District I 1625 N French Dr , Hobbs, NM 88240

1301 W Grand Ave , Artesia, NM 88210

District III 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

> Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 July 21, 2008

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

District IV 1220 S St Francis Dr , Santa Fe, NM 87505			appropriate NMOCD Dist	trict Office
	Pit, Closed-Loop System	, Below-Grade	e Tank, or	
Propo	osed Alternative Method I	Permit or Clos	ure Plan Applic	ation
Type of action.	X Permit of a pit, closed-loop syst	tem, below-grade tar	nk, or proposed alterna	ative method
9081 "	Closure of a pit, closed-loop sy			
VOO.	Modification to an existing peri	mit		
	Closure plan only submitted for	r an existing permitt	ed or non-permitted pi	it, closed-loop system,
	below-grade tank, or proposed			
	oplication (Form C-144) per individ		-	
	this request does not relieve the operator of ha		· ·	· · · · ·
Operator Burlington Resources Oi	& Gas Company, LP		OGRID#. <u>14538</u>	
Address PO Box 4289, Farmingto	n, NM 87499			
Facility or well name: Barker 20				
API Number 30)-045-11351	OCD Permit Number	r	
U/L or Qtr/Qtr· G(SW/NE) Section	on: 21 Township: 32N	Range1	4W County Sa	n Juan
Center of Proposed Design: Latitude		Longitude:		<u>V</u> NAD: <u>X</u> 1927 1983
Surface Owner Federal	State Private XT	ribal Trust or Indian	Allotment	
Lined Unlined Li String-Reinforced Liner Seams Welded Fa 3 X Closed-loop System: Subsect	cover avitation P&A ner type Thickness mil ctory Other on H of 19 15 17 11 NMAC	Volume	bbl Dimensions L	THE PROPERTY OIL CONS. DIV
Type of Operation P&A	Drilling a new well X Workover o	• ,	activities which require p	prior approval of a permit or
Drying Pad X Above Grou	nd Steel Tanks Haul-off Bins	Other		
	type Thickness mil	LLDPE H	IDPE PVD Oth	ner
Below-grade tank: Subsection I Volume b Tank Construction material	of 19 15 17 11 NMAC			
Secondary containment with leak de	ection Visible sidewalls, line	 er, 6-inch lift and autor	natic overflow shut-off	
Visible sidewalls and liner		ther		
Liner Type Thickness	milHDPEPVC	Other _		
5 Alternative Method: Submittal of an exception request is requ	urad. Evantions must be submitted to	the Sente Ec Emura	contal Durage office for	popularition of ancessual

6	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, insi	utution or chu	rch)
	Four foot height, four strands of barbed wire evenly spaced between one and four feet		
	Alternate Please specify		
7			
	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)		
8		-	•
	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		
9			
	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 cons	ideration of an	proval
	(Fencing/BGT Liner)	deration of ap	provai
	Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval		
10			
11	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.	Yes	No
	- NM Office of the State Engineer - tWATERS 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, or playa lake	Yes	No
	(measured from the ordinary high-water mark).Topographic map, Visual inspection (certification) of the proposed site		
	- Topographic map, visual inspection (certification) of the proposed site		
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	∐No
	application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□na	
	- 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.	Πvos	□No
	(Applied to permanent pits)	Yes	Пио
	 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	Yes	□No
	purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	∐ i es	140
	NM Office of the Court Foresteen WATERS dealers and W. H. W.		
	- 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
	- Written confirmation or verification from the municipality, Written approval obtained from the municipality		
	Within 500 feet of a wetland.	Yes	□No
	- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site		
	Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	∐No
			□ _{NIc}
	 Within an unstable area. Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological 	Yes	∐No
	Society, Topographic map		
	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 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
String 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
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
13
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
Closure Frain - based upon the appropriate requirements of subsection e of 15 15 17 5 NN/AC and 15 15 17 15 NN/AC
Proposed Cleaners, 10 15 17 10 NMAC
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 X Workover Emergency Cavitation P&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
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)
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

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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 facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two					
facilities are required Disposal Facility Name - Engineery / IELL and from 9/ IEL - Disposal Facility Pormyt # NIM 01 0011 / NIM 01 0	0100				
Disposal Facility Name Envirotech / JFJ Landfarm % IEI Disposal Facility Permit # NM-01-0011 / NM-01-0 Disposal Facility Name Proposal Facility Permit # NM 01 005	UTUB				
Disposal Facility Name Basin Disposal Facility Disposal Facility Permit # NM-01-005 Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and					
Yes (If yes, please provide the information No 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					
Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC Instructions Fach siting criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to 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 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				
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No				
- NM Office of the State Engineer - (WATERS database search, USGS, Data obtained 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 Engineer - 1WATERS database search, USGS, Data obtained from nearby wells	∐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) - 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				
- Visual inspection (certification) of the proposed site, Aerial photo, satellite image	Yes No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	Ties Line				
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 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	Yes No				
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division					
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topography man	Yes No				
Topographic map Within a 100-year floodplain - FEMA map	Yes No				
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee attached to the clos by a check mark in the box, that the documents are attached.	ure plan. Please indicate,				
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	3				
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC	<u>-</u>				
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards of the standard	cannot be achieved)				
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC					
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC					
Site Regiantation Fran - based upon the appropriate requirements of Subsection C of 19 15 17 15 INMAC					

Form C-144 Oil Conservation Division

19 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
e-mail address <u>crystal tafoya@conocophillips con</u> Telephone (505) 326-9837
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:
Title: OMPlance Office OCD Permit Number:
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:
22 Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Reinoval (Closed-loop systems only) If different from approved plan, please explain
23 <u>Closure Report Regarding Waste Remoyal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> 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 compliance 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
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
25 Operator Closure Certification: I 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. I also certify that the closure complete 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.