District I 1625 N French Dr., Hobbs, NM 88240 District II Distr 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 En NIM 97505

District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220	 Inerais and Natural Resources Department Conservation Division 0 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 Environment pits
Proposed Alternative Met Type of action: Permit of a pit, closed Closure of a pit, closed Instructions: Please submit one application (Form C-144 Please be advised that approval of this request does not relieve the operate environment Nor does approval relieve the operator of its responsibility	p Svstem. Below-Grade Tank. or p Svstem. Below-Grade Tank. or pethod Permit or Closure Plan Application d-loop system, below-grade tank, or proposed alternative method ped-loop system, below-grade tank, or proposed alternative method per individual pit, closed-loop system, below-grade tank or alternative request ator of liability should operations result in pollution of surface water, ground water or the ty to comply with any other applicable governmental authority's rules. regulations or ordinances
Facility or well name: <u>Gar State #5</u>	
API Number 30-025-38494	
	ip <u>16S</u> Range <u>33E</u> County: <u>Lea, NM</u>
	Longitude NAD: []1927 [] 1983
Surface Owner: 🗌 Federal 🏧 State 🗌 Private 🗌 Tribal Trust or I	Indian Allotment
<u>Pit</u> : 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
Lined 🗍 Unlined	Liner type: Thicknessmil LLDPE HDPE PVC
Liner type: Thicknessmil	PVC Other
Other String-Reinford	rced Seams: 🗌 Welded 🗍 Factory 🗋 Other
Seams: 🗌 Welded 🗍 Factory 🗌 Other	
Volume:bbl Dimensions: Lx Wx 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:	
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-	
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: Thicknessmi 🗌 HDPE 🗍 P	
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 considera of approval	ration 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	Yes 🗌
 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 [
 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 	U Yes I 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 	U Yes I 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 🗌
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 □
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗆
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	□ Yes □
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌
Within a 100-year floodplain. - FEMA map	🗋 Yes 🗆
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 ar
 Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17 15 NMAQ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17 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 19.15.17.12 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: or Permit Number:	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC	
<u>Instructions: Each of the following items must be attached to the application.</u> Please indicate, by a check mark in the box, that the distance of the following items must be attached to the application. Please indicate, by a check mark in the box, that the distance of the second	ocuments ar
Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria 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	f 19.15.17 15) NMAC
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17.13 NMAC	

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					
 Glimatological 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 H₂S, 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 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.					
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					
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					
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - (WATERS database search; USGS, Data obtained from nearby wells					
 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 					
Withun 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					
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					
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					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS. NM Geological Society; Topographic map					
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No				

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Waste Excavation				·····
closure plan. Ple	ase indicate, by a check mark in	n the box, that the docume	nts are attached.	
Protocols a	nd Procedures - based upon the a on Sampling Plan (if applicable)	appropriate requirements o	t 19 15 17.13 NMAC	
Confirmation	cility Name and Permit Number	- for liquids drilling fluids	and drill cuttings)	CLION FOLTO IS IN IS NMAC
Soil Backfil	1 and Cover Design Specificatio	ins - based upon the approp	mate requirements of Sub	section H of 19 15 17 13 NMAC
Re-vegetati	on Plan - based upon the approp	rtate requirements of Subse	ection [of 19 15 17 13 NN	MAC
🗌 Site Reclam	atton Plan - based upon the appr	ropriate requirements of Su	ibsection G of 19.15 17 13	3 NMAC
Waste Removal (losure For Closed-loop System	ns That Utilize Haul-off I	Bins Only: (19.15.17.13)	D NMAC) Instructions: Please indentify the
· · ·	e disposal of liquids, drilling flu			
Disposal Facility				ermit Number <u>R-9166</u>
On-Site Closure I	Plan Checklist: (19.15 17.13 N	MAC) Instructions: Each	t of the following items m	nust be attached to the closure plan. Please in
by a check mark in	n the box, that the documents and ra Compliance Demonstrations	re attached	te requirements of 10 (5)	17 10 ND4 A C
	face Owner Nouce - based upon			
Construction	and Design of Burial Trench (if applicable) based upon t	he appropriate requirement	
	d Procedures - based upon the a			
	n Sampling Plan (if applicable) -			
	nal Sampling Plan - based upon			ise on-site closure standards cannot be achieved
	Design - based upon the appropri			
🗍 Re-vegetatio	on Plan - based upon the appropr	iate requirements of Subse	ction I of 19.15.17.13 NM	/(AC
Site Reclam	ation Plan - based upon the appro-	opriate requirements of Su	bsection G of 19.15.17.13	MAC .
Operator Applica	tion Certification:			
I hereby certify that	at the information submitted with	h this application is true, ad	courate and complete to th	e best of my knowledge and belief.
Norma (Dultar)	Jerry W. Sherrell		THE Pro	duction Clerk
Name (Print):	Jerry W. Bherrerr	Δ.		duction cierk
Signature:	have all Spring	(1)	Date:	June 19, 2008
	and the second		Date	
e-mail address:	ierrys@mackenergy	vcorp.com	Telephone:	(575) 748-1288
e-mail address:			Telephone:	(575) 748-1288
	jerrys@mackenergy Persnit Application (including			(575) 748-1288
OCD Approval:	Permit Application (including			
	Permit Application (including			(575) 748-1288 Approval Date:
OCD Approval:	Permit Application (including			Approval Date: <u>6/23/08</u>
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Form	C-1	4.2
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Oil Conversation Division

Mack Energy Closed Loop System Design Plan

Equipment list,

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- 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).