District I 1625 N. French Dr., Hobbs, NM 88240 District III

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.

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 Edvik in fine fial burgar of the fands provide a copy for the copy for the provide a copy for the provide a copy for the copy Santa Fe, NM 87505

Pit, Closed-Loop Syst	tem, Below-Grade Tank, or JUN 2 3 2009
Proposed Alternative Method	Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop s	system, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method
·	ndividual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of lie	ability should operations result in pollution of surface water, ground water or the
W. Caller Co. and Cal	ply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Mack Energy Corporation Address: P.O. Box 960 Artesia, NM 88211-	O960 OGRID #: 013837 P(-DISOO)
Facility or well name: Boyz Fee #2	
API Number: 30-025-38957	OCD Permit Number: 26605
U/L or Qtr/Qtr $\underline{\hspace{1cm} B}$ Section $\underline{\hspace{1cm} 30}$ Township $\underline{\hspace{1cm} 1}$	8S Range 37E County: Lea, NM —
Center of Proposed Design: Latitude	
Surface Owner: Federal 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 Daul-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: 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: Submittal of an exception request is required. Exceptions must be	Administrative Approvals and Exceptions: 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 ☐ 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 19.15.17.9 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:		
Treviously Approved Design (attach copy of design) Attriumper.		

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 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		
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		
Nuisance of Hazardous Cools, including 1125, Frevention France 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	7 Alternative	
Type. Dinning Workover Emergency Cavillation Fernancial III Below-grade Faile Closed toop system	_ / therman	
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 cor	nsideration)	
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.		
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). - 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 FEMA map	☐ Yes ☐ No	

Waste Excavation and Removal Closure Plan Checklist: (19 15.17.1	3 NMAC) Instructions: Each of the following items must be attached to th	e
closure plan. Please indicate, by a check mark in the box, that the doc Protocols and Procedures - based upon the appropriate requirement	uments are attached.	
Confirmation Sampling Plan (if applicable) - based upon the appr	opriate requirements of Subsection F of 19.15.17 13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling t	luids and drill cuttings)	
Soil Backfill and Cover Design Specifications - based upon the ap	propriate requirements of Subsection H 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- or fucilities for the disposal of liquids, drilling fluids and drill cuttings.	off Bins Only: (19 15 17.13.D NMAC) Instructions: Please indentify the	fucility
Disposal Facility Name: Controlled Recovery Inc.		
	Each of the following items must be attached to the closure plan. Please in	dicate,
by a check mark in the box, that the documents are attached.		
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate Proof of Surface Owner Notice - based upon the appropriate requi	opriate requirements of 19.15 17.10 NMAC	
Construction and Design of Burial Trench (if applicable) based up	on the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requiremen	ts of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appro Waste Material Sampling Plan - based upon the appropriate requir	operate requirements of Subsection F of 19.15.17.13 NMAC	
	uids and drill cuttings or in case on-site closure standards cannot be achieved	i)
Soil Cover Design - based upon the appropriate requirements of S	absection H of 19.15.17.13 NMAC	•
Re-vegetation Plan - based upon the appropriate requirements of S		
Site Reclamation Plan - based upon the appropriate requirements of	of Subsection G of 19.15.17.15 NMAC	
Operator Application Certification:		
I hereby certify that the information submitted with this application is true	e, accurate and complete to the best of my knowledge and belief.	
Name (Print): Jerry W. Sherrell	Title: Production Clerk	
Signature: Very W. Shenoll	Date: June 19, 2008	
	7	
e-mail address: jerrys@mackenergycorp.com	Telephone: (575) 748-1288	
OCD Approval: Permit Application (including closure plan) C	losure Plan (only)	
OCD Approval: Permit Application (including closure plan) COOCD Representative Signature:	Approval Date: 6/23/08	
OCD Representative Signature: Title:	OCD Permit Number: P1-DDDD9	
OCD Representative Signature:	OCD Permit Number: P1-DDDD9	-
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Sul Closure Method: Waste Excavation and Removal On-Site Closure Method	Approval Date: 6/23/08 OCD Permit Number: P1-DDDD9 OSSection K of 19.15.17.13 NMAC Closure Completion Date:	
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Sul Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Approval Date: 6/23/08 OCD Permit Number: P1-DDDD9 OSSECTION K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method	
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Sul Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the foll	Approval Date: 6/23/08 OCD Permit Number: P1-DDDD9 OSSection K of 19.15.17.13 NMAC Closure Completion Date:	heck
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OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Sul Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the foll 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	Approval Date: 6/23/08 OCD Permit Number: Pl-DDDD Desection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method Description items must be attached to the closure report. Please indicate, by a complete indicate, by a complete complete to the best of my knowledge and requirements and conditions specified in the approved closure plan. Title:	d

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).