District I 1625 N French Dr , Hobbs, NM 88240

District II

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

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

Pit, Closed-Loop System, Below-Grade Tank, or		
Proposed Alternative Method Permit or Closure Plan Application  Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method		
Type of action: 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		
X 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 hability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances		
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538		
Address: PO Box 4289, Farmington, NM 87499		
Facility or well name: MARK MADDOX 1M		
API Number: 30-045-35085 OCD Permit Number.		
U/L or Qtr/Qtr: J(NW/SE) Section: 15 Township: 32N Range: 11W County: SAN JUAN		
Center of Proposed Design: Latitude: 36.98209 °N Longitude: 107.97383 °W NAD: 1927 X 1983		
Surface Owner: Federal State X Private Tribal Trust or Indian Allotment		
X Pit: Subsection F or G of 19 15 17 11 NMAC RCUD OCT 4 12		
Temporary Drilling Workover OIL CONS. DIV.		
Permanent Emergency X Cavitation P&A (AIR Pre-set)  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 Closed-loop System: Subsection H of 19 15 17 11 NMAC		
Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)		
Drying Pad Above Ground Steel Tanks Haul-off Bins Other		
Lined Unlined Liner type Thickness mil LLDPE HDPE PVD Other		
Liner Seams Welded Factory Other		
4 Below-grade tank: Subsection Lof 19 15 17 11 NMAC		
Volume bbl Type of fluid.		
Tank Construction material		
Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off		
Visible sidewalls and liner Visible sidewalls only Other		
Liner Type Thicknessmil HDPE PVC Other		
Alternative Method:		
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval		

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  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)	40.0		
8			
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:			
X Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for a (Cavitation pit for Pre-set)	consideration of ap	proval	
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval			
10			
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 - 1WATERS 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 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	
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  - FEMA map	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			
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 Cleanury, 10 15 17 12 ND AC			
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 Excavation and Removal			
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)			
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			

16			
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 the disposal of liquids, drilling fluids and drill cuttings. Use at	: (19 15 17 13 D NMAC) Hachment if more than two		
facilities are required	VIN 01 0011 (NIM 01 0010D		
	NM-01-0011 / NM-01-0010B		
Disposal Facility Name Basin Disposal Facility Disposal Facility Permit # N			
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will Yes (If yes, please provide the information No	If 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	n 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 NM	IAC		
17			
Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC			
Instructions Each siting criteria requires a demonstration of compliance in the closure plan—Recommendations of acceptable so certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception			
office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17			
Ground water is less than 50 feet below the bottom of the buried waste	Yes	No	
- NM Office of the State Engineer - iWATERS database search, USGS. Data obtained from nearby wells	□N/A		
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes	No	
- NM Office of the State Engineer - iWATERS 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 ☐	$\exists_{No}$	
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells		<b>⊒</b>	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkly	hole or plays lake	$\log 1$	
(measured from the ordinary high-water mark)	hole, or playa lake Yes	ا ۱۸۰	
- 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 applications.	lication Yes	No	
- Visual inspection (certification) of the proposed site, Aerial photo, satellite image		ا ا	
Waker 500 have setal fact of a greater description from realizer well or coming that lead than five have shall a yea for description	Yes _	_No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domest purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial appl - 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 well field covered under a municipal pursuant to NMSA 1978, Section 3-27-3, as amended	al ordinance adopted 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 propo	Yes _	_No	
Within the area overlying a subsurface mine	Yes [	$\neg_{No}$	
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division		١٠	
Within an unstable area	Yes	No	
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Ge	eological Society,		
Topographic map  Within a 100-year floodplain	∏Yes □	No	
- FEMA map		]	
18			
On-Site Closure Plan Checklist: (1915 1713 NMAC) Instructions: Each of the following items must by a check mark in the box, that the documents are attached.	bee attached to the closure 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			
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			
X  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		1)	
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 1 of 19 15 17 13 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC			

Form C-144 Oil Conservation Division

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) Jamie Godwin Title Regulatory Technician
Signature (2000W w Date 10/3/12
c-mail address / jamie I goodwin@conocophillips com Telephone 505-326-9784
20 OCD Approval: Permit Application (including closure plan) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 10/15/2017
Title: Compliance Office OCD Permit Number:
21
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure
report is required to be submitted to the division within 60 days of the completion of the closure activities—Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
Closura Mathod:
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
The different from approved plant, predict 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
TC-vegetation Application Rates and Securing Technique
24 Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.
Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location Latitude: Longitude NAD 1927 1983
Dongrade
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 complies with all applicable closure requirements and conditions specified in the approved closure plan
Name (Print) Title
Signature Date
e-mail address Telephone

Form C-144

## 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.