District I 1625 N French Dr., Hobbs, NM 88240 District II 1501 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

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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 contract the same first superfirst the Santa Fe Environmental Superfirst superfirst

Fe, NM 87505	Santa Fe, NM 87505	provide a copy to the appropriate NMOCD District Office.		
			JUN 2 3 20	0,9
<u>Pit</u>	: Closed-Loop System, Below-Grade	Tank, or	LIANDO	$\sim$
Proposed A	. Closed-Loop System, Below-Grade Alternative Method Permit or Closure	Plan App	Iland BBB	
	mit of a nit closed-loop system below grade tank			

Type of action: Permit of a pit, closed-loop system, below-grade tank. or proposed alternative method PI-DODIZ

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 #: 013837				
Address: P.O. Box 960 Artesia, NM 88211-0960					
Facility or well name:         Snapper State #14           API Number:         30-025-28495         38496         OCD Permut Number:         34552					
API Number: 30-025-36495 38496 OCD Permut Number: 34552					
U/L or Qtr/Qtr A Section 14 Township 16S Range 33E County: Lea, 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					
Temporary: 🗌 Drilling 🗌 Workover	Drying Pad Tapks X Haul-off Bins Other				
Permanent Emergency Cavitation					
Lined Unlined	Liner type: Thicknessmıl				
Liner type Thickness mil	□ Other				
Other String-Reinforced	Seams: 🗌 Welded 🔲 Factory 🗌 Other				
Seams: 🗌 Welded 🗌 Factory 🗋 Other	Volume:bblyd <sup>3</sup>				
Volume:bbl Dimensions: L x W x D	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 Thicknessmil 🗌 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 submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to				
of approval.	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.				

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				
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>				
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>				
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>				
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>				
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			
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	📋 Yes 🗋 No			
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS, NM Geological Society; Topographic map</li> </ul>				
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	ocuments 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 19.15.17.13 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: 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 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 Situng 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 NMAC				
Previously Approved Design (attach copy of design) API Number:				

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D Die De Charletier, Subsection B of 10.15.17.0 NMA/			
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		
Permanent Pirs 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         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         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Reresonard Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Errosion Control Plan         Errosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC			
Type: 🗌 Drilling 🗌 Workover 🔲 Emergency 🗌 Cavitation 🔲 Permanent Pit 🔲 Below-grade Tank 🔲 Closed-loop System [			
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 consideration)			
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.			
<ul> <li>Ground water is less than 50 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ 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		
<ul> <li>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).</li> <li>Topographic map: Visual inspection (certification) of the proposed site</li> </ul>	🗌 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		
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No		
Withun 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		
Withun 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		

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	m and Removal Closure Plan Checklist: (19 15 17.13 NMAC) Instructions: Each of the following items must be attached to
closure plan. Ple	ease indicate, by a check mark in the box, that the documents are attached.
Protocols a	ind Procedures - based upon the appropriate requirements of 19.15.17 13 NMAC
	on Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17 13 NMAC
	actify Name and Permit Number (for liquids, drilling fluids and drill cuttings) III and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19/15/17/13 NMAC
	ion Plan - based upon the appropriate requirements of Subsection [ of 19 15 17 13 NMAC
	nation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC
	Closure For Closed-loop Systems That Unlize Haul-off Bins Only: (19 15.17 13 D NMAC) Instructions: Please indentify the e disposal of liquids, drilling fluids and drill cuttings.
	y Name <u>Controlled Recovery Inc.</u> Disposal Facility Permit Number <u>R-9166</u>
	Plan Checklist: (1915 17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please it
	in the box, that the documents are attached. The Compliance Demonstrations - based upon the appropriate requirements of 19151710 NMAC
	rface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15.17 13 NMAC
	n and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19 15.17 11 NMAC
	nd Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
	on Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
	enal Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.15 NMAC
	icility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achiev
	Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
	on Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
	ation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC
	ition Certification:
	at the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print).	Jerry W. Sherrell Tide: Production Clerk
	$7 \cdot 1 \in \Omega$
Signature 6	any W. Sherral Date: June 19, 2008
	V
e-mail address:	
e-mail address:	jerrys@mackenergycorp.com Telephone: (575) 748-1288
	jerrys@mackenergycorp.com Telephone: (575) 748-1288
	Permit Application (including closure plan)  Closure Plan (only)
OCD Approval:	Permit Application (including closure plan)  Closure Plan (only) tive Signature:
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OCD Approval: 1 OCD Representat Title: <u>Closure Report (r</u> <u>Closure Method</u> : Waste Excavat I I different from	Permit Application (including closure plan)  Closure Plan (only)  tive Signature:
OCD Approval: 1 OCD Representat Title:	Permit Application (including closure plan) Closure Plan (only) tive Signature: Approval Date: <u>0-124</u> <u>Mechanization</u> OCD Permit Number: <u>PL-DDD1</u> required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: tion and Removal On-Site Closure Method Alternative Closure Method m approved plan, please explain. ttachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a
OCD Approval: ( OCD Representat Title: Closure Report (r Closure Method: Waste Excavat If different from Closure Report A mark in the box, th	Permit Application (including closure plan) Closure Plan (only) tive Signature: Approval Date: <u>0-1-=2/a</u> <u>Mechanization</u> OCD Permit Number: <u>PL-DDD1</u> required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: tion and Removal On-Site Closure Method Alternative Closure Method m approved plan, please explain. <u>ttachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please indicate, by a that the documents are attached.
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OCD Approval: OCD Representat Title: Closure Report (r Closure Method: Waste Excavat If different from Closure Report A mark in the box, th Proof of Clo Proof of Clo Proof of Dea Plot Plan Confirmation Waste Mater Disposal Fac Soil Backfill Re-vegetatio	Permit Application (including closure plan) Closure Plan (only) tive Signature: Approval Date: <u>2-1-=-24</u> <u>OCD Permit Number: PL-DDD12</u> required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: <u>Closure Completion</u> tion and Removal On-Site Closure Method Alternative Closure Method m approved plan, please explain. <u>Itachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please indicate, by a hat the documents are attached. sure Notice ed Notice (if applicable) n Sampling Analytical Results ral Sampling Analytical Results rad Sampling Analytical R
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OCD Approval: OCD Representat Title: Closure Report (r Closure Report (r Waste Excavat If different from Closure Report A mark in the box, th Proof of Clos Proof of Dee Plot Plan Confirmation Waste Mater Disposal Fac Soil Backfill Re-vegetatio Site Reclama On-site Closure	Permit Application (including closure plan) Closure Plan (only) tive Signature:
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OCD Approval: OCD Representat Title: Closure Report (r Closure Report (r Waste Excavat If different fron Closure Report A mark in the box, th Proof of Clo Proof of Clo Proof of Dea Plot Plan Confirmation Waste Mater Disposal Fac Soil Backfill Re-vegetatio Site Reclama On-site Closure I hereby certify that belief. I also certify	Permit Application (including closure plan) Closure Plan (only) tive Signature:
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Form C-144	Form	C-1	<b>į.1</b>	
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Oil Conservation Division

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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

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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).