District 1

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

## State of New Mexico Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe. NM 87505

Form C-144 July 21, 2008

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

10344
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<u>District IV</u> 1220 S St Francis Dr , Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
Pit, Closed-Loop System, Below-Grad	le Tank, or
Proposed Alternative Method Permit or Closed-loop system, below-grade to	
Type of action: X Permit of a pit, closed-loop system, below-grade to	ank, 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 permit	tted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method  Instructions: Please submit one application (Form C-144) per individual pit, closed-load	on system, below arade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations r	
environment Nor does approval relieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances
Deperator: Burlington Resources Oil & Gas Company, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: East 20R	
API Number: 30-045-33492 OCD Permit Number	er
	12W County: San Juan
Center of Proposed Design: Latitude: 36.872193 °N Longitude:	108.061222 °W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or India	n Allotment
Pit: Subsection F or G of 19 15 17 11 NMAC	RCVD AUG 22 '12
Temporary Drilling Workover  Permanent Emergency Cavitation P&A	OIL CONS. DIV.
	HDPE PVC Other DIST. 3
String-Reinforced	
Liner Seams Welded Factory Other Volume	bbl
3	activities which require prior approval of a permit or .  HDPE PVD Other
Below-grade tank: Subsection I of 19 15 17 11 NMAC  Volume bbl Type of fluid.	
Tank Construction material  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and auto  Visible sidewalls and liner Visible sidewalls only Other	omatic overflow shut-off
Liner Type Thickness milHDPEPVCOther _	
5 Alternative Method:	
Submittal of an exception request is required  Exceptions must be submitted to the Santa Fe Environi	mental Bureau office for consideration of approval

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 wire evenly spaced between one and four feet  Alternate Please specify					
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)					
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					
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					
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 - 1WATERS database search; USGS, Data obtained from nearby wells	Yes	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.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Yes NA	□No			
- 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 pits)	Yes	No			
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> </ul>	Yes	No			
- NM Office of the State Engineer - tWATERS 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			
<ul> <li>adopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	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 Burcau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> <li>Within a 100-year floodplain</li> <li>FEMA map</li> </ul>	Yes	□No			

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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  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				
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				
String 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				
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				
14				
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 XP&A Permanent Pit Below-grade Tank XClosed-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 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				

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Instructions Please identify the	llosed-loop Systems That Utilize Above Ground St faculity or faculities for the disposal of liquids, drilln					
facilities are required  Disposal Facility Name   1	Envirotech / JFJ Landfarm / IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	NUB		
Disposal Facility Name I		Disposal Facility Permit #				
· · · -	ed-loop system operations and associated activit			service and		
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						
Instructions Each siting criteria re certain siting criteria may require a	on-site closure methods only: 19 15 17 10 NMA equires a demonstration of compliance in the closure pla administrative approval from the appropriate district off I Justifications and/or demonstrations of equivalency a	n Recommendations of acceptablice or may be considered an excep	tion which must be submitted to			
	feet below the bottom of the buried waste ngineer - iWATERS database search, USGS Data of	stained from nearby walls		Yes No		
- NW Office of the State El	ignica - 1WATEKS database scalen, 0303 Data of	named from hearby wens		∐N/A		
	and 100 feet below the bottom of the buried was			Yes No		
- NM Office of the State En	gineer - iWATERS database search, USGS, Data ob	tained from nearby wells		∐N/A		
	00 fect below the bottom of the buried waste			Yes No		
- NM Office of the State En	gineer - iWATERS database search, USGS, Data ob	tained from nearby wells		∐N/A		
Within 300 feet of a continuously (measured from the ordinary high	y flowing watercourse, or 200 feet of any other signif h-water mark)	icant watercourse or lakebed, si	nkhole, or playa lake	Yes No		
- Topographic map, Visual i	inspection (certification) of the proposed site					
•	nt residence, school, hospital, institution, or church in tion) of the proposed site, Aerial photo, satellite imag		pplication	YesNo		
				Yes No		
purposes, or within 1000 horizon	rrvate, domestic fresh water well or spring that less that fee of any other fresh water well or spring, in existance - 1WATERS database, Visual inspection (certic	stence at the time of the initial ap	-			
pursuant to NMSA 1978, Section			ipal ordinance adopted	Yes No		
Within 500 feet of a wetland	erification from the municipality, Written approval ob	iained from the municipality		Пуеѕ Пһо		
	and Identification map, Topographic map, Visual ins	pection (certification) of the pro	posed site			
Within the area overlying a su	absurface mine			Yes No		
	infication or map from the NM EMNRD-Mining and	Mineral Division				
Within an unstable area	rporated into the design, NM Bureau of Geology & N	Ameral Resources TISGS NM (	Geological Society	YesNo		
Topographic map	portion into the design, two Barella of Geology & I	anerai resources, 0505, 1441	dediogical society,			
Within a 100-year floodplain - FEMA map				Yes No		
	dist: (19 15 17 13 NMAC) Instructions: Each	h of the following items mus	st bee attached to the closu	re plan. Please indicate,		
· _	that the documents are attached.  Sance Demonstrations - based upon the appropris	ate requirements of 10 15 17	10 NMAC			
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/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC						
Construction/Design Flan 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						
= 1	Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC					

Form C-144

19 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): Dolly Busse Title. Staff Regulatory Technician				
Signature Alle Ausse Date 8/22/12				
c-mail address dollie I busse@conocophillips.com Telephone 505-324-6104				
20 OCD Approval: Permit Application (including closure plan)   Glosure Plan (only)   OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 8/23/2017 Title: Grapiance OCD Permit Number:				
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date:				
22				
Closure Method:  Waste Executation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain				
23				
25 <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.				
Disposal Facility Name Disposal Facility Permit Number				
Disposal Facility Name Disposal Facility Permit Number				
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?				
Yes (If yes, please demonstrate compliane to the items below)				
Required for impacted areas which will not be used for future service and operations  Site Reclamation (Photo Documentation)				
Soil Backfilling and Cover Installation				
Re-vegetation Application Rates and Seeding Technique				
Closure Report Attachment 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 (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (if applicable)  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  Longitude  NAD  1927  1983				
25				
Operator Closure Certification:  Thereby 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 the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
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.