### District I 1625 N French Di , 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

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

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

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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 system, 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
	of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

perator: Burl	lington Resources Oil & Ga	s Company, LP		<u> </u>	OGRI	D#: <b>145</b> 3	38			
ddress: PO I	Box 4289, Farmington, NM	87499	···							
acility or well 1	name: Huerfanito Unit 103	3								
API Number: _	30-045-1	1704		OCD Permit Nu	mber.		· · · · · · · · · · · · · · · · · · ·			
I/L or Qtr/Qtr:	N(SE/SW) Section:	3 Township:	26N	Range:	9W	County:	San Ju	ıan		
enter of Propos	sed Design: Latitude:	36.5126	°N_	Longitude: _	107.7	7895	°W	NAD: [	<b>X</b> 1927	1983
urface Owner:	X Federal	State Private	e 🔲 Tri	bal Trust or Inc	dıan Allotn	nent				
Temporary:	ection F or G of 19.15.17.11 NM Drilling Workover Emergency Cavitatio	_								
Lined	Unlined Liner type	:: Thickness	mil	LLDPE	HDPE	PVC_	Other	·		
String-Rein	forced	_								
Liner Seams.	Welded Factory	Other		Volume.	bbl	Dimension	s L	_ x´W -	x D	
Type of Operat  Drying P. Lined Liner Seams.	rion: P&A Drilli	noi Tanks Haul-off	tice of inte	Drilling (Applient)  Other  LLDPE	s to activitie	s which req	·		of a permit of	
Volume: Tank Construct	<del></del>	Type of fluid:					ľ	200	MOV 20	7 <u>E[</u> <b>09</b> DIST.
	containment with leak detection dewalls and liner m	Visible sidewalls only	walls, liner Oth PVC	, 6-inch lift and a ner Other	automatic ov	erflow shut	-011		CONS. DIV.	W.
	ive Method:	Eventions must be sub-	mitted to th	ne Santa Fe Envi	ronmental B	ureau office		-	<u> </u>	

6 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)				
Peneng: Subsection D of 19.13.17.11 INVIAC (Applies to permanent pa, temporary pas, and below-grade lanks)				
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent revidence, school, hospital, institution or church)				
Four foot height, four strands of barbed wire evenly spaced between one and four feet				
Alternate Please specify				
7				
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	ĺ			
Screen Netting Other				
Monthly inspections (If netting 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:  Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons	ideration of approval			
(Fencing/BGT Liner)	detailor or approvar.			
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.	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells				
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				
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)				
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	LJ'''			
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)				
- 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	☐Yes ☐No			
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.				
NIM OCC f the Cost - Engineer (WATERS details a country Visual improvious (contification) of the propagation	1			
- 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				
Within 500 feet of a wetland.	Yes No			
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
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				
Society; Topographic map				
Within a 100-year floodplain	Yes No			
- FEMA map	1			

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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 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					
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  Contified Engineering Desire Plans - based upon the appropriate requirements of 10.15.17.11 NIMAC					
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					
☐ 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 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 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					
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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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.1 Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings Use attachmare required.		,				
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #. NM-	01-0011 / NM-01-0010B					
Disposal Facility Name: Basın 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 operations?  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 buried waste	Yes	No				
- NM Office of the State Engineer - ¡WATERS database search; USGS: Data obtained 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 - 1WATERS database search; USGS; Data obtained 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 - 1WATERS database search; USGS; Data obtained from nearby wells	│					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, (measured from the ordinary high-water mark).	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	on. 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 well field covered under a municipal ord pursuant to NMSA 1978, Section 3-27-3, as amended.  Weitten confirmation or verification from the municipality. Written approved obtained from the municipality.	linance adopted 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 s	ite	_				
Within the area overlying a subsurface mine.	Yes	No				
<ul> <li>Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division</li> <li>Within an unstable area.</li> </ul>	│ □Yes 「	$\neg_{No}$				
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society;  Topographic map						
Within a 100-year floodplain FEMA map	Yes	No				
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/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						
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						

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19	<del>, </del>				
Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accur	ate and complete to the	best of my knowledge and belief.			
Name (Print). Bhonda Rogers	Title.	Staff Regulatory Technician			
Signature/ Thomas Doch	Date.	11/5/2009			
e-mail address rogerrs@conocoptullios.com	Telephone:	505-599-4018			
	<del></del>				
20					
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)			
OCD Paprocentative Signatures 2	•	11/2/10			
OCD Representative Signature:		Approval Date: 77/50/09			
Title: Enviro/spec	OCD Pern	nit Number:			
21					
Closure Report (required within 60 days of closure completion): Subse					
Instructions: Operators are required to obtain an approved closure plan prior to					
report is required to be submitted to the division within 60 days of the completio approved closure plan has been obtained and the closure activities have been co		s. Please do not complete this section of the form until an			
«грготой стоят с рын нью гест отатей ини те ctosure activities nave been co	_	Completion Date.			
	☐ Closure	e 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 Litilize Above Cr	ound Steel Tanks or Houl-off Rins Only			
Instructions: Please identify the facility or facilities for where the liquids, drilli					
were utilized.		, ,			
Disposal Facility Name:	Disposal Facility	Permit Number.			
Disposal Facility Name:	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 op-	erations:				
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 follo	wing items must be atta	sched 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		Į			
Site Reclamation (Photo Documentation)					
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 spo	•				
Name (Print)	Title:				
rane (FIIII)	Inc				
Signature:	Date <sup>.</sup>				
		,			
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.