<u>District I</u>

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

 $\label{eq:July 21, 2008} I uly \ 21, \ 2008$  For temporary pits, closed-loop systems, 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

Environmental Bureau office and provide a copy to appropriate NMOCD District Office

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application  Type of action:    Variable   Var
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 liability should operations result in pollution of surface water, ground water or the environment Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: SAN JUAN 30-6 UNIT 462S
API Number: 30-039-29404 OCD Permit Number  U/L or Qtr/Qtr: E(SW/NW) Section: 12 Township: 30N Range: 7W County: Rio Arriba  Center of Proposed Design: Latitude: 36.829383 °N Longitude: 107.527455 °W NAD: X 1927 1983  Surface 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  Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other  String-Reinforced  Liner Seams Welded Factory Other Volume bbl Dimensions L x W x D
Subsection H of 19 15 17 11 NMAC   Type of Operation   X P&A
Below-grade tank: Subsection I of 19 15 17 11 NMAC  Volume bbl Type of fluid  Tank Construction material  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner Type Thickness mil HDPE PVC Other
Alternative Method:  Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau 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	titution or chur	ch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify		
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:  Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration.  (Fencing/BGT Liner).  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	□N <sub>0</sub>
(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. Aerial 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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design, NM Burcau of Geology &amp; Mineral Resources; USGS; NM Geological Society, Topographic map</li> </ul>	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 or Permit					
12					
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					
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  Manitoring and Ingressing Plan					
☐ 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					
1 11 1					
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					
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)					
15 West Francisco and Decision					
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					

Form C-144 Oil Conservation Division Page 3 of 5

16 Waste Removal Closure For Clo	osed-loop Systems That Utilize Above Ground Ste	el Tanks or Haul-off Bins On	<u>ılv:</u> (19 15 17 13 D NMAC)				
Instructions Please identify the for	aculity or facilities for the disposal of liquids, drilling	g fluids and drill cuttings Use	attachment if more than two				
	nvirotech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	)10B			
Disposal Facility Name Ba		Disposal Facility Permit #	NM-01-005	<del></del>			
	d-loop system operations and associated activiti	es occur on or in areas that v	will not be used for future	service and			
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 fe	eet below the bottom of the buried waste			Yes No			
- NM Office of the State Eng	gineer - iWATERS database search, USGS Data obt	amed from nearby wells		∐N/A			
Ground water is between 50 ar	nd 100 feet below the bottom of the buried wast	e		Yes No			
- NM Office of the State Eng	nneer - 1WATERS database search, USGS, Data obt	ained 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 Eng	neer - iWATERS database search, USGS, Data obt	ained from nearby wells		□N/A			
Within 300 feet of a continuously (measured from the ordinary high-	flowing watercourse, or 200 feet of any other signifi- water mark)	cant watercourse or lakebed, su	nkhole, or playa lake	Yes No			
- Topographic map, Visual in	spection (certification) of the proposed site						
	residence, school, hospital, institution, or church in on) of the proposed site, Aerial photo, satellite image		pplication	Yes No			
				Yes No			
purposes, or within 1000 horizont	wate, domestic fresh water well or spring that less the al fee of any other fresh water well or spring, in exist neer - iWATERS database, Visual inspection (certifi	tence at the time of the initial ap					
Within incorporated municipal bor pursuant to NMSA 1978, Section	undaries or within a defined municipal fresh water w 3-27-3, as amended	ell field covered under a munici	ipal ordinance adopted	Yes No			
- Written confirmation or veri Within 500 feet of a wetland	ification from the municipality, Written approval obtain	ained from the municipality		□Yes □No			
	and Identification map, Topographic map, Visual insp	pection (certification) of the pro	posed site	∐Yes ∐No			
Within the area overlying a sub		, , , ,		Yes No			
- Written confiramtion or veri	fication or map from the NM EMNRD-Mining and M	Ameral Division					
Within an unstable area				Yes No			
<ul> <li>Engineering measures incorp</li> <li>Topographic map</li> </ul>	porated into the design, NM Bureau of Geology & M	Imeral Resources, USGS, NM	Geological Society,				
Within a 100-year floodplain - FEMA map				Yes No			
18							
	list: (19 15 17 13 NMAC) Instructions: Each that the documents are attached.	of the following items mus	st bee attached to the closs	re plan. Please indicate,			
	ince Demonstrations - based upon the appropria	•					
Proof of Surface Owner	Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17.13 NMAC						
=	an of Burial Trench (if applicable) based upon						
=	an of Temporary Pit (for in place burial of a dry		opropriate 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)							
	· · · · =	_		annot be acmeved)			
=	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							

Form C-144 Oil Conservation Division Page 4 of 5

19 Oppositor Application Contification	
Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief	
Name (Print) CRYSTAL TAFOYA Title STAFF REGULATORY TECHNICIAN	
Signature Date Date	
e-mail address <u>crystal tafoya@conocopyillips com</u> Telephone (505) 326-9837	
20 OCD Approval: Permit Application (including Alosure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date:Approval Date:	
Title: OCD Permit Number:	
21 Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC	
Instructions Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure	
report is required to be submitted to the division within 60 days of the completion of the closure activities Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed	
Closure Completion Date:	
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 Utilize Above Ground Steel Tanks or Haul-off Bins Only:	
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.	
Disposal Facility Name Disposal Facility Permit Number	
Disposal 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 complilane to the items below)	
Required for impacted areas which will not be used for future service and operations	
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 following items must be attached 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	
Site Reclamation (Photo Documentation)	
On-site Closure Location Latitude Longitude NAD 1927 1983	
Opening Classic Classic Control	
Operator Closure Certification:  1 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 1 also certify that	1
the closure complies with all applicable closure requirements and conditions specified in the approved closure plan	•
Name (Print) Title	
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) 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.