1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd , Aztec, NM 87410

District IV

State of New Mexico Energy Minerals and Natural Resources

> Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the

1220 S St. Francis Dr , Santa Fe	NM 87505 appropriate NMOCD District Office			
38110	Pit, Closed-Loop System, Below-Grade Tank, or			
Proposed Alternative Method Permit or Closure Plan Application				
Туре с	f action: X 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 Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method			
Instructions: Please st	bmit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request			
environment Nor do	that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the exapproval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.			
Operator: Burlington Re	sources Oil and Gas Company LP OGRID#: 14538			
Address: PO Box 4289,	Farmington, NM 87499			
Facility or well name: M	arshall A 1			
API Number:	30-045-06550 OCD Permit Number:			
U/L or Qtr/Qtr: E(SWN Center of Proposed Design Surface Owner: X				
Lined Unlir	gency Cavitation P&A ed Liner type: Thickness mil LLDPE HDPE PVC Other led Factory Other Volume. bbl Dimensions L x W x D			
X Closed-loop System Type of Operation: Drying Pad X Lined Unlin Liner Seams: Weld	P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Above Ground Steel Tanks Haul-off Bins Other d Liner type: Thickness mil LLDPE HDPE PVD Other d Factory Other			
Below-grade tank: Volume: Tank Construction materi Secondary containmen Visible sidewalls and Liner Type: Thicknet	Subsection I of 19.15.17.11 NMAC bbl Type of fluid: l: with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off liner Visible sidewalls only Other			
5 Alternative Methor Submittal of an exception				

6. The state of th							
Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)							
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)							
Four foot height, four strands of barbed wrie evenly spaced between one and four feet	Four foot height, four strands of barbed wire evenly spaced between one and four feet						
Alternate. Please specify							
7	<u> </u>						
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
Screen Netting Other							
Monthly inspections (If neiting or screening is not physically feasible)							
8		-					
Signs: Subsection C of 19.15 17.11 NMAC							
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
X Signed in compliance with 19.15 3.103 NMAC							
9							
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:							
Trease encourage on the or more of the following in requested, if not teave blank.							
Administrative approval(s): Requests must be submitted to the appropriate division district of 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.	TYes	\square_{No}					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		LJ.``					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	□No					
lake (measured from the ordinary high-water mark).	: :						
- Topographic map; Visual inspection (certification) of the proposed site	ı						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	No					
application.							
(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.	Yes	∐No					
(Applied to permanent pits)	∐NA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	_	_					
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					
F - Posses, or minima appreciations							
- 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	Yes	No					
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.	Yes	По					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.	Yes	□No					
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	_	_					
Within an unstable area.	Yes	No					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map							
Within a 100-year floodplain	Yes	По					
- FEMA map	ш - •						

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					
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 (Please complete Boxes 14 through 18, if applicable) - 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 or Permit					
12 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 (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9					
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17 10 NMAC					
X 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 (Please complete Boxes 14 through 18, if applicable) - 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					
Previously Approved Operating and Maintenance Plan API					
13					
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 (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					
Lincr 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					
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.					
Type: Drilling X Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank X Closed-loop System					
Alternative					
Proposed Closure Method: Waste Excavation and Removal					
X Waste Removal (Closed-loop systems only)					
On-site Closure Method (only for temporary pits and closed-loop systems)					
In-place BurialOn-site Trench					
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)					
15					
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 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 Inquids, drilling fluids and drill cuttings) Soil Bookfill and Cours Province Prov					
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					

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground						
Instructions Please identify the facility or facilities for the disposal of liquids, drill are required	ling fluids and drill cuttings. Use attachment if more than two	facilities				
Disposal Facility Name Envirotech	Disposal Faculity Permit # NM-01-0011					
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #. NM-01-005					
Will any of the proposed closed-loop system operations and associated activ Yes (If yes, please provide the information No	vities occur on or in areas that will not be used for future s	service and operations?				
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - 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						
17						
Siting Criteria (Regarding on-site closure methods only: 19.15.17 10 NMAC Instructions Each suting criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided below Requests regarding changes to certain sting 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.		Yes No				
 NM Office of the State Engineer - iWATERS database search; USGS: Data 	obtained from nearby wells	N/A				
Ground water is between 50 and 100 feet below the bottom of the buried wa		Yes No				
- NM Office of the State Engineer - iWATERS database search; USGS; Data of	btained from nearby wells	N/A				
Ground water is more than 100 feet below the bottom of the buried waste.	also al Community and In	Yes No				
- NM Office of the State Engineer - iWATERS database search; USGS; Data of	•	∐N/A				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign (measured from the ordinary high-water mark).	Yes No					
 Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church 	un existence at the time of initial application	Yes No				
Visual inspection (certification) of the proposed site; Aerial photo; satellite im	••					
		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 fee of any other fresh water well or spring, in existence at the time of the 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 pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes No					
- Written confirmation or verification from the municipality; Written approval Within 500 feet of a wetland	Yes No					
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual i						
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining at	nd Mineral Division	Yes No				
Within an unstable area		Yes No				
- Engineering measures incorporated into the design; NM Bureau of Geology & Topographic map						
Within a 100-year floodplain - FEMA map		Yes No				
18 0. Cl. Cl. D.						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Ea by a check mark in the box, that the documents are attached.	ich of the following items must bee attached to the closu	re plan. Please indicate,				
Siting Criteria Compliance Demonstrations - based upon the appropri	riate 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/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC						
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - 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						

Form C-144

<i>o</i> '						
19	-					
Operator Application						
	nformation submitted with this application is true, accu		•			
Name (Print)	Rhonda Rogers	Title	Staff Regulatory Technician			
Signature	Hone Dogue	Date	7/29/2009			
e-mail address.	rogerrs@conocophillips.com	Telephone.	505-599-4018			
20	([7]			
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	_			
OCD Representative	Signature: Brund Sell	/	Approval Date: 8-17-69			
	Signature: Brung Sell Envirolspec					
Title:	1- nvinspec	OCD Peri	mit Number:			
21						
	ired within 60 days of closure completion): Sub	section V of 10 15 17 13 NMA	C			
			sure activities and submitting the closure report. The closure			
		-	es. Please do not complete this section of the form until an			
approved closure plan ha	is been obtained and the closure activities have been c	· —				
		☐ Closur	re Completion Date:			
22						
Closure Method:						
Waste Excavation	n and Removal On-site Closure Method	Alternative Closure	e Method Waste Removal (Closed-loop systems only)			
If different from	approved plan, please explain	_ _	_			
22						
23 Closure Report Regard	ing Waste Removal Closure For Closed-loop System	s That Utilize Above G	round Steel Tanks or Haul-off Rins Only:			
			tings were disposed. Use attachment if more than two facilities			
were utilized.						
Disposal Facility Nan	ue.	Disposal Facility	y Permit Number:			
Disposal Facility Nan		•	y Permit Number:			
l ·	system operations and associated activities performed	_	tot be used for future service and opeartions?			
Yes (If yes, pleas	e demonstrate complilane to the items below)	No				
<u> </u>	d areas which will not be used for future service and o	perations:				
	(Photo Documentation)					
<u> </u>	and Cover Installation Application Rates and Seeding Technique					
Ke-vegetation Ap	phreation Rates and Seeding Technique					
24						
the box, that the docu		lowing items must be att	ached to the closure report. Please indicate, by a check mark in			
l <u> </u>	e Notice (surface owner and division)					
122	Notice (required for on-site closure)					
=	n-site closures and temporary pits)					
	ampling Analytical Results (if applicable)					
	Sampling Analytical Results (if applicable)					
🗏	y Name and Permit Number					
l 🛁 '	and Cover Installation					
 	Application Rates and Seeding Technique		'			
= -	on (Photo Documentation)					
On-site Closure	,	Longitude:	NAD 1927 1983			
On site closure			1721 1703			
Operator Closure Ce	rtification					
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that						
	ngormation and attachments submitted with this closur a all applicable closure requirements and conditions sp	•				
·	-					
Name (Print)		Title: _				
Signature:		Date:				
						
e-mail address:		Telephone:				

Form C-144

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

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.