Form C-144

JUN 202008

1625 N French Dr , Hobbs, NM 88240 1301 W Grand Avenue, Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410 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 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 DARTESIA 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 \_\_ OGRID #: Operator: Mack Energy Corporation 013837 P.O. Box 960 Artesia, NM 88211-0960 Address: Sooners State #1 Facility or well name: API Number: 30-015-36067 OCD Permit Number: \_\_\_\_\_36962 U/L or Qtr/Qtr J Section 32 Township 17S Range 27E County: Eddy, NM Center of Proposed Design: Latitude \_\_\_\_\_\_Longitude \_\_\_\_\_\_\_ NAD: 🗌 1927 🔲 1983 Surface Owner: Federal XX 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 Liner type: Thickness mil LLDPE HDPE PVC ☐ Lined ☐ Unlined ☐ Other \_\_\_\_\_ Other \_\_\_\_\_ String-Reinforced Seams: Welded Factory Other Volume: bbl vd<sup>3</sup> 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 ☐ 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 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.

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 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		
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	
<ul> <li>□ Leak Detection Design - based upon the appropriate requirements of 19 15.17 11 NMAC</li> <li>□ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15 17 11 NMAC</li> <li>□ Quality Control/Quality Assurance Construction and Installation Plan</li> </ul>	
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	
<ul> <li>Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> </ul>	
☐ Monitoring 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	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)
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.	
MINAC JOI guitante	
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
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.	☐ Yes ☐ No

Waste Excavation and Removal Closure Plan Check	klist: (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		
Protocols and Procedures - based upon the appropriate of the procedure of the proced		
	sed upon the appropriate requirements of Subsection F of 19 15.17 13 NMAC	
Disposal Facility Name and Permit Number (for	based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC	
	requirements of Subsection I of 19 15.17 13 NMAC	
	ate requirements of Subsection G of 19.15.17.13 NMAC	
Waste Removal Closure For Closed-loop Systems 1h	hat Utilize Haul-off Bins Only: (19.15.17.13 D NMAC) Instructions: Please indentify	the facility
or facilities for the disposal of liquids, drilling fluids an		
	ecovery Inc. Disposal Facility Permit Number R-9166	
	C) Instructions: Each of the following items must be attached to the closure plan. Pleas	se indicate,
by a check mark in the box, that the documents are atte		
	ed upon the appropriate requirements of 19.15.17 10 NMAC appropriate requirements of Subsection F of 19.15.17 13 NMAC	ļ
	appropriate requirements of Subsection F of 19.13.17 13 NMAC	į.
Protocols and Procedures - based upon the approp		
	ed upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the ar	appropriate requirements of Subsection F of 19 15.17.13 NMAC	
Disposal Facility Name and Permit Number (for li	liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achi	eved)
	equirements of Subsection H of 19.15.17.13 NMAC	
	requirements of Subsection I of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriat	tte requirements of Subsection G of 19.15.17.13 NMAC	
Operator Application Certification:		
	application is true, accurate and complete to the best of my knowledge and belief.	
r rr at 11	Title: Production Clerk	
	Title: Troduction Greek	
Signature: Jeny W. Sherrel	Date: June 19, 2008	
Signature: Jerry W. Merrel	Date: June 19, 2008	
e-mail address: jerrys@mackenergycon	(575) 7/0 1000	
e-mail address: jerrys@mackenergycon		
OCD Approval: Permit Application (including clos	sure plan)  Closure Plan (only)	
OCD Approval: Permit Application (including clos OCD Representative Signature:	sure plan) Closure Plan (only)  Approval Date: 6/20/08	
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OCD Approval: Permit Application (including closs OCD Representative Signature: Closure Report (required within 60 days of closure complete Maste Excavation and Removal On-Site Closure If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: 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 Oisposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Tech On-site Closure Location: Latitude  Operator Closure Certification:  I hereby certify that the information and attachments substability.  Name (Print)	Approval Date:	e and

## 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).