ocuments are
 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 H₂S, 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 Proposed Closure: 19.15.17.13 NMAC	
Type:	Alternative
Proposed Closure Method: D 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for co	onsideration)
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 may require administrative approval from	
the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	
NMAC for guidance.	
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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).	🗌 Yes 🗌 No
- 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; 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; Written approval obtained from the municipality	🗌 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
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. 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. - FEMA map	🗌 Yes 🗌 No

Received	by	OCD:	6/18/2024	9:31:42 AM	
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 closure plan. Please indicate, by a check mark in the box, that the docu Protocols and Procedures - based upon the appropriate requirement Confirmation Sampling Plan (if applicable) - based upon the appropriate appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling flue) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate requirements of Suese State Reclamation Plan - based upon the appropriate Reclamation Plan - based upon the approprise Reclamation Plan - based upon the approprise Reclamation Pla	s of 19.15.17.13 NMAC priate requirements of Subsection F of 19.15.17.13 NMAC ids and drill cuttings) ropriate requirements of Subsection H of 19.15.17.13 NMAC bsection I of 19.15.17.13 NMAC Subsection G of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Haul-o or facilities for the disposal of liquids, drilling fluids and drill cuttings. Disposal Facility Name: <u>Key Atha</u> CRI	ff Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility NR-BI-OOOB Disposal Facility Permit Number:
	ach 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 required Proof of Surface Owner Notice - based upon the appropriate required Construction and Design of Burial Trench (if applicable) based upon Protocols and Procedures - based upon the appropriate requirement Confirmation Sampling Plan (if applicable) - based upon the appropriate required Waste Material Sampling Plan - based upon the appropriate requirement 	priate requirements of 19.15.17.10 NMAC ements of Subsection F of 19.15.17.13 NMAC on the appropriate requirements of 19.15.17.11 NMAC s of 19.15.17.13 NMAC priate requirements of Subsection F of 19.15.17.13 NMAC ments of Subsection F of 19.15.17.13 NMAC ids and drill cuttings or in case on-site closure standards cannot be achieved) posection H of 19.15.17.13 NMAC bsection I of 19.15.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is tru	e, accurate and complete to the best of my knowledge and belief.
Name (Print): Duke Roush	Title:Sr. Surface Landman
Signature: Chile Rouch	Date: 7/7/08
e-mail address: droush@samson.com	Telephone:(432) 683-7063
OCD Approval: Permit Application (including closure plan)	osure Plan (only)
OCD Approval: Permit Application (including closure plan) Cl OCD Representative Signature:	
11. 10.	Desure Plan (only) Approval Date:
OCD Representative Signature: <u>Mis Usellieurs</u> Title: <u>Disf. Superviso</u> <u>Closure Report (required within 60 days of closure completion)</u> : Sub	Approval Date: <u></u> OCD Permit Number: <u></u> P1-00284
OCD Representative Signature: Mis Illians Title: Dist. Supervisor Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure Method Image: Closure Method If different from approved plan, please explain. On-Site Closure Method Image: Closure Method	Approval Date: <u>8/14/08</u> OCD Permit Number: <u>Pl-00284</u> section K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method
OCD Representative Signature: Mis Illians Title: Dist. Supervisor Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure Method Image: Closure Method If different from approved plan, please explain. On-Site Closure Method Image: Closure Method	Approval Date: <u>B(14/08</u> <u>OCD Permit Number: <u>Pl-00284</u> section K of 19.15.17.13 NMAC <u>Closure Completion Date:</u> Alternative Closure Method wing items must be attached to the closure report. Please indicate, by a check</u>
OCD Representative Signature: Mis Illians Title: Divid: Aupervisor Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure Method H different from approved plan, please explain. If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following for the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results 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	Approval Date: <u>B(14/08</u> <u>OCD Permit Number: <u>Pl-00284</u> section K of 19.15.17.13 NMAC <u>Closure Completion Date:</u> Alternative Closure Method wing items must be attached to the closure report. Please indicate, by a check</u>
OCD Representative Signature: Mis Illians Title: Display Aupervisor Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure completion): Sub Closure Method: On-Site Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results 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: Deperator Closure Certification: Disposal Cover Certification:	
OCD Representative Signature: Mis Illicanus Title: Display Augusta Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure Method If different from approved plan, please explain. If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this comparison	Approval Date: <u>B(14/08</u> <u>Pl-00284</u> <u>section K of 19.15.17.13 NMAC Closure Completion Date:</u> Alternative Closure Method wing items must be attached to the closure report. Please indicate, by a check <u>Longitude</u> <u>NAD: [1927]1983</u>
OCD Representative Signature: Mis Illicanus Title: Display Augusta Closure Report (required within 60 days of closure completion): Sub Closure Method: On-Site Closure Method H different from approved plan, please explain. If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the follow Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 Disposal Facility that the information and attachments submitted with this closure complies with all applicable closure reported for the follow	

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CLOSED LOOP SYSTEM

Design Plan

Equipment list

2-250 BBL tanks to hold fluid2-CRI Bins with track system2-500 BBL frac tanks for fresh water2-500 BBL frac tanks for brine water

Operation and Maintenance

Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed Any leak in system will be repaired and/or contained immediately OCD notified within 48 hours Remediation process started

Closure Plan

During drilling operations all liquids, drilling fluids and cuttings Will be hauled off via CRI (Controlled Recovery Incorporated Permit R-9166).

Completion

1-Steel tank for flowback1-Steel tank for cleanoutFluids Disposed by CRI Permit R-9166Solids Disposed at CRI

ATTACHMENT B Closed-Loop Inspection

CDH



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

LINER INTEGRITY INSPECTION

Lea Federal Unit TR 29 API# 30-025-39077 Lea County, New Mexico Section 24, Township 20 South, Range 34 East GPS Coordinates: 32.5622864, -103.5159988

Prepared For

Avant Natural Resources 1515 Wynkoop Street Suite #700 Denver, Colorado 80202

Prepared By

CDH Consulting, LLC Thornton, Colorado

Closed Loop Inspections Client Name: Avant Natural Resources Location: Lea Federal Unit TR 29 Time on location 2.20PM time Off 2:29 PM Inspector Name: Chris Abeyta Temperature 82 Wind 21 MPH Humidity:8 Inspection type: Closed Loop Inspection Date 2121 12024 truck # 102 Tools used Note 10+ (Samsung) Pictures No location Sign on site Notes: No apparent Signs of Stains | Spills Company Inspecting: CDH Consulting Note Has 3 Well Hads with Flore Stack Installed but not lit while I was on site Soil Sumple: No Signs of Stains/Spills

Closed Loop Inspection Avant Natural Resources Lea Federal Unit TR 29 32.5622864, -103.5159988 Lea County, New Mexico



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



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



Closed Loop Inspection Avant Natural Resources Lea Federal Unit TR 29 32.5622864, -103.5159988 Lea County, New Mexico



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



Closed Loop Inspection Avant Natural Resources Lea Federal Unit TR 29 32.5622864, -103.5159988 Lea County, New Mexico

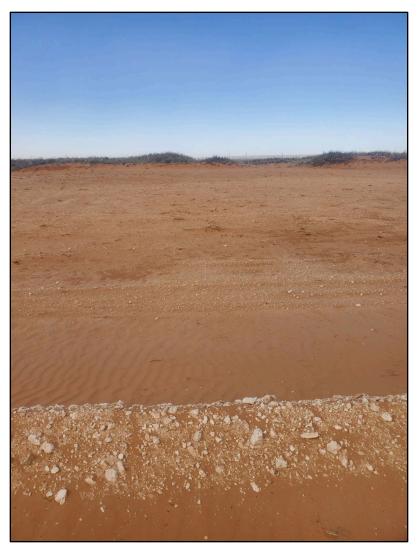


Photo 5: View north of closed-loop tank location, no staining observed



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

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

Operator: 0	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	355416
4	Action Type:
	[C-144] Temporary Pit Plan (C-144T)
CONDITIONS	

Created By	Condition	Condition Date
joseph.kennedy	None	6/18/2024

CONDITIONS

Action 355416