District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

For temporary pits, closed-loop systems, and 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

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

Santa Fe, NM 87505

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 ons: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative

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 theoperator 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. Range Operating New Mexico, Inc OGRID# 227588 Address 100 Throckmorton Street, Fort Worth, TX 76102 Facility or well name Federal 1-17 #3 API Number: 30-025-38550 / OCD Permit Number: P1-0012D Section 17 Township 228 Range 37E County. Lea U/L or Otr/Otr Center of Proposed Design: Latitude 32.389005°N Longitude 103.185687°W NAD X 1927 1983 Surface Owner, X Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F or G of 19.15 17 11 NMAC X Closed-loop System: Subsection II of 19.15.17.11 NMAC Temporary: X Drilling Workover ☐ Drying Pad X Tanks X Haul-off Bins ☐ Other ☐ Permanent ☐ Emergency ☐ Cavitation 🕅 Steel Pit ☐ Lined ☐ Unlined Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Liner type: Thickness mil LLDPE HDPE PVC Other ____ String-Reinforced Seams: Welded Factory Other Seams: Welded Factory Other Volume. ____bbl Dimensions: L____x W___x D__ Dimensions: Length x W1dth 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 harbed wire evenly spaced between one and Tank Construction material: 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: Thickness mil 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 19.15.17 NMAC for guidance. of approval. 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 Bureau 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	☐ 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	
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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. Instructions: Each of the following items indicate. Please indicate. Please indicate. Please indicate. Please indicate. Plea		
instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doctached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure), based upon the conversity required to the state of the following items must be attached to the application.	10 15 17 0	
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		
[X] Previously Approved Design (attach copy of design) API Number <u>30-025-38826</u>		

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 is attached.	
anachea.	he documents 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 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 Subsection C of 10.15.17.0 NMAC and 10.15.17.10 NMAC.	
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	- V
Type: X Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank X Closed-loop System	
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)	Alternative
☐ In-place Burial ☐ On-site Trench Burial	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau fo Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	r consideration)
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 fro 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
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	☐ Ycs ☐ 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). 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 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 Burcau of Geology & Mineral Resources; USGS; NM Geological Society, Topographic map 	Yes No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

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closure plan. Please indicate, by a check mark in the box, the	
tosure plan. Fleuse indicate, by a check mark in the box. the	19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the
Protocols and Procedures - based upon the appropriate re	cutifrements of 19 15 17 13 NMAC
Continuation Sampling Plan (if applicable) - based upon Disposal Facility Name and Permit Number (for liquids,	the appropriate requirements of Subsection F of 19 15 17.13 NMAC
Soil Backfill and Cover Design Specifications - based up	bon the appropriate requirements of Subsection H of 10.15.17.13 NIMAC
Like-vegetation Plan - based upon the appropriate requirem	ments of Subsection Lof 19 15 17 13 NMAC
Site Reclamation Plan - based upon the appropriate requi	
Waste Removal Closure For Closed-loop Systems That Utili	ize Haul-off Bins Only: (19.15.17.13 D NMAC) Instructions: Please indentify the facility
or facilities for the disposal of liquids, ariting failes and ariti	cultings.
Disposal Facility Name: Sundance Disposal	Disposal Facility Permit Number: <u>NM-01-0003</u> uctions: Each of the following items must be attached to the closure plan. Please indicate
On-Site Closure Plan Unecklist: (19.15 17.13 NMAC) Instru	actions: 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	
Li Front of Surface Owner Notice - based upon the appropri	late requirements of Subsection F of 19 15 17 13 NMAC
Li Construction and Design of Burnal Trench (if applicable)) based upon the appropriate requirements of 10.15.17.11 NAVAC
Trotocols and Procedures - based upon the appropriate re-	guirements of 19.15.17.13 NMAC
Waste Material Sampling Plan - based upon the appropris	the appropriate requirements of Subsection F of 19.15.17 13 NMAC
Li Disposal Facility Name and Permit Number (for haulds, or	drilling fluids and drill cultings or in case on-site closure standards comest by a transfer
— Con Core resign vased upon the appropriate requirem	ients at Subsection H of 19.15.17.13 NIMAC
Re-vegetation Plan - based upon the appropriate requirem	nents of Subsection I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requir	rements of Subsection G of 19 15.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this applica	ation is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Linda L. Brown	Title. Regulatory Analyst
	- V National of the second of
Signature (Nida Disum)	Date: July 9, 2008
e-mail address: <u>lbrown@rangeresources.com</u>	Telephone:(817) 869-4145
OCD Approval: Permit Application (including closure plan	
	1) L Closure Plan (only)
OCD Representative Signature:	Approval Date: 7/15/08
OCD Representative Signature: Title:	Approval Date: 7/5/08 OCD Permit Number: P1- DD 120
OCD Representative Signature:	Approval Date: 7/5/08 OCD Permit Number: P1- DD 120 on): Subsection K of 19.15.17.13 NMAC
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion) Closure Method:	Approval Date: 7/5/58 OCD Permit Number: P1- DD 120 on): Subsection K of 19.15.17.13 NMAC Closure Completion Date:
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Design/Operating Plan: Closed Loop System

A closed loop system will be used to drill the Federal 1-17 #3. Below is a schematic of the rig footprint, which includes the closed loop system. During drilling operations, all fluid circulated out of the hole will first come across a primary shaker. The primary shaker will remove the bulk of the solids from the fluid. The solid waste will pass over the shaker screens into the roll off bin. The fluid will fall through the shaker screen into the first compartment of the steel pit. The fluid then is sucked out of the steel pit and circulated through a 16 cone mud cleaner system which consists of desanders and desilters. The desanders and desilters work to remove finer solids from the fluid. The solid waste will be dumped into the roll off bin while the fluids will be dumped into the second compartment of the steel pit. The fluid is then sucked from the steel pit and circulated through a centrifugal pump. This will remove all the remaining solids in the fluid. The solid waste will be dumped into the roll of bin while the fluid is dumped into the third compartment of the steel pit. The roll off bins will be changed out once they reach 80% capacity. This will be done to ensure that no waste is spilt on location when the bins are lifted onto the hauling trucks. In the event that the roll off bins become full too fast for removal, a frac tank will be available to flow fluids into.

During drilling operations, all liquids, fluids, and cuttings will be hauled offsite to Sundance disposal. (Permit #NM-01-0003) No closure will be necessary on the well site. CRI will be our back-up disposal site located in Hobbs, NM (Permit #R9166).

After drilling operations, a five point sample will be taken before and after operations are completed to verify that the ground was not contaminated.

