1625 N French Dr , Hobbs, NM 88240

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd, Aztec, NM 87410

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

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action:  X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
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  Address: PO Box 4289, Farmington, NM 87499  Facility or well name: HALE 351
API Number: 30-045-27649 OCD Permit Number.  U/L or Qtr/Qtr: K(NE/SW) Section: 34 Township: 31N Range: 8W County: San Juan  Center of Proposed Design: Latitude: 36.852117 °N Longitude: 107.666383 °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
3   X   Closed-loop System:   Subsection H of 19.15.17.11 NMAC   Type of Operation   X   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Below-grade tank: Subsection I of 19 15 17 11 NMAC  Volumebbl
l'

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, institution or church)  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 of approval (Fencing/BGT Liner)  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)	∐NA				
<ul> <li>Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> </ul>		Пма			
(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 Bureau 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 19.15.17.17 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					
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 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 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)					
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.  Places indicate by a check work in the box, that the documents are attached.					
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 Ground Steel Tanks or Haul-off Bins Only: (19 15 17.13 D NMAC)							
Instructions Please identify the facilities are required	ne facility or facilities for the disposal of liquids, drillin	ng fluids and drill cuttings Use	allachment if more than two				
Disposal Facility Name	Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit #		)10B			
Disposal Facility Name.	Basın Dısposal Facility	Disposal Facility Permit #	NM-01-005				
	osed-loop system operations and associated activited rovide the information No	ties occur on or in areas that i	vill 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							
Site Reciamation Pla	an - based upon the appropriate requirements of Si	dibsection G of 19 13 17 13 N	IMAC				
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions, Each siting criteria requires a demonstration of comphance 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.							
	0 feet below the bottom of the buried waste Engineer - iWATERS database search, USGS Data ob	otained from nearby wells		∐Yes			
Ground water is between 50	and 100 feet below the bottom of the buried was	te		∏Yes ∏No			
	Engineer - (WATERS database search, USGS, Data ob			□N/A			
	100 feet below the bottom of the buried waste	4d G		Yes No			
- NM Office of the State i	Engineer - iWATERS database search; USGS, Data ob	tamed from nearby wens		∐N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)			∐Yes ∐No				
	il inspection (certification) of the proposed site						
•	nent residence, school, hospital, institution, or church in cation) of the proposed site; Aerial photo, satellite imag	· ·	oplication	∐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 - tWATERS database, 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			∐Yes ∐No				
pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland - US Fish and Wildlife We	d etland Identification map, Topographic map; Visual ins	pection (certification) of the prop	posed site	Yes No			
Within the area overlying a	subsurface mine. verification or map from the NM EMNRD-Mining and I	Mineral Division		Yes No			
Within an unstable area	retification of map from the 14th Ethicker-triming and i	Willierun Division		Yes No			
	corporated into the design, NM Bureau of Geology & N	Imeral Resources, USGS; NM (	Geological Society,				
Within a 100-year floodplai - FEMA map	n			Yes No			
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.							
· —	•	ate requirements of 19 15 17 i	10 NMAC				
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC							
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC							
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15.17 11 NMAC							
Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC							
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC							
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17.13 NMAC							
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)							
=	based upon the appropriate requirements of Subse						
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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19					
Operator Application C					
	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	Constal Japana Date 6/2/2011				
e-mail address	crystal.tafoya@conocophilles com Telephone. (505) 326-9837				
OCD Approval:	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)				
OCD Approvat.		0.1			
OCD Representative Si	Signature: Approval Date: 6/14/2	<u>10011</u>			
Title: (2004)					
Title:	OCD Permit Number:				
21					
Closure Report (requir	uired within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC				
	are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The				
1	submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form in has been obtained and the closure activities have been completed.	ıtıl an			
Sproved control puntitus					
	Closure Completion Date:				
22					
Closure Method:					
Waste Excavation a	on and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop system	ns only)			
If different from ap	approved plan, please explain				
23					
	ding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:				
1	entify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than tw	vo facilities			
were utilized.	Discount Facility Description				
Disposal Facility Name		<del></del>			
Disposal Facility Name.	Disposal Facility Permit Number.  o system operations and associated activities performed on or in areas that will not be used for future service and operations?	<del></del>			
l ` '	ise demonstrate compilating to the items below)				
- ` ` '	,				
1 —	ed areas which will not be used for future service and operations: n (Photo Documentation)				
· =	and Cover Installation				
Re-vegetation Appl	pplication Rates and Seeding Technique				
24					
	ttachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a cl	heck mark in			
the box, that the docum					
Proof of Closure	re Notice (surface owner and division)				
Proof of Deed No	Notice (required for on-site closure)				
Plot Plan (for on-	on-site closures and temporary pits)				
Confirmation San	Sampling Analytical Results (if applicable)				
Waste Material S	l Sampling Analytical Results (if applicable)				
Disposal Facility	ity Name and Permit Number				
Soil Backfilling a	g and Cover Installation				
Re-vegetation Ap	Application Rates and Seeding Technique				
Site Reclamation	on (Photo Documentation)				
On-site Closure L	e Location. Latitude Longitude: NAD 1927	1983			
25					
Operator Closure Cert	ertification:				
	information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief	f 1 also certify that			
the closure complies with a	th all applicable closure requirements and conditions specified in the approved closure plan				
Name (Print)	Title				
Signature Date					
e-mail address.	Telephone:				
· · · · · · · · · · · · · · · · · · ·					

Oil Conservation Division

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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 fluid 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.