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

June 16, 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.

# 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
r	

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 habit environment. Nor does approval relieve the operator of its responsibility to comply with the complex of the comple	
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499	RCVD JUL 15 '08
Facility or well name: San Juan 32-9 unit #277	OIL CONS. DIV.
API Number: 30-045-28014 OC	CD Permit Number: DIST. 3
U/L or Qtr/Qtr: N(SESW) Section: 30 Township: 32N	Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.95155' N L	Longitude: 107.82341' W NAD: X 1927 1983
Surface Owner: X Federal State Private Triba	al Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	X Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling Workover	Drying Pad X Tanks Haul-off Bins Other:
Permanent Emergency Cavitation	Lined Unlined
Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC
Liner type: Thickness mil LLDPE HDPE PVC	Other:
Other String-Reinforced	Seams: Welded Factory Other:
Seams: Welded Factory Other	Volume: 500 bbl 104 yd3
Volume:bbl Dimensions: LxWxD	Dimernsions: Length 45' x Width 10'
Below-grade tank: Subsection I of 19 15.17 11 NMAC	Fencing: Subsection D of 19 15.17.11 NMAC
Volume:bbl	Chain link, six feet in height, two strangs of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between
Tank Construction Material:	one and four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
Visible sidewalls and liner	Monthly inspections
Visible sidewalls only	Signs: Subsection C of 19 15.17.11 NMAC
Other:	12"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness: mil HDPE PVC	emergency telephone numbers
Other:	X Signed in compliance with 19.15.3.103 NMAC
Alternative Method:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be	Justifications and/or demonstrations of equivalency are required. Please
submitted to the Santa Fe Environmental Bureau office for consideration	refer to 19.15.17 NMAC for guidance.
of approval.	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 or the Santa Fe Environmental Bureau office for consideration of approval. (Fencing in Design Plan)
	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 - 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.	□Yes	□No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA	
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	Yes	□No
<ul> <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 proposed site</li> </ul>	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	Yes	∏No
- FEMA map		
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 d	ocuments ar	e 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 Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	NMAC	
Previously Approved Design (attach copy of API Number: 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 attached.  Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.10 NMAC	0.15.17.9	re
Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 N    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	IVIAC	
X Closure Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  X Closure Plan - 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 API Number:		

Permanent Pits Permit Application Checkist: 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 to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please indicate, by a check mark in the box, that the documents are attached to the application. Please dupon the appropriate requirements of 19.15.17.11 NMAC please and possible protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC please and possible protection and Construction and Installation Plan protection and Maintenance Plan please and possible protection Plan protection Plan please and possible protection Plan prote	tached.
Proposed Closure: 19.15.17.13 NMAC  Type: Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank X Closed-loop System Alter	native
Proposed Closure  X Waste Excavation and Removal  On-site Closure Method (only for temporary pits and closed-loop  In-place On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau f	
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. Recommentations 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. Justification 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.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐Yes☐No ☐NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database serach; USGS; Data obtained from nearby wells	☐Yes☐No ☐NA
Ground water is more than 100 feet below the bottom of the buried waste.  - 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 lal (measured from the ordinary high-water mark).	∏Yes ∏No
<ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐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 feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	∏Yes ∏No
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	☐Yes ☐No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland. 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

	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 indicfate, by a check mark in the box, that the documents are attached.				
<ul> <li>✓ Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 NMAC</li> <li>✓ Confiramtion Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC</li> </ul>				
Confirmation Sampling Plan (it applicable) - based upon the appropriate requirements of Subsection F of 19.13 17.13 NotAC      Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)				
Soil Backfill and Cover Design Specifications - based upon the appro				
X Re-vegetation Plan - based upon the appropriate requirements of Sub				
X Site Reclamation Plan - based upon the appropriate requirements of S				
Waste Removal Closure for Closed-loop Systems That Utilize Haul-off facilities for the disposal of liquids, drilling fluids and drill cuttings.	Bins Only: (19 15 17 13 D NMAC) Instructions: Please identify the facility or			
Disposal Facility Name: Envirotech, Basin Disposal	Disposal Facility Permit Number. NM-01-0011 & NM-01-005			
On-Site Closure Plan Checklist: (19 15 17.13 NMAC) Instructions: Each of the check mark in the box, that the documents are attached.	e following tiems must bee attached to the closure plan. Flease thatcale, by a			
Siting Criteria Compliance Demonstrations - based upon the appropr	late requirements of 19 15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate requirer	·			
Construction and Design of Burial Trench (if applicable) based upon	the appropriate requirements of 19.15.17.11 NMAC			
Protocols and Procedures - based upon the appropriate requirements				
Confirmation Sampling Plan (if applicable) - based upon the appropr	iate requirements of Subsection F of 19.15.17 13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirem	ients of Subsection F of 19.15.17.13 NMAC			
Disposal Facility Name and Permit Number (for liquids, drilling fluid	ls and drill cuttings or in case on-site closure standards cannot be			
Soil Cover Design - based upon the appropriate requirements of Subs				
Re-vegetation Plan - based upon the appropriate requirements of Sub				
Site Reclamation Plan - based upon the appropriate requirements of S				
Operator Application Certification:				
I hereby certify that the information submitted with this application is true, accura	ate and complete to the best of my knowledge and belief			
Name (Print): Crystal Tafoya	Title. Regulatory Technician			
110-				
Signature Imptal / apria	Date 7/14/2008			
e-mail address: crystal.tafoya@conocoohillips.com	Telephone: 505-326-9837			
OCD Approval: Permit Application (including closure plan)  OCD Representative Signature: Self-Self-Self-Self-Self-Self-Self-Self-				
	<u> </u>			
	<u> </u>			
OCD Representative Signature: Bloom Signature: Title: Fruiro 150ec	Approval Date: 7-15-08  OCD Permit Number			
OCD Representative Signature:	Approval Date: 7-15-08  OCD Permit Number 5 17 13 NMAC			
OCD Representative Signature: B. S. S. S. Title: F. N. 1015 P. C. S.	Approval Date: 7-15-08  OCD Permit Number			
OCD Representative Signature: B. S. S. S. Title: F. W. To S.	Approval Date: 7-15-08  OCD Permit Number  5 17 13 NMAC Closure Completion Date:			
OCD Representative Signature: B. Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal On-Site Closure A	Approval Date: 7-15-08  OCD Permit Number  5 17 13 NMAC			
OCD Representative Signature: B. S. S. S. Title: F. W. To S.	Approval Date: 7-15-08  OCD Permit Number  5 17 13 NMAC Closure Completion Date:			
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OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal  On-Site Closure  A  Closure Report Attactment Checklist: Instructions: Each of the following itembox, that the documents are attached.	Approval Date: 7-15-08  OCD Permit Number  5 17 13 NMAC Closure Completion Date:			
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OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal On-Site Closure A  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following iter box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 Latitude:	Approval Date: 7-15-08  OCD Permit Number  S 17 13 NMAC Closure Completion Date:  Ilternative Closure  Ins must be attached to the closure report. Please indicate, by a check mark in the  Longitude. NAD. 1927 1983			
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OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal On-Site Closure A  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following iter box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 Latitude:  Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is a	Approval Date: 7-15-08  OCD Permit Number  S17 13 NMAC Closure Completion Date:  Iternative Closure  Iternative Closure  Iternative Closure  Iternative Closure  Iternative Closure  Ins must be attached to the closure report. Please indicate, by a check mark in the  Longitude. NAD. 1927 1983  True, accurate and complete to the best of my knowledge and belief. I also certify that the			
Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following iter box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  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  Latitude:  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is a closure complies with all applicable closure requirements and conditions specified in the a	Approval Date: 7-15-08  OCD Permit Number  517 13 NMAC Closure Completion Date:  Ilternative Closure  Ins must be attached to the closure report. Please indicate, by a check mark in the  Longitude. NAD. 1927 1983  True, accurate and complete to the best of my knowledge and belief I also certify that the pproved closure plan			
Closure Report (required within 60 days of closure completion): Subsection K of 19 1:  Closure Method:  Waste Excavation and Removal On-Site Closure A  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following iter box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  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  Latitude:  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is closure complies with all applicable closure requirements and conditions specified in the a Name (Print).	Approval Date: 7_15_08  OCD Permit Number  5 17 13 NMAC Closure Completion Date:  Ilternative Closure  Ins must be attached to the closure report. Please indicate, by a check mark in the  Longitude: NAD. 1927 1983  True, accurate and complete to the best of my knowledge and belief I also certify that the pproved closure plan  Title:			

Submit to Appropriate -District Office
State Losse - 4 course
For Losse - 3 copus

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-162 Reviews 1-1-89

DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II P.O. Down DD. Arens, NM \$8210 Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Besses Rd., Aziec, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

N 30 32 North 9 West Markey South 1160 Me tempt South 1160 Me temp	SECTION .				40.00	(	SF-078	3509)	Well No.
N 30 32 North 9 West Markey South 1160 Me tempt South 1160 Me temp		an Oil I	nc.		San	Juan 32-9	Unit		277
The state of the second part   The state of the state o	N	30	1	rth		st	NMPM	500	ı Ju <b>an</b>
Freedom of Section 1997   1997						700		'7	
1. Ordina to a company administrat to the response well by concern peace or becomes measure on the pair below.  1. If the content of the response well by concern peace or becomes measure on the pair below.  1. If the content of the response well by concern peace or becomes measure or and a pair below.  1. If the content of the response well by concern peace or becomes measure or and the response of the content peace or the pair below or the content peace or the pair bear or content peace or the content peace or the content peace or the content peace or the pair bear or the pair were peace o		es from the	outn	ine and	-	190	feet from	1/8:	
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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). 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
- 4. All of the above operations will be inspected and a log will be signed and dated. During rig operations the inspection will be daily.

#### **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.