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

## 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 exceptions submit to the Section Systems of th

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

## JUL 23 2008 OCD-ARTESIA

## 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 comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: Yates Petroleum Corporation OGRID #: Address: 105 South 4th Street, Artesia, NM 88210 Facility or well name: Cottonwood KI Federal Com #3H U/L or Qtr/Qtr I Section 18 Township 16S Range 25E County: Eddy Center of Proposed Design: Latitude N32.920961 Longitude W104.517044 NAD: ⊠1927 □ 1983 Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment ☑ Closed-loop System: Subsection H of 19.15.17.11 NMAC Pit: Subsection F or G 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 ☐ Other \_\_\_\_\_ ☐ String-Reinforced Seams: Welded Factory Other Volume: \_\_\_\_\_bbl \_\_\_\_\_yd<sup>3</sup> Seams: Welded Factory Other Dimensions: Length\_\_\_\_ x Width\_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L\_\_\_\_ x W\_\_\_ x D\_\_\_\_ 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 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 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 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 ☐ 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 - 1WATERS 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
<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>	☐ 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 de attached.  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 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC Haul waste to Gandy Marley or Lea Land Farm	£19.15.17.9
Previously Approved Design (attach copy of design) API Number:	

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	cuments are
attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	cuments are
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	
<ul> <li>☐ Quality Control/Quality Assurance Construction and Installation Plan</li> <li>☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> </ul>	
<ul> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> <li>Monitoring and Inspection Plan</li> <li>Erosion Control Plan</li> <li>Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul>	
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 FEMA map	☐ Yes ☐ No

Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the osure 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	
Vaste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility facilities for the disposal of liquids, drilling fluids and drill cuttings.	V
Disposal Facility Name: Gandy Marley - Lea Land Farm - CRI Disposal Facility Permit Number: NM-01-0019 - WM-1-035 – R-9166	
In-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate	<u> </u>
y 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 Subsection F 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 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, drilling fluids and drill cuttings or in case on-site 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 requirements of Subsection G of 19.15.17.13 NMAC	
berator Application Certification: hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.	
lame (Print): Cy CowardTitle: Regulatory Agent	
ante (11mt). Cy Chwap	
ignature:	
-mail address: cy@ypchm.com Telephone: 575-748-4372	
CD Approval: Permit Application (including closure plan)   Closure Plan (only)	
CD Representative Signature U. Branco Approval Date: 07-25-08	
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CD Representative Signature   L. Leave   Approval Date: 07-25-08    Gitle: OCD Permit Number: 0208/8    Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC	_
CD Representative Signature	
CD Representative Signature	
CD Representative Signature	_
Approval Date:	_
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CD Representative Signature   D2-25-08      Sittle:   Subsection   OCD Permit Number:   D208/8     Closure Report (required within 60 days of closure completion):   Subsection   Subsection   Subsection   Closure Completion   Date:     Closure Method:   Closure Completion   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 nark in the box, that the documents are attached.   Proof of Closure Notice   Proof of Deed Notice (if applicable)   Plot Plan   Confirmation Sampling Analytical Results	
Approval Date:	
CD Representative Signature   D2-25-08      Sittle:   Subsection   OCD Permit Number:   D208/8     Closure Report (required within 60 days of closure completion):   Subsection   Subsection   Subsection   Closure Completion   Date:     Closure Method:   Closure Completion   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 nark in the box, that the documents are attached.   Proof of Closure Notice   Proof of Deed Notice (if applicable)   Plot Plan   Confirmation Sampling Analytical Results	
Approval Date:	
Approval Date:	_
Approval Date:	
Approval Date:   07-25-08	
Approval Date:	
Approval Date:	

## Yates Petroleum Corporation – Equipment Design Plan Closed Loop System

Closed Loop System will consist of:

- 1 double panel shale shaker
- 1 (minimum ) Centrifuge, certain wells and flow rates may require 2 centrifuges On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
- 1 minimum centrifugal pump to transfer fluids
- 2-500 bbl. FW Tanks
- 1-500 bbl. BW Tank
- 1 half round frac tank 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.
- 1 Set of rail cars / catch bins

Certain wells will use an ASC Auger Tank

All equipment will inspected at least hourly by rig personnel and daily by contractors personnel.

Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.