Form C-144 July 21, 2008

District II

1301 W Grand Ave , Artesia, NM 88210

District III

1000 Rio Brazos Rd, Aztec, NM 87410

District IV 1220 S St Francis Dr , Santa Fe, NM 87505

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

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

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

Type of 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 systems 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 any represent. Not does approval reliance the operator of its responsibility to comply with any other applicable governmental authority's rules regulations or ordinance.

1
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
acility or well name: Mangum 3
PI Number: 30-045-07810 OCD Permit Number
/L or Qtr/Qtr: J(NW/SE) Section: 28 Township: 29N Range: 11W County: San Juan
rface Owner: Federal State X Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: Drilling Workover  Permanent Emergency Cavitation P&A  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other  String-Reinforced  Liner Seams: Welded Factory Other Volume bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: X P&A
Below-grade tank: Subsection I of 19 15 17.11 NMAC  Volume:
Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Signs: Subsection C of 19.15.17.11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.3.103 NMAC  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 of the Santa Fe Environmental Bureau office for consideration of approval.  (Fencing/BGT Liner)  Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Chain link, six feet in height, two strands of bailed wine ait top (Required of located within 1000 feet of a permanent residence, school, hospital, institution or chare.	
Town foon height, from strands of harbeed were evenly spaced between one and four feet   Alternate   Please specify	Four foot beight, four strands of barbed wire evenly spaced between one and four feet   Alternate   Please specify	
Netting   Subsection   E of 19.15.17.11 NMAC (Applies to permanent apart and permanent open top tanks)	Alternate   Please specify	oval.
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pass and permanent open top tanks)  Screen   Netting   Other	Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pats and permanent open top tanks)    Screen   Netting   Other	oval.
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Screen Notting Other    Monthly inspections (If netting or screening is not physically feasible)    Signs: Subsection C of 19.15.17.11 NMAC	Screen   Netting   Other	oval.
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- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
	- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	No
	- NM Office of the State Engineer - TWATERS database search; visual inspection (certification) of the proposed site.	No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance           Yes       No		□No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	· • • • • • • • • • • • • • • • • • • •	□No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		<b>□</b>
Within 500 feet of a wetland.		<b>□</b>
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	∤ <del>L</del> i	□No
Within the area overlying a subsurface mine.	Within the area overlying a subsurface mine.	□No
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□No □No
Within an unstable area.	Within an unstable area.	□No □No
	- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	□No □No □No
		□No □No □No
Society; Topographic map	Within a 100-year floodplain - FEMA map	□No □No □No □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
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
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  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
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  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 Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  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 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 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

Form C-144 Oil Conservation Division

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16 Wasta Pamovol Clasura For Closed Joan Systems That Hilling Above Cround Steel	Canke or Haul off Rine Only	u. (10.15.17.13.1) NMAC)		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions Please identify the facility or facilities for the disposal of liquids, drilling fli are required.			alities	
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	10B	
	Disposal Facility Permit #		·	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information No	occur on or in areas that wi	"Il not be used for future ser	vice 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 Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Site	on I of 19.15.17 13 NMAC			
17				
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. Receptum siting criteria may require administrative approval from the appropriate district office or for consideration of approval Justifications and/or demonstrations of equivalency are required	nay be considered an exception	which must be submitted to the S		
Ground water is less than 50 feet below the bottom of the buried waste.			Yes No	
- NM Office of the State Engineer - tWATERS database search; USGS: Data obtain	ed from nearby wells		N/A	
Ground water is between 50 and 100 feet below the bottom of the buried waste			Yes No	
- NM Office of the State Engineer - iWATERS database search; USGS, Data obtained	d from nearby wells		N/A	
Ground water is more than 100 feet below the bottom of the buried waste			Yes No	
- NM Office of the State Engineer - iWATERS database search, USGS; Data obtained	d from nearby wells		□N/A	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant (measured from the ordinary high-water mark).	it watercourse or lakebed, sin	khole, or playa lake	Yes No	
- Topographic map, Visual inspection (certification) of the proposed site  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				
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 well pursuant to NMSA 1978, Section 3-27-3, as amended.		ipal ordinance adopted	Yes No	
<ul> <li>Written confirmation or verification from the municipality, Written approval obtain</li> <li>Within 500 feet of a wetland</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspec</li> </ul>		posed site	Yes No	
Within the area overlying a subsurface mine.	( <sub>F</sub> <sub>1</sub>		Yes No	
- Written confiramtion 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	,	,,,		ļ
Within a 100-year floodplain FEMA map			Yes No	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must	bee attached to the closure	plan. Please indicate,	
Siting Criteria Compliance Demonstrations - based upon the appropriate r	equirements of 19 15 17 1	O NMAC		
Proof of Surface Owner Notice - based upon the appropriate requirements	-			l
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of	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				
	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  Revegetation Plan - based upon the appropriate requirements of Subsection L 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				

19			
Operator Application Certification  Thereby certify that the information subm	initted with this application is true, accurat	e and complete to the	e best of my knowledge and belief.
Name (Print).	Rhonda Rogers	Title:	Staff Regulatory Technician
Signature Dhan	The mells	Date.	8/17/2009
(	rrs@conocophillips.com	Telephone	505-599-4018
20 OCD Approval: Permit Applic	ation (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:	Brand Rell		Approval Date: 9/1/09
Title: Enviro	Ispee	OCD Peri	mit Number:
21			
Closure Report (required within 60	days of closure completion): Subsect		
			sure activities and submitting the closure report. The closure es Please do not complete this section of the form until an
approved closure plan has been obtained	and the closure activities have been com	_	
<u></u>		☐ Closur	re Completion Date:
22			
Closure Method:	Do O Madad	Alternative Closure	e Method Waste Removal (Closed-loop systems only)
Waste Excavation and Removal  If different from approved plan, p	٦,	Atternative Closure	e Method
	ocase explain.		
23 Closure Report Regarding Waste Rom	oval Closura For Closed-loop Systems T	Chat Litilize Above G	Ground Steel Tanks or Haul-off Bins Only:
			tings were disposed. Use attachment if more than two facilities
were utilized.		B 15 1.	
Disposal Facility Name:		-	y Permit Number
Disposal Facility Name:  Were the closed-loop system operation	ns and associated activities performed on	-	y Permit Number:  not be used for future service and opeartions?
Yes (If yes, please demonstrate c	· —		or used for ratale service and openitions
Required for impacted areas which w	ill not be used for future service and oper	rations:	
Site Reclamation (Photo Docume	entation)		
Soil Backfilling and Cover Instal			
Re-vegetation Application Rates	and Seeding Technique		
Closure Report Attachment Che the box, that the documents are attac		ing items must be att	tached to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surfa	•		
Proof of Deed Notice (require	•		
Plot Plan (for on-site closures	and temporary pits)		
Confirmation Sampling Analy	tical Results (if applicable)		
Waste Material Sampling Ana	lytical Results (if applicable)		
Disposal Facility Name and Pe			•
Soil Backfilling and Cover Ins			
Re-vegetation Application Rat	•		
Site Reclamation (Photo Docu On-site Closure Location:	Latitude:	Longitude:	NAD   1927   1983
on the closure Location.			1727 1700
25			
Operator Closure Certification:	attachments submitted with this closure r	eport is ture, accurate	e and complete to the best of my knowledge and belief. I also certify that
	closure requirements and conditions spec	ified in the approved	* * * * * * * * * * * * * * * * * * * *
Name (Print)		Title.	
Signature:		Date.	
e-mail address:		Telephone:	

## 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) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) 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) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). 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.