District I

1625 N French Dr , Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

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 sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the 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 system, below-grade tank, or proposed alternative method
Please submit one o	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative req

Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
acility or well name: Huerfanito Unit 19R	
API Number: 30-045-29728	OCD Permit Number:
J/L or Qtr/Qtr: A(NENE) Section: 3 Township: 26!	N Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.521130'N	Longitude: 107.770260'W NAD: X 1927 1983
urface Owner: X Federal State 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	" Dupp Dupp Day
	nil LLDPE HDPE PVC Other
String-Reinforced	
Liner Seams: Welded Factory Other	Volume: bbl Dimensions L x W x D
X Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: X P&A Drilling a new well Workove notice of Drying Pad X Above Ground Steel Tanks Haul-off Bins	er or Drilling (Applies to activities which require prior approval of a permit or intent)
Lined Unlined Liner type: Thicknessmi	LLDPE HDPE PVD Other
Liner Seams: Welded Factory Other	
	RECEIVE
Below-grade tank: Subsection I of 19.15.17.11 NMAC	MAY 2009 OIL CONS. DIV. DIST
Volume bbl Type of fluid:	OIL CONS. DIV. DIST
Tank Construction material:	- 100 M. 0151
	liner, 6-inch lift and automatic overflow shut-off
	Other
Liner Type: Thicknessmil HDPE PV	/C Other
Alternative Method:	
	
Submittal of an exception request is required. Exceptions must be submitted	d to the Santa Fe Environmental Bureau office for consideration of approval.
Form C-144 Oil Cons	servation Division Page 1 of 5

6		,		
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 harhed wire at top (Required at located within 1000 test of a permanent residence, school, bosnital, instant	ution or church			
Four foot height, four strands of barbed wire evenly spaced between one and four feet	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)			
Alternate. Please specify				
7				
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)				
^				
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				
A Joighed in compliance with 13/13/3/103 (19/10)				
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 considerations o	leration of ann	roval		
	cration or app	iovai.		
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.				
10				
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	ĺ			
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.		□ No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	∐Yes	Пио		
· · · · · · · · · · · · · · · · · · ·				
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).	∐Yes	□No		
- Topographic map; Visual inspection (certification) of the proposed site				
	l	—		
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	∐NA			
- Visual hispection (certification) of the proposed site, Aeriai photo, Satellite image				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	∐No		
(Applied to permanent pits)	NA			
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image				
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	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 Office of the State Engineer, iWATERS detakes seembly Vigual imposition (configuration) of the proposed site				
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	∐No		
adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 500 feet of a wetland.	Yes	□No		
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Within the area overlying a subsurface mine.	Yes	□No		
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division				
Within an unstable area.	Yes	No		
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological				
Society; Topographic map		_		
Within a 100-year floodplain	Yes	□No		
- FEMA map	1			

Page 2 of 5

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
12
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 (1) 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
Closure Fight - based upon the appropriate requirements of Subsection C of 19.13.17.9 NMAC and 19.13.17.13 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 XP&A Permanent Pit Below-grade Tank X Closed-loop System
Alternative Description of Clasura Matheda (November 2018)
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
1 1 Site regialitation from " pased upon the appropriate requirements of subsection O of 17.13.17.13 INVIAC

Form C-144 Oil Conservation Division Page 3 of 5

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Grou	and Stool Tonks on Houl off Pins Only (10 15 17 12 D NIMAC)		
Instructions Please identify the facility or facilities for the disposal of liquids,			
facilities are required Disposal Facility Name: Envirotech	Disposal Facility Permit #: NM-01-0011		
Disposal Facility Name: Basin Disposal Facility	Disposal Facility Permit #: NM-01-005		
Will any of the proposed closed-loop system operations and associated	<u> </u>	o comice and	
Yes (If yes, please provide the information No		e service and	
Required for impacted areas which will not be used for future service and open Soil Backfill and Cover Design Specification - based upon the a		NMAC.	
Re-vegetation Plan - based upon the appropriate requirements of			
Site Reclamation Plan - based upon the appropriate requirements	of Subsection G of 19 15 17 13 NMAC		
Siting Criteria (Regarding on-site closure methods only: 19 15 17.10 Instructions Each suing criteria requires a demonstration of compliance in the closure peretrain suting criteria may require administrative approval from the appropriate district office for consideration of approval Justifications and/or demonstrations of equivalency	olan Recommendations of acceptable source material are provided belo office or may be considered an exception which must be submitted to the	Santa Fe Environmental Bureau	
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - (WATERS database search; USGS, D		Yes No	
Ground water is between 50 and 100 feet below the bottom of the burie	ed waste	Yes No	
- NM Office of the State Engineer - iWATERS database search; USGS, D	ata obtained from nearby wells	N/A	
Ground water is more than 100 feet below the bottom of the buried wa	ste.	Yes No	
- NM Office of the State Engineer - IWATERS database search, USGS; D	ata obtained from nearby wells	∏N/A	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark)	r significant watercourse or lakebed, sinkhole, 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 chi - Visual inspection (certification) of the proposed site; Aerial photo, satellit	••	Yes No	
		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 w pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approximately approximatel	·	Yes No	
Within 500 feet of a wetland	ovar obtained from the municipanty	Yes No	
- US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual inspection (certification) of the proposed site		
Within the area overlying a subsurface mine		Yes No	
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division			
Within an unstable area.	AMI ID MOCO NING I I I G	Yes No	
 Engineering measures incorporated into the design; NM Bureau of Geolog Topographic map 	gy & Mineral Resources; USGS, NM Geological Society;		
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 cl	osure plan. Please indicate,	
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the ap	propriete requirements of 10 15 17 10 NMAAC		
	• •		
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 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			
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC			
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)			
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 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 Page 4 of 5

19					
Operator Applicat	tion Certification: the information submitted with this ap	nligation is true assurate s	and complete to the bee	t of my knowledge and heliaf	
Name (Print):	Kelly Jeffer		Title:	Regulatory Technicia	n
Signature:			Date	5/13/2009	
e-mail address:	leffekr@conocophil	lins com	Telephone:	505-599-4025	
e-man address:	- Jeneki (@conocoprilii	iips.com_	_ relephone.	303-349-4023	
OCD Representati		g closure plan)	Closure Plan (only)		S-27-09
Title:	Enviro 15 pec		OCD Perm	it Number:	<u> </u>
Instructions: Operato report is required to b	equired within 60 days of closur rs are required to obtain an approve we submitted to the division within 60 is has been obtained and the closure of	d closure plan prior to imp days of the completion of	plementing any closure the closure activities, eted	activities and submitting the cl	-
22	,				
=	ntion and Removal On-si om approved plan, please explain.	ite Closure Method	Alternative Closure N	Method Waste Removal	(Closed-loop systems only)
Instructions: Please is were utilized. Disposal Facility is Disposal Facility is Were the closed-lo		here the liquids, drilling f	Disposal Facility Disposal Facility Tin areas that will not	were disposed. Use attachme Permit Number: Permit Number:	nt if more than two facilities
Required for impa Site Reclamat Soil Backfilli	cted areas which will not be used for ition (Photo Documentation) and Cover Installation Application Rates and Seeding Tech	future service and operat			
24					
Closure Report the box, that the d Proof of Clo Proof of Det Plot Plan (for Confirmation Waste Mater Disposal Far Soil Backfil Re-vegetation Site Reclam	Attachment Checklist: Instructional Comments are attached. Insure Notice (surface owner and comments are attached). Insure Notice (required for on-site closures and temporary in Sampling Analytical Results (it rial Sampling Analytical Results callity Name and Permit Number ling and Cover Installation in Application Rates and Seeding atton (Photo Documentation). Sure Location: Latitude:	division) osure) pits) f applicable) (if applicable)	ng items must be attact	hed to the closure report. Plea	se indicate, by a check mark in
the closure complies		•		·	owledge and belief I also certify that
Name (Print):			Title:	, <u>, , , , , , , , , , , , , , , , , , </u>	
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). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) on a periodic basis to prevent over topping.
- 2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
- 3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately

Closed-loop Closure Plan

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.