Sstrict I 1625 N French Dr , Hobbs, NM 88240 District II

State of New Mexico Energy Minerals and Natural Resources

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

Form C-144

1301 W Grand Ave , Artesia, NM 88210 District III $1000\ Rio\ Brazos\ Rd$, $Aztec,\ NM\ 87410$

Department Oil Conservation Division 1220 South St. Francis Dr. 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

District IV 1220 S St Francis Dr , Santa Fe, NM 87505

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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

Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538	
Address PO Box 4289, Farmington, NM 87499	
Facility or well name Canyon Largo Unit 160	
API Number 30-039-20306 OCD Permit Number	
U/L or Qtr/Qtr D(NW/NW) Section 13 Township 25N Range 6W County: Rio Arriba	
Center of Proposed Design Latitude. 36.40372 °N Longitude: 107.42476 °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)ĮŲ.
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 on 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	г
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, inst Four foot height, four strands of barbed wire evenly spaced between one and four feet	titution or chui	rch)
Alternate Please specify		
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		
8		
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: Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Fencing/BGT Liner) Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	ideration of ap	proval
Exception(b) Acquests must be obtained to the same to Electronic and Electronic a		
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		Пъ
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 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	Yes	No
Within a 100-year floodplain	Yes	No

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
String Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9
NMAC and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15 17 9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
☐ Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC
Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19 15 17 11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
14 Proceed Classes 10 15 17 12 20 44 C
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 Cavitation XP&A Permanent Pit Below-grade Tank X Closed-loop System
Alternative
Proposed Closure Method Waste Excavation and Removal
X Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
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 Waste Removal Closure For Closed	-loop Systems That Utilize Above Ground Ste	el Tanks or Haul-off Bins On	lv: (19 15 17 13 D NMAC)	
	ty or facilities for the disposal of liquids, drillin			
Disposal Facility Name Envir	otech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00)10B
Disposal Facility Name Basin	Disposal Facility	Disposal Facility Permit #	NM-01-005	
Will any of the proposed closed-lo Yes (If yes, please provide	op system operations and associated activity the information No	es occur on or in areas that v	vill not be used for future	service and
Soil Backfill and Cover De. Re-vegetation Plan - based	all not be used for future service and operations sign Specification - based upon the appropriate requirements of Subsected upon the appropriate requirements of Subsected upon the appropriate requirements of Su	ction I of 19 15 17 13 NMA	С	ac .
17				
Instructions Each siting criteria require certain siting criteria may require admin	te closure methods only: 19 15 17 10 NMA s a demonstration of compliance in the closure plan istrative approval from the appropriate district offic tifications and/or demonstrations of equivalency are	Recommendations of acceptable or may be considered an excep	tion which must be submitted to	
	below the bottom of the buried waste er - iWATERS database search, USGS Data obt	ained from nearby wells		Yes No
Ground water is between 50 and 1	00 feet below the bottom of the buried wast	5		☐Yes ☐No
	r - 1WATERS database search, USGS, Data obta			N/A
Ground water is more than 100 fee	et below the bottom of the buried waste			Yes No
- NM Office of the State Engineer	r - 1WATERS database search, USGS, Data obta	nned from nearby wells		□N/A
(measured from the ordinary high-water	· ·	cant watercourse or lakebed, su	nkhole, or playa lake	Yes No
	ction (certification) of the proposed site			
•	dence, school, hospital, institution, or church in of the proposed site, Aerial photo, satellite image		pplication	Yes No
purposes, or within 1000 horizontal fe - NM Office of the State Engineer	, domestic fresh water well or spring that less the e of any other fresh water well or spring, in exist - iWATERS database, Visual inspection (certifi tries or within a defined municipal fresh water w	ence at the time of the initial ap- cation) of the proposed site	pplication	∐Yes ∐No
pursuant to NMSA 1978, Section 3-27			F	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Id	dentification map, Topographic map, Visual insp	ection (certification) of the pro	posed site	Yes No
Within the area overlying a subsur	face mine ion or map from the NM EMNRD-Mining and N	fineral Division		Yes No
Within an unstable area	,			Yes No
 Engineering measures incorporat Topographic map 	ed into the design, NM Bureau of Geology & M	ineral Resources, USGS, NM (Geological Society,	
Within a 100-year floodplain - FEMA map				Yes No
On-Site Closure Plan Checklist: by a check mark in the box, that t	(19 15 17 13 NMAC) Instructions: Each	of the following items mus	t bee attached to the closu	re plan Please indicate,
	Demonstrations - based upon the appropriate	re requirements of 19 15 17	10 NMAC	
	tice - based upon the appropriate requireme			
Construction/Design Plan o	of Burial Trench (if applicable) based upon t	he appropriate requirements	of 19 15 17 11 NMAC	
=	of Temporary Pit (for in place burial of a dry	•	propriate requirements of	19 15 17 11 NMAC
=	based upon the appropriate requirements of		E 010171717	
=	n (if applicable) - based upon the appropriat			
	lan - based upon the appropriate requirement			annot he achieved
☐ 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 - bas	ed upon the appropriate requirements of Su	bsection G of 19 15 17 13 N	MAC	

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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) CRYSTAL TAFOYA, Title STAFF REGULATORY TECHNICIAN Pote (2) 20 10 11
Signature Date 2/29/2011 e-mail address crystal tafoya@conocoptillipscom Telephone (505) 326-9837
e-mail address <u>crystal tafoya@conocoptfillips/com</u> Telephone (505) 326-9837
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 1/84/2011
Title: Compliance Offize 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:
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 Nama
Disposal Facility Name Disposal Facility Permit Number Disposal Facility Permit Number 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 comphlane to the items below)
Required for impacted areas which will not be used for future service and operations
Ste Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions. Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached
Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD 1927 1983
Diligitude 1721 1703
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 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.