State of New Mexico District I 1625 N. French Dr., Hobbs, NM 88 Minerals and Natural Resources District II Department 1301 W Grand Avenue, Artesia, NM 88210 District III Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 1 8 2008 1220 South St. Francis Dr.

1220 S. St Francis Dr , Santa Re

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.

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

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

Please be adviced that conroval 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 com	ply with any other applicable governmental authority's rules, regulations or ordinances.			
Operator: Range Operating New Mexico, Inc OG	RID #: <u>227588</u>			
Address: 100 Throckmorton Street, Fort Worth, TX 76102				
Facility or well name: Christmas 28 #4				
API Number: 30-925-34049 OCD Permit Number:	P1-00199			
U/L or Qtr/Qtr <u>C</u> Section <u>28</u> Township <u>22S</u>	Range 37E County: Lea			
Center of Proposed Design: Latitude 32.368073°N Longitude 103.170607°W NAD: X 1927 1983				
Surface Owner: Federal XState Private Tribal Trust or Indian Allotment				
Pit: Subsection F or G of 19.15.17.11 NMAC X Closed-loop System: Subsection H 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: Thicknessmil			
Liner type: Thicknessmul	Other			
Other String-Reinforced	Seams: Welded Factory Other			
Seams: Welded Factory Other	Volume:bblyd ³			
Volume:bbl	Dimensions: Lengthx Width			
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC			
Volume:bbl				
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: Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 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.			

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				
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				
 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			
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 19.15.17.12 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 Previously Approved Design (attach copy of design) API Number: or Permit Number:				
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 requirements of Subsection C of 19.15.17.19 NMAC and 19.15.17.13 NMAC				
X Previously Approved Design (attach copy of design) API Number: 30-025-38826	A CHOO			

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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 datached.	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 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 19.15.17.9 NMAC and 19.15.17.13 NMAC	TOPS OC
Proposed Closure: 19.15.17.13 NMAC	
Type: X Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank 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) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for co	
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). - 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 Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No

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 F 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 I of 19.15.17.13 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC			
Waste Removal Closure For Closed-loop Systems That Utilize 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.			
Disposal Facility Name: Sundance Disposal Disposal Facility Permit Number: NM-01-0003			
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 F of 19.15.17.13 NMAC			
Construction and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC			
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC			
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): Linda L. Brown Title: Regulatory Analyst			
Signature: Date: 7/17/2008			
e-mail address: <u>lbrown@rangeresources.com</u> Telephone: <u>(817) 869-4145</u> .			
OCD Approval: Permit Application (including closure plan) Closure Plan (only)			
OCD Representative Signature: Approval Date: Approval Date:			
A: 20			
Title: OCD Permit Number: PI-DD99			
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC			
Closure Completion Date:			
Closure Method:			
Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. Closed Loop			
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			
Proof of Deed Notice (if applicable)			
☐ Plot Plan ☑ Confirmation Sampling Analytical Results			
☐ Waste Material Sampling Analytical Results ☐ Ull 1 8 2008			
Disposal Facility Name and Permit Number Sundance Disposal - Permit # NM-01-003			
Soil Backfilling and Cover Installation Representation Application Potes and Specifica To Visions			
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)			
On-site Closure Location: Latitude Longitude NAD: \[\sqrt{1927} \sqrt{1983}			
Operator Closure Certification:			
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and			
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.			
Title: Sr. Reg. Sp.			
Title; Or. Ney. Op.			
Signature: Date 3-17-2009			
Signature: Date 3-17-2009 e-mail address: phale@rangeresources.com Telephone: 817-869-4216			



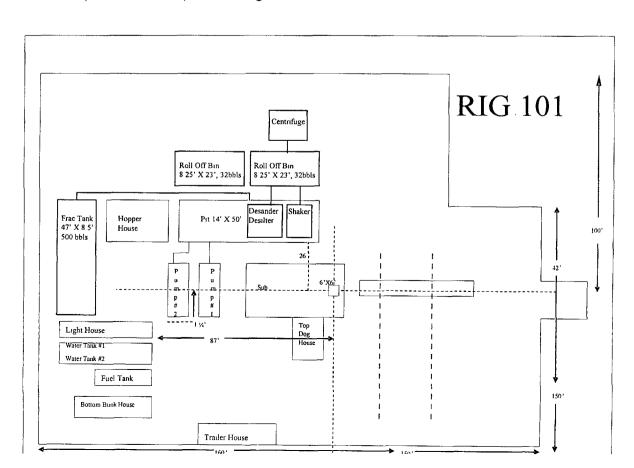
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Design/Operating Plan: Closed Loop System

A closed loop system will be used to drill the Eva Christmas 28 #4. Belo 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.



Work Order: 8120818 Christmas 28 #4

Page Number: 1 of 2 Eunice, NM

Report Date: December 10, 2008

Work Order: 8120818

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Summary Report

Chris Garcia

Range Operating-Eunice

P. O. Box 1570 **Eunice, NM 88231**

Project Location: Eunice, NM

Project Name:

Christmas 28 #4

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
181556	Drill Pad Background N side	soil	2008-12-04	14:00	2008-12-06
181557	Drill Pad Background S side	soil	2008-12-04	14:10	2008-12-06
181558	Drill Pad Background E side	soil	2008-12-04	14:20	2008-12-06
181559	Drill Pad Background W side	soil	2008-12-04	14:50	2008-12-06
181560	Wellhead area (Center)	soil	2008-12-04	15:10	2008-12-06
181561	Background Comps. N and E	soil	2008-12-04	15:40	2008-12-06
181562	Background Comps. S and W	soil	2008-12-04	15:20	2008-12-06

	TPH DRO	TPH GRO
,	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
181556 - Drill Pad Background N side	< 50.0	<1.00
181557 - Drill Pad Background S side	< 50.0	<1.00
181558 - Drill Pad Background E side	63.4	<1.00
181559 - Drill Pad Background W side	< 50.0	<1.00
181560 - Wellhead area (Center)	< 50.0	<1.00
181561 - Background Comps. N and E	< 50.0	<1.00
181562 - Background Comps. S and W	< 50.0	<1.00

Sample: 181556 - Drill Pad Background N side

Param	Flag	Result	Units	RL
Chloride		102	mg/Kg	3.25

Sample: 181557 - Drill Pad Background S side

Report Date: December 10, 2008		Work Order: 8120818 Christmas 28 #4		Page Number: 2 of 2 Eunice, NM	
Param	Flag	Result	Units	m RL	
Chloride		77.2	mg/Kg	3.25	
Sample: 181558 -	Drill Pad Backgroun	d E side			
Param	Flag	Result	Units	RL	
Chloride		79.1	mg/Kg	3.25	
Sample: 181559 -	Drill Pad Backgroun	d W side			
Param	Flag	Result	Units	RL	
Chloride		129	mg/Kg	3.25	
Sample: 181560 -	Wellhead area (Cent	er)			
Param	Flag	Result	Units	RL	
Chloride		148	mg/Kg	3.25	
Sample: 181561 -	Background Comps.	N and E			
Param	Flag	Result	Units	RL	
Chloride		65.6	mg/Kg	3.25	
Sample: 181562 -	Background Comps.	S and W			
Param	Flag	Result	Units	RL	
Chloride		<32.5	mg/Kg	3.25	