### District 1

1625 N French Dr., Hobbs, NM 88240

District II

1301 W Grand Ave , Artesia, NM 88210

District 111

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:	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
	X 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

Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution of surface water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance

Degrator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	THOSE THOSE
Facility or well name: San Juan 27-4 Unit 154M	
API Number: 30-039-30486	OCD Permit Number:
U/L or Qtr/Qtr: F(SE/NW) Section: 14 Township Center of Proposed Design: Latitude: 36.576091 Surface Owner: X Federal State P	rivate Tribal Trust or Indian Allotment County: San Juan  San Juan
X   Pit: Subsection F or G of 19 15 17 11 NMAC     Temporary:	(Pre-set) mil LLDPE HDPE PVC Other  Volume: bbl Dimensions L x W x D
	AC  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  ul-off Bins  Other  HDPE  PVD  Other  RECEIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:	sidewalls, liner, 6-inch lift and automatic overflow shut-off Only Other
5 Alternative Method: Submittal of an exception request is required Exceptions must be	e submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division Page 1 of 5

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 baibed wire at top (Required if located within 1000 feet of a permanent residence, scl.  Four foot height, four strands of baibed wire evenly spaced between one and four feet  Alternate. Please specify	ool, hospital, institution or church)
Netting: Subsection E of 19.15.17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Scien 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 Bure (Cavitation pit for Pre-set)  Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	au office foi 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 a source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval fro appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Officonsideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting does not apply to drying pads or above grade-tanks associated with a closed-loop system.	om the fice for
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  Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, of 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 in application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applied to permanent pits)	□ 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 st purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	ock watering Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed sit Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal or adopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposition the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul>	Yes No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Go 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 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
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
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 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

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Gro	ound Steel Tanks or Haul-off Bins Only; (19 15.17.13.D NMAC)	
Instructions Please identify the facility or facilities for the disposal of liquids are required.	r, drilling fluds and drill cuttings. Use attachment if more than two fo	ıcılıties
Disposal Facility Name Envirotech	Disposal Facility Permit #: NM-01-0011	<u> </u>
Disposal Facility Name. Basin Disposal Facility	Disposal Facility Permit #: NM-01-005	
Will any of the proposed closed-loop system operations and associated Yes (If yes, please provide the information No	activities occur on or in areas that will not be used for future se	ervice and operations?
Required for impacted areas which will not be used for future service and op  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of  Site Reclamation Plan - based upon the appropriate requirements	appropriate requirements of Subsection H of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC	2
17		
Siting Criteria (Regarding on-site closure methods only: 19.15 17. Instructions Each sting criteria requires a demonstration of compliance in the closi certain siting criteria may require administrative approval from the appropriate dist for consideration of approval. Justifications and/or demonstrations of equivalency a	are plan Recommendations of acceptable sow ce material are provided belovered. The office or may be considered an exception which must be submitted to the	
Ground water is less than 50 feet below the bottom of the buried waste	».	Yes No
- NM Office of the State Engineer - IWATERS database search, USGS	Data obtained from nearby wells	□N/A
Ground water is between 50 and 100 feet below the bottom of the buri	ed waste	Yes No
- NM Office of the State Engineer - iWATERS database search, USGS; I	Data 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 - tWATERS database search; USGS; I		□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any oth (measured from the ordinary high-water mark)	er 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 c - Visual inspection (certification) of the proposed site; Aerial photo; satell	**	YesNo
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring th purposes, or within 1000 horizontal fee of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection	g, in existence at the time of the initial application	!
Within incorporated municipal boundaries or within a defined municipal fres pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written app		Yes No
Within 500 feet of a wetland	To the continued from the mannerpainty	∏Yes ∏No
- US Fish and Wildlife Wetland Identification map; Topographic map; V	isual inspection (certification) of the proposed site	ليسبيا
W1thin the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNRD-Min	ing and Mineral Division	
Within an unstable area.	ANG TRANSPORTER	∐Yes ∐No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geol Topographic map</li> </ul>	logy & Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
18		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions by a check mark in the box, that the documents are attached.	s: Each of the following items must bee attached to the closur	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the ap	propriate requirements of 19.15 17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate re	quirements of Subsection F of 19.15 17.13 NMAC	
Construction/Design Plan of Burnal Trench (if applicable) base	d upon the appropriate requirements of 19 15.17.11 NMAC	
L	of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
X Protocols and Procedures - based upon the appropriate requirer		
Confirmation Sampling Plan (if applicable) - based upon the ap		
X Waste Material Sampling Plan - based upon the appropriate rec	•	. 1 . 1
	g fluids and drill cuttings or in case on-site closure standards can	anot be achieved)
Soil Cover Design - based upon the appropriate requirements o  Re-vegetation Plan - based upon the appropriate requirements of		
Site Reclamation Plan - based upon the appropriate requirement		

19		
Operator Application Certification:  I hereby certify that the information submitted with this application is true, ac	ecurate and complete to the F	nest of my knowledge and helicf.
Name (Print) Tamra Sessions	Title	Staff Regulatory Technician
Signature Tomberin	Date	8-6-00
e-mail address tamra d.sessions@conocophillips.com	Telephone	505-326-9834
C man address		303 343 703 1
OCD Representative Signature:  Title:  Permit Application (including closure plan)  Permit Application (including closure plan)  Shall to Specific (Specific Plane)		ØCD Conditions (see attachment)  Approval Date: 8-11-09
Title: Enviro/spec	OCD Perm	it Number:
Closure Report (required within 60 days of closure completion): s Instructions. Operators are required to obtain an approved closure plan prior report is required to be submitted to the division within 60 days of the comple approved closure plan has been obtained and the closure activities have been	or to implementing any closuretion of the closure activities or completed.	re activities and submitting the closure report. The closure
22		
Closure Method:  Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Syste Instructions: Please identify the facility or facilities for where the liquids, d were utilized.		
Disposal Facility Name	Disposal Facility	Permit Number:
Disposal Facility Name:	Disposal Facility	
Were the closed-loop system operations and associated activities performe	ed on or in areas that will no	t be used for future service and opeartions?
Yes (If yes, please demonstrate complilane to the items below)	□No	
Required for impacted areas which will not be used for future service and  Site Reclamation (Photo Documentation)	l operations:	
Soil Backfilling and Cover Installation		•
Re-vegetation Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the for the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (if applicable)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude:	ollowing items must be attained to the latter of the latte	ched to the closure report. Please indicate, by a check mark in  NAD 1927 1983
25		
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this clos the closure complies with all applicable closure requirements and conditions		
Name (Print):	Title:	t
Signature:	Date:	
e-mail address:	. Telephone	·

Form C-144

# 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.