District I 1625 N. French Dr , Hobbs, NM 88240 District [I 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

M Form C-144 June 16, 2008

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

Proposed Alternative Method	Permit or Closure Plan Application JUN 19 2008			
Type of action: Type of action: Type of action: Closure of a pit, closed-loop of a pit, closed-loop	system, below-grade tank, or proposed alternative method ARTESIA 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 ply with any other applicable governmental authority's rules, regulations or ordinances			
Operator: Mack Energy Corporation	OGRID #- 013837			
Address: P.O. Box 960 Artesia, NM 88211-0960				
Facility or well name: Falcon State #2				
API Number: 30605-64009 OCD Permit Number: 36691				
U/L or Qtr/Qtr C Section 16 Township 14				
Center of Proposed Design: Latitude Longitude NAD: 1927 1983				
Surface Owner: Federal State 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: 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:bblyd³			
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: Thicknessmil	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 submitted to the Santa Fe Environmental Bureau office for consideration	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			
	appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe			

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 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	
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 dattached. 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 19.15.17.17 Situng 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 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.19 NMAC and 19.15.17.13 NMAC	ocuments are	
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 15 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 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC		
- Transas, Approved Seargh (and one object design) At transport.		

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 de	ocuments are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15 17 15 NMAC	
☐ 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 con	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.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
144 Office of the State Engineer 14711 Eres database South, 6666, But Southed Holl feel of Wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
William 200 feet of a particular of a superior and	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake	Yes No
(measured from the ordinary high-water mark).	
- 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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ 163 ☐ 140
Visual hispection (ceramenton) of the proposed site, Nertail photo, Satellite hings	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No
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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
No. 1. 500 C	
Within 500 feet of a wetland.	Yes No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.	□ Vac □ No
- 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	☐ Yes ☐ No
Society; Topographic map	
Within a 100-year floodplain.	☐ Yes ☐ No
- FEMA map	1

Waste Excavation and Removal Closure Plan Checklist: (19.15.1		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				
Protocols and Procedures - based upon the appropriate required Confirmation Sampling Plan (if applicable) - based upon the a		Ε -Ε10 15 17 12 NB/A C		
Disposal Facility Name and Permit Number (for liquids, drilling)		HOR P OF 19 13.17 13 INVOAC		
Soil Backfill and Cover Design Specifications - based upon the		section 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 requirement	nts of Subsection G of 19 15.17 13	NMAC		
Waste Removal Closure For Closed-loop Systems That Utilize Ha	ul-off Bins Only: (19 15.17 13 E	NMAC) Instructions: Please indentify the facility		
or facilities for the disposal of liquids, drilling fluids and drill cuttin				
Disposal Facility Name: Controlled Recovery Inc.		ermit Number: R-9166		
On-Site Closure Plan Checklist: (19.15 17.13 NMAC) Instructions				
by a check mark in the box, that the documents are attached.	s, , , ,	, and the state of the cities of primary and a state of the cities of th		
Siting Criteria Compliance Demonstrations - based upon the ap				
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 requiren Confirmation Sampling Plan (if applicable) - based upon the ap		tion F of 10 15 17 12 NMAC		
Waste Material Sampling Plan - based upon the appropriate red				
Disposal Facility Name and Permit Number (for liquids, drillin				
Soil Cover Design - based upon the appropriate requirements o				
Re-vegetation Plan - based upon the appropriate requirements of				
Site Reclamation Plan - based upon the appropriate requiremen	ts 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	e best of my knowledge and belief.		
Name (Print): Jerry W. Sherrell	Title: Prod	luction Clerk		
		T 10 2000		
Signature: Jany W. Menol	Date:	June 19, 2008		
i de a muse d'anno a le anno a company a		(575) 7/0 1000		
e-mail address: jerrys@mackenergycorp.com				
	relephone:	(575) 748-1288		
		(373) 748-1288		
OCD Approval: Permit Application (including closure plan)				
OCD Approval: Permit Application (including closure plan)		Approval Date:		
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	Approval Date: 6/20/08		
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature Title:	Closure Plan (only)	Approval Date: 6		
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature Title: Signature Closure Report (required within 60 days of closure completion):	Closure Plan (only)	Approval Date: 6		
OCD Approval: Permit Application (including closure plan) OCD Representative Signature Title:	Closure Plan (only) Closure Plan (only) Permit Numb Subsection K of 19.15.17.13 NMA Closure Comp	Approval Date: 6		
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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).