District I

1625 N. French Dr , Hobbs, NM 88240

District II

1301 W Grand Ave., Artesia, NM 88210

District III

1000 Rio Biazos Rd., 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

June 16, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

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

1 Toposeu Atternative Method I en	init of Closure Fran Application
	n, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individue Please be advised that approval of this request does not relieve the operator of liability environment. Nor does approval relieve the operator of its responsibility to comply with the complete of the	lity should operations result in pollution of surface water, a gain water or the
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538/5 IILOLIVED
Address: PO Box 4289, Farmington, NM 87499	0 300 203
Facility or well name: Howell E #300	On cons div. dist. 3
API Number: <b>30-045-26918</b> OC	D Permit Number:
U/L or Qtr/Qtr: A(NENE) Section: 14 Township: 30N	Range: 8W County: San Juan 6 > 150 County
Center of Proposed Design: Latitude: 36.814800' N L	ongitude: 107.637430' W NAD: X 1927 1983
Surface Owner: X Federal State Private Triba	al Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	X Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling Workover	Drying Pad X Tanks Haul-off Bins Other:
Permanent Emergency Cavitation	Lined Unlined
Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC
Liner type: Thickness mil LLDPE HDPE PVC	Other:
Other String-Reinforced	Seams: Welded Factory Other:
Seams: Welded Factory Other	Volume: 500 bbl 104 yd3
Volume: bbl Dimensions: L xW xD	Dimernsions: Length 45' x Width 10'
Below-grade tank: Subsection 1 of 19 15.17 11 NMAC	Fencing: Subsection D of 19.15 17.11 NMAC
Volume:bbl	Chain link, six feet in height, two strangs of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between
Tank Construction Material:	one and four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11
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"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness:mil HDPE PVC	emergency telephone numbers
Other:	X 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 of approval.	Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 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. (Fencing in Design Plan)
	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		□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.	Yes	□No			
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA				
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	_				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent puts)	∏Yes	No			
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ШМА				
Within 500 horizonal 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.	Yes	□No			
- NM Office of the State Engineer - iWATERS database search; 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	Yes	□No			
- 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	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		□No			
Society; Topographic map Within a 100-year floodplain	∏Yes	□No			
- FEMA map					
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 de	ocuments ar	e 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 Maintence 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 API Number: or Permit					
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					
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC					
X Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC		ļ			
Previously Approved Design (attach copy of 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 documents are att	tached.				
Hydrogeologic Report - based upon the requirements of Paragraph (I) 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 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 X Closed-loop System Alter	native				
Proposed Closure X Waste Excavation and Removal					
On-site Closure Method (only for temporary pits and closed-loop					
In-place On-site Trench					
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau f	or				
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. Recommentations 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. Justification 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.	☐Yes ☐No				
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Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached
to the closure plan. Please indicfate, by a check mark in the box, that the documents are attached.
X   Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC   Confirantion 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
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17.13 NMAC
X 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-off Bins Only: (19 15 17 13 D NMAC) Instructions: Please identify the facility or
facilities for the disposal of liquids, drilling fluids and drill cuttings.
Disposal Facility Name: Envirotech, Basin Disposal Disposal Facility Permit Number: NM-01-0011 & NM-01-005
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by 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
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
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.
Name (Print): Crystal Tafoya Title: Regulatory Technician
Signature: Date. 7/17/2008
e-mail address: crystal tafoya@co/locs/phillips.com Telephone: 505-326-9837
OCD Approval: Permit Application (including closure plan) Closure Plan (only)
OCD Representative Signature: 3-18-08
Title: Enviro / spec OCD Permit Number
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC
Closure Completion Date:
Closure Method:
Waste Excavation and Removal On-Site Closure Alternative Closure
If different from approved plan, please explain
Closure Report Attactment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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
T T Confidition Sampling Analytical Results
Waste Material Sampling Analytical Results
<ul> <li>Waste Material Sampling Analytical Results</li> <li>□ Disposal Facility Name and Permit Number</li> <li>□ Soil Backfilling and Cover Installation</li> </ul>
Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
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)
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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 Latitude: Longitude NAD: 1927 1983  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
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Form C-144 Oil Conservation Division

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO BYERRY AND MENERALS DEPARTMENT

## P. Q. BOX 2008 SANTA PE, NEW MEXICO 87901

Form C-102 Revised 10-1-78

All distances must be from the outer boundaries of the Section.

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## Burlington Resources Oil & Gas Company, LP Closed-loop Plans

#### Closed-loop Design Plan

BR's closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will include an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1. Fencing is not required for an above ground closed-loop system
- 2. It will be signed in compliance with 19.15,3.103 NMAC
- 3. A frac tank will be on location to store fresh water

### **Closed-loop Operating and Maintenance Plan**

BR's closed-loop tank will be operated and maintained to contain liquids and solids in order to prevent contamination of fresh water sources, in order to protect public health and the environment. To ensure the operation is maintained the following steps will be followed:

- 1. The liquids will be vacuumed out and disposed of at the Basin Disposal facility (Permit # NM-01-005). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) on a periodic basis to prevent over topping.
- 2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
- 3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately
- 4. All of the above operations will be inspected and a log will be signed and dated. During rig operations the inspection will be daily.

#### **Closed-loop Closure Plan**

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.