District (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 8750

State of New Mexico Energy Minerals and Natural Resources Department

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



For temporary pits, closed-loop systems, and below-grade tanks, submut 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 20 2008 OCD-ARTESIA 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 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 Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960 Address: Facility or well name: Brantley Federal #2 API Number: 30-015-36050 OCD Permit Number: 36781 U/L or Qtr/Qtr A Section 7 Township 17S Range 30E County Eddy NM 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 ☐ Drying Pad ☐ Tanks ☒️ Haul-off Bins ☐ Other _____ Temporary: Drilling Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ Lined ☐ Unlined Liner type: Thickness mil LLDPE HDPE PVC ☐ Lined ☐ Unlined Other ☐ String-Reinforced Seams: Welded Factory Other Volume: ________bbl ______yd³ Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D Dimensions: Length x Width Below-grade tank: Subsection I of 19 15.17.11 NMAC Fencing: Subsection D of 19.15.17.11 NMAC 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 maternal: four feet ☐ Secondary containment with leak detection Netting: Subsection E of 19.15 17 11 NMAC ☐ Screen ☐ Netting ☐ Other___ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner ☐ Monthly inspections Visible sidewalls only Signs: Subsection C of 19.15 17.11 NMAC 12'x24', 2' lettering, providing Operator's name, site location, and Other _____ 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.

String 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 ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent puts) - 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 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 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		
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 diattached. 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 MAC 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	£ 19.15 17 15	
Previously Approved Design (attach copy of design) API Number:		

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	cuments 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 con	sideration)
	sider actorry
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.	1
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - (WATERS 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).	☐ Yes ☐ No
- 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. - 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	☐ Yes ☐ No
Society; Topographic map	
Within a 100-year floodplain FEMA map	Yes No

Waste Excavation and Removal Closure Plan Checklist: (19/15/17.13 NMAC) Instru	ctions: 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 attac	
Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requireme Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cut	
Soil Backfill and Cover Design Specifications - based upon the appropriate require	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of	
Was Daniel Claus En Claus Lon Surroug That Utilize Wast of Dire Only	10 15 17 12 O ND (A C) In an agency Diversion of the free line
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only: (or facilities for the disposal of liquids, drilling fluids and drill cuttings.	19 13.17 13 D NIVIAC) Instructions: Please indentify the facility
	D.O. 166
Disposal Facility Name Controlled Recovery Inc. Dispos	
On-Site Closure Plan Checklist: (19.15 17.13 NMAC) Instructions: Each of the followay a check mark in the box, that the documents are attached.	ving items must be attached to the closure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirement	are of 19 15 17 10 NM 4 C
Proof of Surface Owner Notice - based upon the appropriate requirements of Subse	
Construction and Design of Burial Trench (if applicable) based upon the appropriate	
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement	
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cut	
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G o	1 19.13.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and c	omplete to the best of my knowledge and belief.
Name (Print): Jerry W. Sherrell T	Draduction Clark
Name (Print): Jerry W. Sherrell T	de: Production Clerk
a Chi de	Tuno 10 2000
Signature: Juny W. Herreld	Date: June 19, 2008
, , , , , , , , , , , , , , , , , , ,	(575) 7/0 1000
e-mail address: jerrys@mackenergycorp.com Te	
	lephone: (575) 748-1288
OCD Approval: Permit Application (including closure plan) Closure Plan (only)	. ()
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Representative Signature:	Approval Date: 6 2006
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Representative Signature:	. ()
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OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection K of 19.1 Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Closure Method	Approval Date: 6 2066 5 17.13 NMAC osure Completion Date:
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OCD Appraval: Permit Application (including closure plan) Closure Plan (only) OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection K of 19.1 Closure Wethod: Waste Excavation and Removal On-Site Closure Method Alternative Closure If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items must 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 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 Certification: I hereby certify that the information and attachments submitted with this closure report is a	Approval Date: 6 208 58 5 17.13 NMAC osure Completion Date:
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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).