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 87505

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, submit to the appropriate NMOCD District Office. For permanent pits and the santa Fe Environment pits and Fe Environment provide a copy to the appropriate NACCOD District Office.

Pit. Closed-Loop System. Below-Grade Tank. or Proposed Alternative Method Permit or Closure Plan Applica 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 I environment. Nor does approval relieve the operator of its responsibility to con-	ability should operations result in pollution of surface water, ground water or the apply 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: Snapper State #16	
	OCD Permut Number: 34552
U/L or Qtr/Qtr Section14 Township1	6S Range 33E County: Lea, NM
Center of Proposed Design: Latitude	Longitude
Surface Owner: Federal X 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 XX) 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: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	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: Thicknessmul	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

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-	
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	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
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 NMA Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docum 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 N 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 19.15.17.19 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19 15.17.13 NMAC	mac
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 docum attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.1 Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17 10 NM. 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 Previously Approved Design (attach copy of design) API Number	5 17 15

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 Sting 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	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.	
Militory of Samurica	
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).	☐ 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 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 docum	nents are attached.
Protocols and Procedures - based upon the appropriate requirements Confirmation Sampling Plan (if applicable) - based upon the approp	of 19.13.17 13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids)	ds and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appr	opriate requirements of Subsection H of 19 15 17 13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Sub	section Lot 19 15 17 13 NMAC
-	
Waste Removal Closure For Closed-loop Systems That Utilize Haut-of	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.	D 17 17 D 11 D 0166
	Disposal Facility Permit Number: R-9166
On-Site Closure Plan Checklist: (19.15 1/15 NMAC) Instructions: Ea by a check mark in the box, that the documents are attached.	ch of the following items must be attached to the closure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropr	iate requirements of 19 15 17 10 NMAC
Proof of Surface Owner Notice - based upon the appropriate requirer	nents of Subsection F of 19 15.17.13 NMAC
Construction and Design of Burial Trench (if applicable) based upor	
Protocols and Procedures - based upon the appropriate requirements Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements	of 19.15 17 15 NMAC
Waste Material Sampling Plan - based upon the appropriate requirem	ents of Subsection F of 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluid	Is and drill cuttings or in case on-site closure standards cannot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subs	
Re-vegetation Plan - based upon the appropriate requirements of Sub	
	dosection d of 19.13.17.13 MMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true,	
Name (Print): Jerry W. Sherrell	Tide: Production Clerk
Signature: Carry W. Sherrall	Dare: June 19, 2008
Signature: Jany W. Stunder	Date: June 19, 2008
e-mail address: jerrys@mackenergycorp.com	Telephone: (575) 748-1288
e-mail address: jerrys@mackenergycorp.com	relegatione: (3/3) /40-1200
OCD Approval: Permit Application (including closure plan) Clos	
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OCD Approval: Permit Application (including closure plan) Clos OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subse Closure Method: On-Site Closure Method A If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the follows 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)	Approval 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).