District I

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

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 July 21, 2008 For temporary pits, closed-loop systems, and below-grade

Form C-144

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

tanks, submit to the appropriate NMOCD District Office

10215

# 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 to Closure of a pit, closed-loop system, below-grade  Modification to an existing permit  Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (Form C-144) per individual pit, closed-loce  Please be advised that approval of this request does not relieve the operator of hability should operations is environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable.	op system, below-grade tank or alternative request result in pollution of surface water, ground water or the
1 Operator Burlington Resources Oil & Gas Company, LP  Address PO Box 4289, Farmington, NM 87499	OGRID#. <u>14538</u>
Facility or well name Lindrith B Unit 37	
API Number: 30-039-23816 OCD Permit Number	er
U/L or Qtr/Qtr. G(SW/NE) Section 4 Township 24N Range.  Center of Proposed Design: Latitude 36.342098 °N Longitude  Surface Owner: X Federal State Private Tribal Trust or India	2W         County:         Rio Arriba           107.05178         °W         NAD         X 1927 1983           an 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 String-Reinforced Liner Seams Welded Factory Other Volume	RCVD JUN 22 '12
3 X Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation X P&A Drilling a new well Workover or Drilling (Applies to notice of intent)	activities which require prior approval of a permit or
Drying Pad X Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE Liner Seams Welded Factory Other	HDPE PVD Other
Below-grade tank: Subsection I of 19 15 17 11 NMAC  Volume	omatic overflow shut-off
5 Alternative Method: Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environ	nmental 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		□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)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	NA			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	Yes [	No		
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  - 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	Yes	No		
Society, Topographic map  Within a 100-year floodplain  - FEMA map	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
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
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
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 X 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 Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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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16 Waste Removal Closure For Closed-loop Systems That Utilize Ab	ove Ground Steel Tanks or Haul-off Bins On	<u>ıly:</u> (19 15 17 13 D NMAC)				
Instructions Please identify the facility or facilities for the disposal of facilities are required	f liquids, drilling fluids and drill cuttings Use	attachment if more than two	i			
Disposal Facility Name Envirotech / JFJ Landfarm / IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	10B			
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #	NM-01-005				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and Yes (If yes, please provide the information No						
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 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 burier - NM Office of the State Engineer - iWATERS database search,			Yes No			
Ground water is between 50 and 100 feet below the bottom of t	he buried waste		Yes No			
- NM Office of the State Engineer - tWATERS database search, t	JSGS, Data obtained from nearby wells		□N/A			
Ground water is more than 100 feet below the bottom of the but	ried waste		Yes No			
- NM Office of the State Engineer - (WATERS database search, U	USGS, Data obtained from nearby wells		□N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of (measured from the ordinary high-water mark)		nkhole, or playa lake	Yes No			
<ul> <li>Topographic map, Visual inspection (certification) of the propos</li> <li>Within 300 feet from a permanent residence, school, hospital, institution</li> </ul>		onlication	□Yes □No			
Visual inspection (certification) of the proposed site, Aerial phot	•	ррисанон	Yes No			
Within 500 horizontal feet of a private, domestic fresh water well or spurposes, or within 1000 horizontal fee of any other fresh water well of NM Office of the State Engineer - iWATERS database, Visual ii	or spring, in existence at the time of the initial ap	_				
Within incorporated municipal boundaries or within a defined municip pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written		pal ordinance adopted	Yes No			
Within 500 feet of a wetland  - US Fish and Wildlife Wetland Identification map, Topographic		posed site	Yes No			
Within the area overlying a subsurface mine			Yes No			
- Written confirantion or venification or map from the NM EMNR	D-Mining and Mineral Division					
Within an unstable area - Engineering measures incorporated into the design, NM Bureau ( Topographic map	of Geology & Mineral Resources, USGS, NM	Geological Society,	∐Yes ∐No			
Within a 100-year floodplain - FEMA map			Yes No			
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instr by a check mark in the box, that the documents are attached.	uctions: Each of the following items mus	st bee attached to the closu	re plan Please indicate,			
Siting Criteria Compliance Demonstrations - based upor	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 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						
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 requ	irements of Subsection G of 19 15 17 13 N	IMAC				

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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) Dollie D Busse Title Staff Regulatory Technician				
Signature ( ) Signature Date 6/21/12				
e-mail address dollie I busse@conocophillips.com Telephone 505-324-6104				
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)				
OCD Representative Signature:  Approval Date: 42/20(2				
Title: OMDIANCE OFFICE OCH Bermit Number:				
21 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 Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)				
If different from approved plan, please explain				
23				
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only				
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 Peimit 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 complilane 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				
24				
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 (surface owier 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				
On-site Closure Location Latitude Longitude NAD 1927 1983				
25				
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				
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				

Form C-144 Oil Conservation Division

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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) 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.