<u>District I</u> 1625 N French Dr , Hobbs, NM 88240

State of New Mexico **Energy Minerals and Natural Resources** Department

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

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

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

tanks, submit to the appropriate NMOCD District Office

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

Pro

Pit,	Closed-Loop	System,	Below-	Grade Ta	ank, o	<u>r</u>
posed	Alternative N	fethod P	ermit or	Closure	Plan A	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: Sutton 1
API Number: 30-045-09558 OCD Permit Number
U/L or Qtr/Qtr: D(NW/NW) Section: 18 Township: 30N Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.81645 °N Longitude: 108.03713 °W NAD: X 1927 1983
Surface Owner: Federal State X Private Tribal Trust or Indian Allotment
Permanent Emergency Cavitation P&A DIST. 3 String-Reinforced Liner Seams: Welded Factory Other Volume bbl Dimensions L x W x D
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 Other Control of the contro
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
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		
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19 15 17 11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19 15 3 103 NMAC		
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. Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	proval
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 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 - 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 man	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 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9			
Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17 10 NMAC			
Design Plan - based upon the appropriate requirements of 19 15 17.11 NMAC			
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC			
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of			
19.15.17.9 NMAC and 19 15 17 13 NMAC			
Previously Approved Design (attach copy of design) API or Permit			
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.			
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9			
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15 17 10 NMAC			
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC			
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC			
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17.9			
NMAC and 19 15.17.13 NMAC			
Previously Approved Design (attach copy of design) API			
Previously Approved Operating and Maintenance Plan API			
13			
Permanent Pits Permit Application Checklist: Subsection B of 19 15.17 9 NMAC			
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.			
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC			
Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC			
Dike Protection and Structural Integrity Design. based upon the appropriate requirements of 19.15.17.11 NMAC			
Leak Detection Design - based upon the appropriate requirements of 19.15 17.11 NMAC			
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC			
Quality Control/Quality Assurance Construction and Installation Plan			
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC			
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15 17.11 NMAC			
Nuisance or Hazardous Odors, including H2S, Prevention Plan			
Emergency Response Plan			
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan			
Erosion Control Plan			
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC			
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 X P&A Permanent Pit Below-grade Tank X 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)			
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			
Ste Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC			

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions Please identify the facility or facilities for the disposal of liquids, drillin facilities are required	eel Tanks or Haul-off Bins On og fluids and drill cuttings Use	<u>ly:</u> (19 15 17 13 D NMAC) attachment if more than two	
Disposal Facility Name Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	010B
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #		
Will any of the proposed closed-loop system operations and associated activity Yes (If yes, please provide the information No	•		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 Re-vegetation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements.	rate requirements of Subsect ection I of 19 15 17 13 NMA	С	AC
17			
Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMA Instructions Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district offic office for consideration of approval Justifications and/or demonstrations of equivalency are	n Recommendations of acceptable ice or may be considered an except	tion which must be submitted to	
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS Data ob	tained from nearby wells	,	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried wast	te		☐Yes ☐No
- NM Office of the State Engineer - iWATERS 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 obt	amed from nearby wells		
	·	alabada assalassa lalaa	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signifi (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	cant watercourse or lakeded, sir	ikhole, or playa lake	∐Yes ∐No
	aviatance at the time of initial or	anleagtion	∏Yes ∏No
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo, satellite image		opiication	
			Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less th purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis - NM Office of the State Engineer - iWATERS database, Visual inspection (certif	tence at the time of the initial ap	~ 1	
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended		pal ordinance adopted	Yes No
 Written confirmation or verification from the municipality, Written approval obt Within 500 feet of a wetland 	ained from the municipality		
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual insp	pection (certification) of the pro-	posed site	∐Yes ∐No
Within the area overlying a subsurface mine			Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining and N	Mineral Division		
Within an unstable area			YesNo
 Engineering measures incorporated into the design, NM Bureau of Geology & N Topographic map 	Imeral Resources, USGS, NM (Geological Society,	
Within a 100-year floodplain - FEMA map			Yes No
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each	h of the following items mus	st bee attached to the closu	re plan. Please indicate,
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropria	ite requirements of 10 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 Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC			
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC			
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)			annot 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 Subsc	Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMAC		

Form C-144 Oil Conservation Division

Name (Print)	nformation submitted with this application is true, accurate CRYSTAL TAFOYA	Title STAFF REGULATORY TECHNICIAN
Signature	Constal Taloya	Date 2/13/20/2
e-mail address	crystal tafoya@conocophillips com	Telephone (503) 326-9837
o man address		(505) 320 3031
OCD Representative	\cap \bigcirc	Closure Plan (only) OCD Conditions (see attachment) Approval Date: 2/15/2012 OCD Permit Number:
1		
nstructions Operators report is required to be		mplementing any closure activities and submitting the closure report. The closure of the closure activities. Please do not complete this section of the form until an
		Closure Completion Date:
22		
Closure Method: Waste Excavation If different from	on and Removal On-site Closure Method approved plan, please explain	Alternative Closure Method Waste Removal (Closed-loop systems only)
3		
nstructions: Please ide		<u>Fhat Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> g fluids and drill cuttings were disposed. Use attachment if more than two facilities
ere utilized. Disposal Facility Nai	ne	Disposal Facility Permit Number
Disposal Facility Nat		Disposal Facility Permit Number
		or in areas that will not be used for future service and opeartions?
Yes (If yes, plea	se demonstrate complilane to the items below)	No
Required for impact	ed areas which will not he used for future service and oper	ations
=	n (Photo Documentation)	•
=	and Cover Installation	
Re-vegetation A	pplication Rates and Seeding Technique	
	ttachment Checklist: Instructions: Each of the follow ruments are attached.	ving items must be attached to the closure report. Please indicate, by a check mark in
Proof of Closu	re Notice (surface owner and division)	
=	Notice (required for on-site closure)	
	on-site closures and temporary pits)	
=	Sampling Analytical Results (if applicable)	
=	l Sampling Analytical Results (if applicable)	
	ity Name and Permit Number	
=	g and Cover Installation	
	Application Rates and Seeding Technique	
On-site Closur	on (Photo Documentation) e Location Latitude	Longitude NAD 1927 1983
On-site Closui	e Location Lantide	Longitude NAD 1921 1963
15		
		eport is ture, accurate and complete to the best of my knowledge and belief I also certify that ified in the approved closure plan
Name (Print)	· ·	Trtle.
Signature		Date
		T. 1. 1
e-mail address.		Telephone

Form C-144 Oil Conservation Division

Burlington Resources Oil & Gas Company, LP Closed-loop Plans

Closed-loop Design Plan

BR's closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will include an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1. Fencing is not required for an above ground closed-loop system
- 2. It will be signed in compliance with 19.15.3.103 NMAC
- 3. A frac tank will be on location to store fresh water

Closed-loop Operating and Maintenance Plan

BR's closed-loop tank will be operated and maintained to contain liquids and solids in order to prevent contamination of fresh water sources, in order to protect public health and the environment. To ensure the operation is maintained the following steps will be followed:

- 1. The liquids will be vacuumed out and disposed of at the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) on a periodic basis to prevent over topping.
- 2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
- 3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately

Closed-loop Closure Plan

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.