District I 1625 N French Dr., Hobbs, NM 88240

District II
1301 W Grand Ave , Artesia, NM 88210
District III

State of New Mexico Energy Minerals and Natural Resources

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

 $\label{eq:July 21,2008} \mbox{ July 21,2008}$  For temporary pits, closed-loop sytems, and below-grade

Form C-144

tanks, submit to the appropriate NMOCD District Office

1000 Rio Brazos Rd . Aztec, NM 87410  District IV	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Francis Dr , Santa Fe, NM 8750		
Dec	Pit, Closed-Loop System, Below-Gr	· · · ·
$\mathcal{A}$	posed Alternative Method Permit or C	dosure Plan Application
Type of action:	Permit of a pit, closed-loop system, below-grade	de tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-gr	rade tank, or proposed alternative method
	X Modification to an existing permit	
	Closure plan only submitted for an existing pe below-grade tank, or proposed alternative met	ermitted or non-permitted pit, closed-loop system, chod
Instructions: Please submit one	application (Form C-144) per individual pit, closed	l-loop system, below-grade tank or alternative request
Please be advised that approva	al of this request does not relieve the operator of liability should operatio	ons 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 applica	able governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources	Oil & Gas Company LP	OGRID#: 14538
Address: PO Box 4289, Farming	2. 2.1.	14330
Facility or well name: NAVAJO	<b>4</b>	
API Number:	30-045-34444 OCD Permit Nu	
` ` <del></del>	ction: 19 Township: 27N Range:	8W County: SAN JUAN
Center of Proposed Design: Latitu		<b>107.725461</b>
Surface Owner: Federal	State Private X Tribal Trust or In	ndian Allotment
2		
X Pit: Subsection F or G of 19.15	5.17 11 NMAC	
Temporary Drilling W	Vorkover	RCVD JAN 12'1
Permanent Emergency X	Cavitation P&A (Pre-set)	OIL CONS. DIV
Lined Unlined	Liner type: Thickness mil LLDPE	
String-Reinforced		DIST. 3
Liner Seams: Welded	Factory Other Volume:	bbl Dimensions L x W x D
Classed Japan Sustanni. Suba	section H of 19.15.17.11 NMAC	
Closed-loop System: Subs		es to activities which require prior approval of a permit or
Drying Pad Above G	round Steel Tanks Haul-off Bins Other	
	<u> </u>	HDPE PVD Other
Liner Seams: Welded	Factory Other	
4		
Below-grade tank: Subsection		
Volume:	bbl Type of fluid.	
Tank Construction material:		
Secondary containment with leal	detection Visible sidewalls, liner, 6-inch lift and	l automatic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	

Alternative Method:

Liner Type:

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

PVC

HDPE

mil

Thickness

Other

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 of the light, 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	ution or church	)
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:  X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consi (Cavitation pit for Pre-set)  Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	deration of app	roval.
10	T	
Siting Criteria (regarding permitting) 19.15.17.10 NMAC Instruction: 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	
- 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.  (Applied to permanent pits)	Yes NA	No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
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 ChecklistSubsection 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			
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			
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 Workover Emergency X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System			
Alternative			
Proposed Closure Method.			
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.  Protocola and Procedures, based upon the appropriate requirements of 10.15.17.13 NIMAC.			
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			
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 Weste Paravel Classes For Classed loss Systems That Halling About Cround Steel Table on Haul off Pins Onby/10 15 17 12 D NMAC)				
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: 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 activ	ities occur on or in areas that will nbe 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				
Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMA Instructions Each stiing criteria requires a demonstration of compliance in the closure plan R certain siting criteria may require administrative approval from the appropriate district office of office for consideration of approval Justifications and/or demonstrations of equivalency are reconstructed.	ecommendations of acceptable source material are provided below r may be considered an exception which must be submitted to the Sa			
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - tWATERS database search; USGS Data ob	stained from nearby wells	Yes No		
Ground water is between 50 and 100 feet below the bottom of the buried wa	iste	☐Yes ☐No		
- NM Office of the State Engineer - tWATERS database search; USGS; Data obt		□ N/A		
Ground water is more than 100 feet below the bottom of the buried waste.		☐Yes ☐No		
- NM Office of the State Engineer - iWATERS database search, USGS; Data ob	tained from nearby wells	□N/A		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signi (measured from the ordinary high-water mark).	Yes No			
- Topographic map; Visual inspection (certification) of the proposed site		r-1., r-1.,		
Within 300 feet from a permanent residence, school, hospital, institution, or church it - Visual inspection (certification) of the proposed site; Aerial photo; satellite images	∐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				
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality, Written approval of	· '	∐Yes ∐No		
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map. Topographic map; Visual in:	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 & I Topographic map	YesNo			
Within a 100-year floodplain FEMA map	∏Yes ∏No			
On-Site Closure Plan Checklist: (19.15 17 13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	th of the following items must bee attached to the clo	sure 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 (1f 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				
X 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				
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				
X 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 with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Jamie Goodwin Title: Regulatory Technician
Signature: Date.
e-mail address Jamie.L.Goodwin@conocophillips.com Telephone. 505-326-9784
20
20 OCD Approval: Permit Application (including closure plan)
OCD Representative Signature: Approval Date: 1/7/2012
Title: (OM) ance OCHICEI () 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 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 compliane 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 <u>Closure Report Attachment Checklist:</u> 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
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 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 Cavitation Pit for Closed-Loop Locations

## Design:

Burlington Resources Oil & Gas Company, LP will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations. The drill cuttings will be stockpiled on the surface.

## **Operations and Maintenance:**

The cavitation pit will be operated and maintained as follows:

- 1. Only Fresh water and air will be used in the drilling of the surface casing.
- 2. The Cement used will be: Neat Cement with no additives.
- 3. All of the fluids will be removed within 48hrs after drilling.
- 4. A representative five point composite sample will be taken of the drill cuttings, after the setting of the surface casing is complete, using sampling tools and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

5. The NMOCD will be notified via email of the test results of the cavitation surface as follows:

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	500	
Chlorides	EPA 300.1	500	

## Closure Plan:

- 1. The NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location.
- 2. In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005) and/or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B).
- 3. Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144.

Burlington Resources is aware that approval of this plan does not relieve Burlington Resources of liability should operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve ConocoPhillips of its responsibility to comply with any other applicable governmental authority's rules and regulations.