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

District IV

505

State of New Mexico Energy Minerals and Natural Resources

6.1

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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| 1220 <u>S.</u> | St | Francis | Dr., | Santa | Fe, | NM | 875 |
|----------------|----|---------|------|-------|-----|----|-----|
| | | | | | | | |
| 17 | _ | \neg | | | | | |

| 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. |
| 1 |
| Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 |
| Address: PO Box 4289, Farmington, NM 87499 Facility or well name: San Juan 27-4 Unit 5 |
| API Number: 30-039-07136 OCD Permit Number: |
| U/L or Qtr/Qtr: A(NENE) Section: 7 Township: 27N Range: 4W County: Rio Arriba |
| Center of Proposed Design: Latitude: 36.591460' N Longitude: 107.285710' W NAD: X 1927 1983 |
| Surface Owner: X Federal State Private Tribal Trust or Indian Allotment |
| Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D |
| X Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: X P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad X Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other |
| Liner Seams: Welded Factory Other |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: |
| Below-grade tank: Subsection I of 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: Thickness mil 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 | won or civil on, | | | |
| 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 Signed in compliance with 19.15.3.103 NMAC | | | | |
| Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. | leration of appr | oval. | | |
| 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; Aerial photo; Satellite image | Yes | No | | |
| Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | Yes | □No | | |
| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes | □No | | |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes | □No | | |
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division | Yes | ∐No | | |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | Yes | No | | |
| Within a 100-year floodplain FEMA map | Yes | No | | |

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| ٠ | Tomp | orary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist Subsection B of 19.15.17.9 NMAC |
|-----|------------|---|
| 3 | | tions: 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 |
| ė | ` | Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC |
| | l H | |
| | | 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 |
| | | |
| | | viously Approved Design (attach copy of design) API or Permit |
| | 12 | |
| | | d-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC 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 |
| | 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 |
| | Pre | viously Approved Design (attach copy of design) API |
| | ∏Pre | viously Approved Operating and Maintenance Plan API |
| | 13 | |
| | | anent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC |
| • | | tions: 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. |
| , i | | Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC |
| ť | ΙĒ | Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC |
| • | ᆙᅢ | Climatological Factors Assessment |
| | l H | 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 |
| | ΙĦ | Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC |
| | 1 1 | Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC |
| | ΙĦ | Quality Control/Quality Assurance Construction and Installation Plan |
| | ΙĦ | 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 |
| | ΙĒ | Emergency Response Plan |
| - | ΙĦ | Oil Field Waste Stream Characterization |
| | ΙĦ | 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 | |
| | 1 | sed Closure: 19.15.17.13 NMAC |
| | Instruc | tions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. |
| ŀ | · Type: | Drilling Workover Emergency Cavitation XP&A Permanent Pit Below-grade Tank X Closed-loop System |
| í | | Alternative |
| | Propos | ed Closure Method: Waste Excavation and Removal |
| ÷ | , å, | X Waste Removal (Closed-loop systems only) |
| í | Section 5 | On-site Closure Method (only for temporary pits and closed-loop systems) |
| í | 1, 1, | In-place Burial On-site Trench |
| | | Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| * | 15 | |
| ٠ | 5 - 1 5 | Excavation and Removal Closure Plan Checklist (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. |
| | | 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 |
| | ΙĦ | 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 |
| | ΙĦ | Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC |
| | 片 | Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC |
| ď. | ı Ш | 2.12 Communition 1 mm control above the abbytchiate redunctions of parabotion Q of 15-12-17-17-17-17-17-17-17-17-17-17-17-17-17- |

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| Waste Removal Closure For Closed-loop Systems That Utilize Above G. Instructions Please identify the facility or facilities for the disposal of liquid | | | | |
|---|---|---------------------------------------|--|--|
| facilities are required | is, artiting funds and artit cuttings. Ose attachment if more than two | | | |
| Disposal Facility Name: Envirotech | Disposal Facility Permit #: NM-01-0011 | | | |
| Disposal Facility Name: Basin Disposal Facility | Disposal Facility Permit #: NM-01-005 | | | |
| Will any of the proposed closed-loop system operations and associa Yes (If yes, please provide the information No | ted activities occur on or in areas that will nbe used for futur | re service and | | |
| Required for impacted areas which will not be used for future service and of Soil Backfill and Cover Design Specification - based upon the Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirements | ne appropriate requirements of Subsection H of 19.15.17.13 h of Subsection I of 19 15 17 13 NMAC | NMAC | | |
| 17 Siting Criteria (Regarding on-site closure methods only: 19 15.17 Instructions. Each siting criteria requires a demonstration of compliance in the closu certain siting criteria may require administrative approval from the appropriate distroffice for consideration of approval Justifications and/or demonstrations of equivalent | ire plan Recommendations of acceptable source material are provided belo not office or may be considered an exception which must be submitted to the | | | |
| Ground water is less than 50 feet below the bottom of the buried wa - NM Office of the State Engineer - WATERS database search; USGS | | Yes No | | |
| Ground water is between 50 and 100 feet below the bottom of the b | puried waste | Yes No | | |
| - NM Office of the State Engineer - 1WATERS database search; USGS | | 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 obtained from nearby wells | N/A | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any o (measured from the ordinary high-water mark). | ther significant watercourse or lakebed, sinkhole, or playa lake | Yes No | | |
| - Topographic map; Visual inspection (certification) of the proposed sit | te | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or - Visual inspection (certification) of the proposed site; Aerial photo; sate | • • | Yes No | | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring to purposes, or within 1000 horizontal fee of any other fresh water well or spring to - NM Office of the State Engineer - iWATERS database; Visual inspect | ing, in existence at the time of the initial application tion (certification) of the proposed site | ∐Yes ∐No | | |
| Within incorporated municipal boundaries or within a defined municipal fres pursuant to NMSA 1978, Section 3-27-3, as amended. | | Yes No | | |
| Within 500 feet of a wetland | year to common normal and mannerparity | 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 confirantion or verification or map from the NM EMNRD-M | uning and Minaral Durisian | Yes No | | |
| Within an unstable area. | ming and Winicial Division | Yes No | | |
| - Engineering measures incorporated into the design; NM Bureau of Ge Topographic map | ology & Mineral Resources; USGS; NM Geological Society; | | | |
| Within a 100-year floodplain FEMA map | | Yes No | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructio | ons: Each of the following items must bee attached to the co | losure plan. Please indicate, | | |
| by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the | appropriate requirements of 19 15 17 10 NMAC | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| Proof of Surface Owner Notice - based upon the appropriate | | · . , · | | |
| Construction/Design Plan of Burial Trench (if applicable) be | ased upon the appropriate requirements of 19.15.17.11 NMA | .C | | |
| Construction/Design Plan of Temporary Pit (for in place bur | | nts of 19.15.17.11 NMAC | | |
| | Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC | | | |
| Waste Material Sampling Plan - based upon the appropriate | , | , | | |
| Disposal Facility Name and Permit Number (for liquids, dril | | rds cannot be achieved) | | |
| Soil Cover Design - based upon the appropriate requirement | | | | |
| Re-vegetation Plan - based upon the appropriate requiremen | | | | |
| Site Reclamation Plan - based upon the appropriate requiren | aents of Subsection G of 19.15.17.13 NMAC | in militing of | | |

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| , 19 Operator Application Co | artification. | | | |
|---|--|--|---------------------------------------|---------------------------------------|
| | mation submitted with this application is true, acco | urate and complete to the be | st of my knowledge and belief. | • |
| Name (Print): | A Rhonda Rogers | Title: | Regulatory Technician | |
| Signature: | Monted Serni | Date: | 9/29/2008 | · - |
| e-mail address: | rogerrs@conocophillips.com | Telephone: | 505-599-4018 | |
| | | | | |
| 20 | | - | | |
| OCD Approval: | rmit Application (including closure plan) | Closure Plan (only) | OCD Conditions (see atta | chment) |
| OCD Representative Sig | nature: | | Approval Date: | 11-3-08 |
| | 1 / | | | |
| Title: Enc | ino/spec | OCD Perm | nit Number: | |
| Instructions: Operators are r report is required to be subm | d within 60 days of closure completion): So required to obtain an approved closure plan prior litted to the division within 60 days of the completion obtained and the closure activities have been of | to implementing any closure non of the closure activities. completed | e activities and submitting the closi | - |
| 22 | | | | |
| Closure Method: | | | S . | |
| Waste Excavation an | d Removal On-site Closure Method | Alternative Closure | Method Waste Removal (C | losed-loop systems only) |
| If different from appr | oved plan, please explain. | | | |
| 23 | | | <u> </u> | |
| | Waste Removal Closure For Closed-loop System | | | |
| Instructions: Please identify were utilized. | the facility or facilities for where the liquids, dri | lling fluids and drill cutting | s were disposed. Use attachment | if more than two facilities |
| Disposal Facility Name: | | Disposal Facility | Permit Number | |
| Disposal Facility Name: | | Disposal Facility | | - |
| Were the closed-loop syst | em operations and associated activities performed | • | | artions? |
| Yes (If yes, please de | emonstrate complilane to the items below) | No | | · . |
| , | eas which will not be used for future service and o | perations: | | , |
| Site Reclamation (Ph | • | | | |
| Soil Backfilling and C | eation Rates and Seeding Technique | | | • • • • |
| | ation Rates and Seeding Technique | | | |
| Closure Report Attac | hment Checklist: Instructions: Each of the fo | llowing itams must be attac | had to the closure report. Please | indicate by a check mark in |
| the box, that the documer | | nowing nems must be unuc | neu to the closure report. Tieuse | писсие, бу и спеск тигк т |
| Proof of Closure N | lotice (surface owner and division) | | | |
| . == | ice (required for on-site closure) | | | |
| Plot Plan (for on-si | te closures and temporary pits) | • | | |
| . = | pling Analytical Results (if applicable) | | | , |
| , <u>=</u> | mpling Analytical Results (if applicable) | | | • |
| S: === ' . | Jame and Permit Number | | | |
| 5,7° ==== - | d Cover Installation | | | A Company |
| · = · · · · · · · · · · · · · · · · · · | lication Rates and Seeding Technique Photo Documentation) | | | , , |
| On-site Closure Lo | · | Longitude: | NAD 🗍 | 1927 |
| On-site Closure Lo | outon. Danielo. | Longitude. | NAD | 1763 |
| | | | | |
| 25 Operator Closure Certifi | ication: | | | |
| I hereby certify that the infort | mation and attachments submitted with this closur | • | | ledge and belief. I also certify that |
| tne closure complies with all | applicable closure requirements and conditions s | pecified in the approved clos | sure plan. | • |
| Name (Print): | | Title: | | · · · · · · · · · · · · · · · · · · · |
| Signature: | | Date: | | · · · · · · · · · · · · · · · · · · · |
| e-mail address: | | Telephone: | | |

Form C-144

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). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) 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
- 4. All of the above operations will be inspected and a log will be signed and dated. During rig operations the inspection will be daily.

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) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005). 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.