#### histrict I 1625 N. French Dr., Hobbs, NM 88240

1025 N French DI , Floods, NW 66240

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

Form C-144
July 21, 2008
For temporary pits, closed-loop systems, and below-grade

tanks, submut 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

# 9579

## 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

environment. Not does approvar reneve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations of ordinances
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: Huerfanito Unit 77
API Number: 30-045-06358 OCD Permit Number
U/L or Qtr/Qtr: K(NE/SW) Section: 24 Township: 27N Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.55815 °N Longitude: 107.74187 °W NAD: X 1927 1983
Surface Owner: Federal State Private X Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19 15 17 11 NMAC Temporary Drilling Workover  RCVD FEB 10 '12 OIL CONS. DIV.
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Scams Welded Factory Other Volume bbl Dimensions L x W x D
Subsection H of 19 15 17 11 NMAC
Below-grade tank: Subsection I of 19 15.17 11 NMAC  Volume
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, ins	titution or chu	rch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify		ĺ
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)		
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		
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  (Fencing/BGT Liner)	nderation of ap	proval
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.  (Applied to permanent pits)  - Visual inspection (certification) of the proposed site; Acrial 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 - 1WATERS 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
Within an unstable area.  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100 year fleedablin	Yes	□ No
Within a 100-year floodplain	Yes	∐No

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC				
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.				
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC				
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC				
Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC				
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC				
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of				
19 15.17 9 NMAC and 19 15 17 13 NMAC				
Previously Approved Design (attach copy of design)  API or Permit				
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15.17.9				
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15.17 10 NMAC				
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				
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				
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 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)				
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 NIMAC				
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				
U Site Recognition Figure - based upon the appropriate requirements of subsection G of 15 15.17.15 royane				

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Grou	ınd Steel Tanks or Haul-off Bins On	ilv: (19 15 17 13 D NMAC)				
Instructions: Please identify the facility or facilities for the disposal of liquids, facilities are required						
Disposal Facility Name Envirotech / JFJ Landfarm / IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-0	010B			
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #.	NM-01-005				
Will any of the proposed closed-loop system operations and associated a Yes (If yes, please provide the information No	activities 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 open  Soil Backfill and Cover Design Specification - based upon the ap Re-vegetation Plan - based upon the appropriate requirements of	propriate requirements of Subsect Subsection I of 19 15 17 13 NMA	C	AC			
Site Reciamation Plan - based upon the appropriate requirements	or Subsection G of 19 15 17 13 N					
17 Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 Instructions Each string criteria requires a demonstration of compliance in the closus certain siting criteria may require administrative approval from the appropriate distring office for consideration of approval Justifications and/or demonstrations of equivalent	re plan - Recommendations of acceptabl act office or may be considered an excep	tion which must be submitted to				
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS D	ata obtained from nearby wells		∐Yes ∐No ∏N/A			
Ground water is between 50 and 100 feet below the bottom of the buries	d waste		Yes No			
- NM Office of the State Engineer - (WATERS database search, USGS, Database search)	ata obtained from nearby wells		□N/A			
Ground water is more than 100 feet below the bottom of the buried was			Yes No			
- NM Office of the State Engineer - (WATERS database search; USGS, Da	ata obtained from nearby wells		∐N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark)	significant watercourse or lakebed, si	nkhole, or playa lake	∐Yes ∐No			
- Topographic map, Visual inspection (certification) of the proposed site						
Within 300 feet from a permanent residence, school, hospital, institution, or chu - Visual inspection (certification) of the proposed site, Aerial photo; satellite		pplication	∐Yes ∐No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that purposes, or within 1000 horizontal fee of any other fresh water well or spring,  - NM Office of the State Engineer - iWATERS database, Visual inspection Within incorporated municipal boundaries or within a defined municipal fresh within pursuant to NMSA 1978, Section 3-27-3, as amended	in existence at the time of the initial ap (certification) of the proposed site	pplication	∐Yes ∐No			
- Written confirmation or verification from the municipality, Written appro- Within 500 feet of a wetland			Yes No			
US Fish and Wildlife Wetland Identification map, Topographic map, Visi Within the area overlying a subsurface mine	ial inspection (certification) of the pro	posed site	∏Yes ∏No			
- Written confirantion or verification or map from the NM EMNRD-Mining	g and Mineral Division					
Within an unstable area Engineering measures incorporated into the design, NM Bureau of Geolog	ry & Mmeral Resources, USGS, NM	Geological Society,	Yes No			
Topographic map Within a 100-year floodplain			Yes No			
- FEMA map  18  On-Site Closure Plan Checklist: (19.15 17 13 NMAC) Instructions:	Fach of the following items mu	st bee attached to the class	ure plan Please indicate.			
by a check mark in the box, that the documents are attached.			•			
String Criteria Compliance Demonstrations - based upon the app						
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						
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)						
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						

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Operator Application Certification:				
I hereby certify that the information submitted wi	th this application is true, accura	ite and complete to the	best of my knowledge and belief	
Name (Print) Doll	el-Busse	Title	Staff Regulatory Technician	_
Signature ( ) Illig	Busse	Date.	2/9/12	_
e-mail address dollie l.bussec	conocophillips com	Telephone	505-324-6104	-
***************************************				
20 OCD Approval: Permit Application (i	noluduna ol <b>h</b> eura nlan). 🗖	Closure Plan (only	OCD Conditions (see attachment)	
′	including flustile plant)	Closure Fran (only		,
OCD Representative Signature:	matt / felly	<u>/</u>	Approval Date: 2/15/	2012
Title: Compliance O	Marce (	OCD Per	mit Number:	
COMP (Invier Co.	7112			
21  Closure Report (required within 60 days Instructions Operators are required to obtain a.			AC sure activities and submitting the closure report	The closure
report is required to be submitted to the division approved closure plan has been obtained and th		•	es Please do not complete this section of the fort	n until an
эррголеа сюзиге рын наз осен отатса ана т	consure activities have been co.	· —	re Completion Date:	
22 Cleanna Mathada				
Closure Method:  Waste Excavation and Removal	On-site Closure Method	Alternative Closur	e Method Waste Removal (Closed-loop sy	stems only)
If different from approved plan, please es			Waste Nome van (crossed roop sy	siems emy)
23 Closure Report Regarding Waste <u>Remoyal Cl</u>	osure For Closed-loop Systems	That Utilize Above (	Cround Steel Tanks or Haut off Rins Only	
			ings were disposed. Use attachment if more that	n two facilities
were utilized.				
Disposal Facility Name.		-	y Permit Number	
Disposal Facility Name  Were the closed-loop system operations and a	associated actuation performed a	•	y Permit Number	<del></del>
Yes (If yes, please demonstrate complila		No	or be used for future service and operations.	
Required for impacted areas which will not h	_	_		
Site Reclamation (Photo Documentation				
Soil Backfilling and Cover Installation				
Re-vegetation Application Rates and See	ding Technique			
24				
Closure Report Attachment Checklist: the box, that the documents are attached.	Instructions: Each of the follo	wing items must be a	tached to the closure report. Please indicate, by	a check mark in
Proof of Closure Notice (surface own	er and division)			
Proof of Deed Notice (required for o	•			
Plot Plan (for on-site closures and ter	· · · · · · · · · · · · · · · · · · ·			
Confirmation Sampling Analytical R				
Waste Material Sampling Analytical	` /			
Disposal Facility Name and Permit N				
Soil Backfilling and Cover Installation	n			
Re-vegetation Application Rates and	Seeding Technique			
Site Reclamation (Photo Documenta	ion)		<u>_</u>	_
On-site Closure Location Latitud	e	Longitude	NAD	1983
25				
Operator Closure Certification: I hereby certify that the information and attachn the closure complies with all applicable closure			e and complete to the best of my knowledge and b closure plan.	pelief. I also certify that
Name (Print)	·	Title:		
Signature		Date		
				<del></del> -
e-mail address.		Telephone		

Form C-144 Oil Conservation Division

## 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.