1625 N French Dr., Hobbs, NM 88240	
Proposed Alternative Method Type of action: Image: Permit of a pit, closed-loop Image: Closure of a pit, closed-loop Image: Closure of a pit, closed-loop Instructions: Please submit one application (Form C-144) per provided that approval of this request does not relieve the operator of I 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 com Operator: Mack Energy Corporation Address: P.O. Box 960 Artesia, NM 88211- Facility or well name: Snapper State #13 API Number: 30-025-37808 3 84-95 U/L or Qtr/Qtr B Section 14	OCD Permut Number: 34552
Surface Owner: Federal XX State Private Tribal Trust or Indian Pit: Subsection F or G of 19.15.17.11 NMAC (Temporary: Drilling Workover Permanent Emergency Cavitation Lined Unlined Liner type: Thickness mil Other String-Reinforced	Allotment Allotment Orying Pad Tanks XA Haul-off Bins Lined Unlined Liner type: Thickness Other Other Other Other Seams: Welded Factory
Seams: Welded Factory Other Volume: bbl Dimensions: Lx Wx D Below-grade tank: Subsection I of 19 15.17 11 NMAC Volume: bbl Type of fluid:	Volume:
 Secondary containment with reac detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	Screen Netting Other
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. 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.

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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 □ 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 □ 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 19.15.179	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 attached.	ocuments are	
 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 19.15.17.13 NMAC Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC 		
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	i	
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. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Critera Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 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	19 15.17 15 NMAC	
NMLAC Previously Approved Design (attach copy of design) API Number:		

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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 documents 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 		
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 co	reideration)	
Siting Criteria (regarding on-site closuré 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.		
a second state of the state of the borner of the borner to	□ Yes □ No	
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		
- NM Office of the State Eligneter - I WATERS database search, 0505, Data obtained from hearby wens		
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 - (WATERS database search; USGS, Data obtained from nearby wells	🗋 NA	
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 (certationito) 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		
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		
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		
Vieto an unatable area		
 Within an unstable area. Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USCS. NM Geological 	☐ Yes ☐ No	
 Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USCS, NM Geological Sociecy; Topographic map 		
sourcey, ropographic map		
Within a 100-year floodplain.	🗌 Yes 🗌 No	
- FEMAmap	- —	

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Waste Excavation and Removal Closure Plan Checkdist: (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 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 and drill 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17 13 NMAC
Waste Removal Closure For Closed-loop Systems That 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 and drill cuttings. 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 the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements 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 requirements of Subsection F 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, driling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I 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 requirements of Subsection I of 19.15.17.13 NMAC Dependence of Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Bis of Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttin
e-mail address: jerrys@mackenergycorp.com Telephone: (575) 748-1288
OCD Representative Signature:
Title: OCD Permit Number: P[-DOD1]
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain.
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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 Longitude NAD- []1927 [] 1983
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD- []1927 []1983 Operator Closure Certification:
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD- 1927 1983 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD- [1927] 1983 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD- 1927 1983 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Form C-144

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Oil Conservation Devision

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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).