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

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
emporary pits, closed-loop sytems, and below-grade

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

220 S St Francis Dr , Santa Fe, NM 87505		appropria	te NMOCD District Office	
3858	Pit, Closed-Loop System, Below-Grade Tank, or			
$\underline{Pro}$	posed Alternative Method	Permit or Closure Pla	n Application	
Type of action:	Permit of a pit, closed-loop sys  Closure of a pit, closed-loop sy  X Modification to an existing per	rstem, below-grade tank, or promit	oposed alternative metho	od
	Closure plan only submitted fo below-grade tank, or proposed	- ·	permitted pit, closed-loc	op system,
Instructions: Please submit one	application (Form C-144) per indivi		below-grade tank or alt	ernative request
•••	d of this request does not relieve the operator of helieve the operator of its responsibility to comply	•		
Operator: Burlington Resources (	Oil & Gas Company, LP	OGRID#	#: <b>14538</b>	
Address: PO Box 4289, Farming	on, NM 87499			
acility or well name: San Juan 2	7-4 Unit 154M	<del></del>		
API Number:	30-039-30486	OCD Permit Number:		
	tion: 14 Township: 27N	Range: 4W	County: San Juan	
Center of Proposed Design: Latitude urface Owner: X Federal		Longitude: 107.221  Tribal Trust or Indian Allotmer		1927 <b>X</b> 1983
Lined Unlined  String-Reinforced  Liner Seams Welded	Liner type. Thickness mil		PVC Otherx W	x D
Type of Operation: P&A  Drying Pad Above Gro	ction H of 19.15.17.11 NMAC  Drilling a new well Workover of notice of in ound Steel Tanks Haul-off Bins ner type: Thickness mil  Factory Other	Other	PVD Other	18910117273
Volume.  Tank Construction material	bbl Type of fluid:		11	MIS 2003 OIL CONS. DIV. DIST.
Secondary containment with leak of Visible sidewalls and liner  Liner Type: Thickness		er, 6-inch lift and automatic overlether  Other	low shut-off	929241EU
Alternative Method:  Submittal of an exception request is re	equired. Exceptions must be submitted to	the Santa Fe Environmental Bure	eau 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, inst.  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify	ttution or chur	ch)
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:  X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Cavitation pit for Pre-set)  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	proval.
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 - iWATERS 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.	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; Acrial photo; Satellite image	☐Yes ☐NA	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 Society; Topographic map	Yes	No
Within a 100-year floodplain - FEMA map	Yes	No

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17.9 NMAC
Instructions. Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17 9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17 9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API
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
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
Previously Approved Operating and Maintenance Plan API
The read of the state of the st
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 of 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 X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method. Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15 17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17 13 NMAC

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Groun	d Steel Tenks on Hout off Bins Only (10.15.17	7.12 D NIMAC)			
Waste Removal Closure For Closed-100p Systems That Offize Above Groun Instructions Please identify the facility or facilities for the disposal of liquids, di are required.	d Steel Tanks of Haul-off Bins Only: (19.15 Fa- illing fluids and drill cuttings. Use attachment is	7.13 D NMAC) if more than two facilities			
Disposal Facility Name Envirotech	Disposal Facility Permit # NM-01-0	0011			
Disposal Facility Name. Basin Disposal Facility	Disposal Facility Permit # NM-01-0				
Will any of the proposed closed-loop system operations and associated ac  Yes (If yes, please provide the information No	tivities occur on or in areas that will not be u	used for future service and operations?			
Required for impacted areas which will not be used for future service and opera  Soil Backfill and Cover Design Specification - based upon the app Re-vegetation Plan - based upon the appropriate requirements of S  Site Reclamation Plan - based upon the appropriate requirements of	ropriate requirements of Subsection H of 19 ubsection I of 19.15 17.13 NMAC	) 15.17.13 NMAC			
17					
Siting Criteria (Regarding on-site closure methods only: 19.15.17 10 instructions: Each siting criteria requires a demonstration of compliance in the closure pertain siting criteria may require administrative approval from the appropriate district for consideration of approval Justifications and/or demonstrations of equivalency are r	olan Recommendations of acceptable source material office or may be considered an exception which must i	t be submitted to the Santa Fe Environmental Bureau office			
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No			
- NM Office of the State Engineer - 1WATERS database search; USGS: Dat	a obtained from nearby wells	∐N/A			
Ground water is between 50 and 100 feet below the bottom of the buried		Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS, Data	obtained from nearby wells	ŬN/A			
Ground water is more than 100 feet below the bottom of the buried waste	- shrawed Co.	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data	·	│ ∐N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other s (measured from the ordinary high-water mark).  - Topographic map, Visual inspection (certification) of the proposed site	ignificant watercourse or lakebed, sinkhole, or pl	olaya lake Yes No			
Within 300 feet from a permanent residence, school, hospital, institution, or chur	ch in existence at the time of initial application	Yes No			
- Visual inspection (certification) of the proposed site; Aerial photo; satellite	**				
		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 with pursuant to NMSA 1978, Section 3-27-3, as amended	·	nce adopted Yes No			
<ul> <li>Written confirmation or verification from the municipality; Written approve</li> <li>Within 500 feet of a wetland</li> </ul>	al obtained from the municipality	∏Yes ∏No			
- US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l inspection (certification) of the proposed site				
Within the area overlying a subsurface mine.		Yes No			
<ul> <li>Written confirantion or verification or map from the NM EMNRD-Mining Within an unstable area.</li> </ul>	and Mineral Division	│			
- Engineering measures incorporated into the design; NM Bureau of Geology	& Mineral Resources; USGS; NM Geological So				
Topographic map Within a 100-year floodplain.					
- FEMA map		Yes No			
18					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: It by a check mark in the box, that the documents are attached.	Each of the following items must bee attach	hed to the closure plan. Please indicate,			
Siting Criteria Compliance Demonstrations - based upon the appro					
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Construction/Design Plan of Rurial 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 burnal 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					
X 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					

19				
Operator Application  Thereby certify that the	in Certification: information submitted with this application is true, ac	ecurate and complete to the b	pest of my knowledge and belief	
Name (Print)	Tamra Sessions	Title	Staff Regulatory Technician	
Signature.	- Tambesin	Date.	8-6-09	
e-mail address	tamra.d.sessions@conocophillips.com	Telephone:	505-326-9834	
20	75	7	Magagina	
_	Permit Application (including closure plan)		OCD Conditions (see attachment)	
OCD Representative	e Signature:	M	Approval Date:	
Title:	Enviro Spec	OCD Perm	it Number:	
				J
Instructions, Operators report is required to be		r to implementing any closus etion of the closure activities a completed	re activities and submitting the closure report. The closure Please do not complete this section of the form until an	
		Closure	Completion Date:	
22 Classic Mathada				
Closure Method:	on and Removal On-site Closure Method	Alternative Closure I	Method Waste Removal (Closed-loop systems only)	
1 🗏	a approved plan, please explain.		Waste Removal (closed loop systems only)	į
<u> </u>	approve part, press or part			
23 Closure Report Regard	ding Waste Removal Closure For Closed-loop Syste	ems That Utilize Above Gro	ound Steel Tanks or Haul-off Bins Only:	•
	entify the facility or facilities for where the liquids, d	rilling fluids and drill cuttin	gs were disposed. Use attachment if more than two facilities	}
were utilized. Disposal Facility Na	me:	Disposal Facility l	Permit Number	
Disposal Facility Na		Disposal Facility l		
	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, plea	ise demonstrate complilane to the items below)	No		
	ed areas which will not be used for future service and	operations:		ĺ
	n (Photo Documentation) and Cover Installation			}
<u>                                   </u>	application Rates and Seeding Technique		•	
24				
Closure Report A		ollowing items must be attac	hed to the closure report. Please indicate, by a check mark in	
	cuments are attached.			l
_	re Notice (surface owner and division)  Notice (required for on-site closure)			
· =	on-site closures and temporary pits)			
	Sampling Analytical Results (if applicable)			
=	1 Sampling Analytical Results (if applicable)			
Disposal Facili	ity Name and Permit Number			}
Soil Backfillin	g and Cover Installation			
Re-vegetation	Application Rates and Seeding Technique			
	on (Photo Documentation)			l
On-site Closur	e Location Latitude:	Longitude.	NAD   1927   1983	
25 Operator Closure Co	ertification:			}
I hereby certify that the			and complete to the best of my knowledge and belief. I also certionsure plan.	ify that
Name (Print):	-	Title:		
Signature:		Date:		
e-mail address:		Telephone:		

## Burlington Resources Oil & Gas Company, LP Cavitation Pit for Closed-Loop Locations

## Design:

Burlington Resources Oil & Gas Company, LP will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations. The drill cuttings will be stockpiled on the surface.

## **Operations and Maintenance:**

The cavitation pit will be operated and maintained as follows:

1. A five point composite sample will be taken of the drill cuttings using sampling tools and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e.

Components	Tests Method	Limit (mg/Kg)	
Benzene	EPA SW-846 8021B or 8260B	0.2	
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	500	
Chlorides	EPA 300.1	500	

2. The NMOCD will be notified via email of the test results of the cavitation surface as follows:

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	500	
Chlorides	EPA 300.1	500	

## Closure Plan:

- 1. The NMOCD will receive notice 3 days prior to the drill cuttings being distributed on location.
- 2. In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005).
- 3. Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144.