State of New Mexic

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 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

1 4 2008

y Minerals and Natural Resources
Department

Oil Conservation Division JUL 2 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

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Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method 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 com	ply with any other applicable governmental authority's rules, regulations or ordinances.			
Operator:Chesapeake Operating, Inc OGRID #:147179				
Address:P. O. Box 18496 Oklahoma City, OK 73154-0496				
Facility or well name:Lost Tank 16 State # 1				
API Number:30-025-38906OCD Permit Number:				
U/L or Qtr/QtrM Section16 Township _21S Range _32E County: _Lea				
Center of Proposed Design: Latitude32.484980 Longitude103.686700 NAD:1927 1983				
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 ☐ Haul-off Bins ☐ Other			
☐ Permanent ☐ Emergency ☐ Cavitation ☐ Steel Pit	☐ Lined ☐ Unlined			
Lined Unlined	Liner type: Thicknessmil			
Liner type: Thicknessmil	Other			
Other String-Reinforced	Seams: Welded Factory Other			
Seams: Welded Factory Other	Volume:bblyd³			
Volume:bb! 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	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 submitted to the Santa Fe Environmental Bureau office for consideration	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 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.			

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 19.15.17.9 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	
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 Waste Removal (Closed-loop systems only) 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	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 significant watercourse or 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

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 significant watercourse or 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		
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 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 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 19.15.17.9 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:			

Waste Excavation and Removal Closure Plan Checklist: (19.15.	17 12 NMAC) Instructions: Each of the	following itams west be attached to the
closure plan. Please indicate, by a check mark in the box, that the		Johnwing hems must be anached to the
Protocols and Procedures - based upon the appropriate require		
Confirmation Sampling Plan (if applicable) - based upon the a		of 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilli		
Soil Backfill and Cover Design Specifications - based upon the		H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements		
Site Reclamation Plan - based upon the appropriate requireme		С
Waste Removal Closure For Closed-loop Systems That Utilize H		
or facilities for the disposal of liquids, drilling fluids and drill cutti		NM-01-0006
Disposal Facility Name: Conrolled Recovery,	Disposal Facility Permit N	Tumber: R-9166
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction	is: 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.	3 3 0	•
Siting Criteria Compliance Demonstrations - based upon the a	appropriate requirements of 19.15.17.10 N	IMAC
Proof of Surface Owner Notice - based upon the appropriate r		
Construction and Design of Burial Trench (if applicable) base	ed upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate require		
Confirmation Sampling Plan (if applicable) - based upon the a	appropriate requirements of Subsection F	of 19.15.17.13 NMAC
Waste Material Sampling Plan - based upon the appropriate re	equirements of Subsection F of 19.15.17.1	3 NMAC
Disposal Facility Name and Permit Number (for liquids, drilli	ng fluids and drill cuttings or in case on-s	ite closure standards cannot be achieved)
Soil Cover Design - 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 requireme	nts of Subsection G of 19.15.17.13 NMA	C
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Operator Application Certification:		
I hereby certify that the information submitted with this application	is true, accurate and complete to the best	of my knowledge and belief.
	T'41 C ' D 1	
Name (Print): _Linda Good	litte: Senior Regulat	tory Compliance Specialist
$\mathscr{L}: \cap \mathscr{U} \longrightarrow \mathscr{U}$		
Signature: Juda Sook	Date:7/10/2008	3
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e-mail address: linda.good@chk.com	Telephone: 405-767-	4275
e-mail address:linda.good@chk.com	Telephone: _ 405-767-	4275
		4275
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only)	pproval Date: 8/27/08
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title: Geologist Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion	pproval Date: 8/27/08 PJ-00350
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title: Geologist Closure Report (required within 60 days of closure completion): 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 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	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Alternative Closure Method following items must be attached to the	pproval Date: 8/27/08 PJ-DD35D Date: closure report. Please indicate, by a check
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Geologist Closure Report (required within 60 days of closure completion): 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 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:	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Alternative Closure Method following items must be attached to the Longitude this closure report is true, accurate and co	pproval Date: \$\frac{12708}{2708}\$ PI-00350 Date:
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title: Geologist Closure Report (required within 60 days of closure completion): 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 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	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Alternative Closure Method following items must be attached to the Longitude this closure report is true, accurate and co	pproval Date: \$\frac{12708}{2708}\$ PI-00350 Date:
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Chesapeake Operating, Inc.'s Closed Loop System Lost Tank 16 State # 1 Unit M Sec. 16, T-21S R-32E Eddy Co., NM API # 30-025-38906

Equipment & Design:

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits.

- (2) Dual Motion "King Cobra" Shale Shakers
- (2) 250 bbl per/minute "Derrick DE" centrifuges
- (1) 500 bbl "frac" tank" for fresh water
- (1) 500 bbl "frac tank" brine water

Operations & Maintenance:

During each and every tour, the rig's drilling crew will inspect and monitor closely the drilling fluids contained within the steel pits and visually monitor any spill which may occur.

Within 48 hours should a spill, release or leak occur, the NMOCD District I office in Hobbs (575-393--6161) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur.

This is in keeping with the reporting requirements of NMOCD's rule 116.

Closure:

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed to the Controlled Recovery, Inc.'s location:

The permit number for the Lost Tank 16 St. # 1 is: R-9166