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

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



JUN 20 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

X 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 ___ OGRID #:____ P.O. Box 960 Artesia, NM 88211-0960 Address: Facility or well name: North Pole Federal #2 30-015-36080 OCD Permit Number: 36994 API Number: U/L or Qtr/Qtr L Section 15 Township 16S Range 28E County: Eddy, NM _____Longitude _______ NAD: 🗌 1927 🔲 1983 Center of Proposed Design: Latitude ____ Surface Owner: XX Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F or G 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 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 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: 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 Signs: Subsection C of 19 15.17.11 NMAC ☐ Visible sidewalls only 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: Justifications and/or demonstrations of equivalency are required. Please refer to Submittal of an exception request is required. Exceptions must be 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 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	☐ 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 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 19.15.17.11 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		
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 distanched. 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 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC	f 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 description is the following items must be attached to the application.	ocuments are	
attached. Hvdrogeologic 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		
☐ Monttoring and Inspection Plan ☐ Eroston 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 Ptt Below-grade Tank Closed-loop System C	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 co	isideration)	
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.		
Constitution in loss than \$0 fort halosy the hottom of the housing toward		
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	
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 State Secretion and Alexander and Secretion an		
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		
- 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		
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		
When it are an included a consisting defined and the second and th		
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.	☐ Yes☐ No	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		
written continuation of vertication from the maintenancy, written approval obtained from the maintenancy	'	
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.	☐ Yes ☐ No	
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division		
Vishin an unstable area		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		
Society; Topographic map	☐ Yes☐ No	
Society, ropograpine map		
Within a 100-year floodplain.	☐ Yes ☐ No	
- FEMA map		

	C) 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 an	d dnil 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			
Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Site Reclama	off for 19.13.17 13 NMAC ection G of 19.15.17,13 NMAC		
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bin.			
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	s Only: (19.13.17 13 D NMAC) Instructions: Please indentify the facility		
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.			
Siting Criteria Compliance Demonstrations - based upon the appropriate r			
Proof of Surface Owner Notice - based upon the appropriate requirements Construction and Design of Burial Trench (if applicable) based upon the			
Protocols and Procedures - based upon the appropriate requirements of 19			
Confirmation Sampling Plan (if applicable) - based upon the appropriate r	requirements of Subsection F of 19.15.17.13 NMAC		
Waste Material Sampling Plan - based upon the appropriate requirements			
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and 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 Subse			
Operator Application Certification:			
I hereby certify that the information submitted with this application is true, accur	rate and complete to the best of my knowledge and belief.		
Name (Pnnt): Jerry W. Sherrell	Tide: Production Clerk		
Signature: Jerry W. Sherrell	Date: June 19, 2008		
e-mail address: jerrys@mackenergycorp.com	Telephone: (575) 748-1288		
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OCD Approval: Permit Application (including closure Man) . Cosure P	lan (only)		
OCD Approval: Permit Application (including closure plan) Closure P	and the second of the second o		
OCD Approval: Permit Application (including closure plant) Chapter P	Approval Date: 6 20 00		
OCD Representative Signature:	Approval Date: 6 20 00		
OCD Representative Signature: Title:	Approval Date: 6 20 00 OCD Permit Number: 00013		
OCD Representative Signature:	Approval Date: 6 20 00 OCD Permit Number: 000 13 K of 19.15.17.13 NMAC		
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection	Approval Date: 6 20 00 OCD Permit Number: 00013		
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OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection Closure Method: Waste Excavation and Removal On-Site Closure Method Altern	Approval Date: 6 20 06 OCD Permit Number: 5 20 13 K of 19.15.17.13 NMAC Closure Completion Date:		
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OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following is 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 Location: Latitude Longit Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure	Approval Date: 6 20 00 OCD Permit Number: 6 20 00 K of 19.15.17.13 NMAC Closure 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).