M Form C-144

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.

Santa Fe, NM 87505

June 16, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

JUN 18 2008

Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method CD-ARTESIA Closure 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 in	ndividual pit, closed-loop system, below-grade tank or alternative request			
	ability should operations result in pollution of surface water, ground water or the uply with any other applicable governmental authority's rules, regulations or ordinances			
	OGRID #: 013837			
Address: P.O. Box 960 Artesia, NM 88211-	.0960			
Facility or well name: Longhorns Federal #1				
API Number: 30.015.36259 OCD Permit Number: 37/05				
U/L or Otr/Otr F Section 6 Township 18	Range Z7E County: Eddy, NM			
Center of Proposed Design: Latitude Longitude NAD: \[\Begin{array}{c} 1983 \\ 1927 \Begin{array}{c} 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 1983 \\ 198				
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment				
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 🗖 Haul-off Bins ☐ Other			
☐ Permanent ☐ Emergency ☐ Cavitation	Lined Unlined			
Lined Unlined	Liner type: Thicknessmil			
Liner type: Thicknessmil	Other			
Other String-Reinforced	Seams: Welded Factory Other			
Seams: Welded Factory Other	Volume:bbiyd³			
Volume: bbl Dimensions: L x W x D	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	☐ 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. Thickness mil	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 of approval.	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 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 - tWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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. (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 ☐ NA
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	
attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.15 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.15 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 de attached. 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 appropriate requirements of 19.15.17.10 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 Previously Approved Design (attach copy of design) API Number:	19.15.17.15
The should be sign (anach coby or design) Arthumber:	

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 do	ocuments are		
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.15 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			
Proposed Closure: 19.15.17.13 NMAC			
Type: Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System	Alternative		
Proposed Closure Method: Waste Excavation and Removal 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 cor	nsideration)		
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 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 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 NMA	
closure plan. Please indicate, by a check mark in the box, that the documents	
☐ Protocols and Procedures - based upon the appropriate requirements of I☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate	9.15 17.13 NMAC
Sampling Plan (if applicable) - based upon the appropriate Disposal Facility Name and Permit Number (for liquids, drilling fluids at	
Soil Backfill and Cover Design Specifications - based upon the appropria	
Re-vegetation Plan - based upon the appropriate requirements of Subsect	
Site Reclamation Plan - based upon the appropriate requirements of Subs	
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bin	os Only: (19 15 17 13 D NMAC) Instructions: Plagsa indentify the facility
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	13.19.11.
Disposal Facility Name: Controlled Recovery Inc.	Disposal Facility Permit Number: R.9166
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	
by a check mark in the box, that the documents are attached.	ine jouoming tients must be unuched to the closure plan. I lease indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19.15.17.10 NMAC
Proof of Surface Owner Notice - based upon the appropriate requirement.	s 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	
Confirmation Sampling Plan (if applicable) - based upon the appropriate	
Waste Material Sampling Plan - based upon the appropriate requirements	
 Disposal Facility Name and Permit Number (for liquids, drilling fluids ar Soil Cover Design - based upon the appropriate requirements of Subsection 	
Re-vegetation Plan - based upon the appropriate requirements of Subsection	
Site Reclamation Plan - based upon the appropriate requirements of Subsection	
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accu	
Name (Print): Jerry W. Sherrell	Title: Production Clerk
Signature: Very W. Sherol	Date: 6-18-08
Signature: Yew W. Stevens	Date: 673 03
	- · · · (575) 7/0 1000
e-mail address: jerrys@mackenergycorp.com	
\	Telephone: (575) 748-1288
OCD Approval: Permit Application (including closure plan) Closure	Plan (only)
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Mack Energy Closed Loop System Design Plan

Equipment list,

- 2-414 Swaco Centrifuges
- 2-4 screen Mongoose shale shakers
- 2- 250 BBL tanks to hold fluid
- 2- CRI Bins with track system
- 2-500 BBL frac tanks for fresh water
- 2-500 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).