1301-W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

## Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

## Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit ☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per 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 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: Eagle Rock Operating Company, LLC OGRID #: 25978
Address: PO Box 1311 Midland, TX 79702
Facility or well name. Berry Hobbs unit 17#1
API Number: 30-025-36657 OCD Permit Number: 1 - 0 12 10 10
U/L or Qtr/Qtr
Center of Proposed Design: Latitude         32.921688857 °         Longitude         -103.92168886°         NAD:         □1927 ⋈ 1983
Surface Owner:  Federal  State  Tribal Trust or Indian Allotment
2,
☐ Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: ☑ Drilling ☐ Workover
Permanent Emergency Cavitation P&A
☑ Lined       ☐ Unlined Liner type: Thickness       20       mil       ☑ LLDPE       ☐ PVC       ☐ Other
⊠ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume:bbl Dimensions: L_150_ x W_150_ x D_30
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
□ Drying Pad □ Above Ground Steel Tanks □ Haul-off Bins □ Other
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams:  Welded Factory Other
4.
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: Thicknessmil
5.  Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

no communication

Chain link, six feet in height, two straints of barbed wire at top ( <i>Requirea y tocatea within 1000 feet of a permanent residence</i> , school, institution or church)  ■ Four foot height, four strands of barbed wire evenly spaced between one and four feet  ■ Alternate. Please specify	nospitai,		
7.  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)			
8. 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			
9.  Administrative Approvals 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:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for		
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	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		
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	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		

Hydroged Siting Cr Design P Operating Closure F and 19.15.17.13	logic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC logic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC logic Data (Temporary and Emergency Pits) - based upon the requirements of 19.15.17.10 NMAC logic Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC logic
4	
Instructions:  attached.  Geologic Siting Cl Design F Closure and 19.15.17.13	
	Approved Design (attach copy of design) API Number:
☐ Previously	Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
above ground s	eel tanks or haul-off bins and propose to implement waste removal for closure)
13.	
Permanent Pit Instructions: attached.  Hydroge Siting C. Climatol Dike Pro Leak De Liner Sp Quality Operatin Freeboan Nuisance Emergen Monitori Erosion	Permit Application Checklist: Subsection B of 19.15.17.9 NMAC ach of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are alogic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC teria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC gical Factors Assessment Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ection and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ontrol/Quality Assurance Construction and Installation Plan and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan waste Stream Characterization and Inspection Plan ontrol Plan lan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Instructions: I	re: 19.15.17.13 NMAC  lease complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  In a workover
	☐ 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 consideration)
closure plan. I Protocol. Confirm Disposal Soil Bac	on and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the lease indicate, by a check mark in the box, that the documents are attached.  and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC tion Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) fill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC tion Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC matter Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

facilities are required.		
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name:	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities  Yes (If yes, please provide the information below)  No	s occur on or in areas that will not be used for future services.	vice and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Site Reclamati	iate requirements of Subsection H of 19.15.17.13 NMA ion I of 19.15.17.13 NMAC	С
17.  Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMA  Instructions: Each siting criteria requires a demonstration of compliance in a  provided below. Requests regarding changes to certain siting criteria may req  considered an exception which must be submitted to the Santa Fe Environmen  demonstrations of equivalency are required. Please refer to 19.15.17.10 NMA	the closure plan. Recommendations of acceptable sout uire administrative approval from the appropriate dist intal Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; I	Data obtained from nearby wells	Yes No
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; I	Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; I	Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or chu - Visual inspection (certification) of the proposed site; Aerial photo; Sate		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that watering purposes, or within 1000 horizontal feet of any other fresh water well of NM Office of the State Engineer - iWATERS database; Visual inspection	or spring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh wadopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approximation		☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Vi	isual 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-Min	ning and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geol Society; Topographic map</li> </ul>	ogy & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements. Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a dryin Protocols and Procedures - based upon the appropriate requirements of 19 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements. Waste Material Sampling Plan - based upon the appropriate requirements. Disposal Facility Name and Permit Number (for liquids, drilling fluids an Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection.	requirements of 19.15.17.10 NMAC s of Subsection F of 19.15.17.13 NMAC e appropriate requirements of 19.15.17.11 NMAC g pad) - based upon the appropriate requirements of 19. D.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC d drill cuttings or in case on-site closure standards cannot the foliation of 19.15.17.13 NMAC	15.17.11 NMAC

Name (Print): Hollie Camb Title: Reservoir Engineer			
Signature:			
e-mail address: h. lamb @ Eagle Rock Energy com Telephone: 432 688-4286			
DCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)			
OCD Representative Signature: Serffly Laking Approval Date: 11/12/09			
Title: ENVIRON MENTAL KNOWNEE OCD Permit Number: P1-01266			
21.  Closure Report (required within 60 days of closure completion): Subsection K of 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: 11/9/09			
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.			
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:			
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.			
Disposal Facility Name: Disposal Facility Permit Number:			
Disposal Facility Name: Disposal Facility Permit Number:			
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below) No			
Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique			
24. Closure Danort Attachment Charlists Instructions: Each of the following items must be attached to the closure report. Please indicate by a check			
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) 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: \[ \begin{align*} 1927 \bigcap 1983 \\ \end{align*}			
Operator Closure Certification:  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): Hollie Lamb Title: Reservoir Engineer			
Name (Print):			
e-mail address: h-lamb @ Eagle Rock Evergy. com Telephone: 432-688-4286			