District I

1625 N. French Dr., Hobbs, NM 88240

District II

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

# State of New Mexico Energy Minerals and Natural Resources

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

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942		Pit, Closed-Loop System, Below-Grade Tank, or
1-1-02	<u>Prop</u>	osed Alternative Method Permit or Closure Plan Application
	Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative m

Exion: 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 ordinance:

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#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Scott Gas Com 100	
API Number: 30-045-34762	OCD Permit Number:
U/L or Qtr/Qtr: A(NENE) Section: 1 Township: 30N	Range: 12W County: San Juan
Center of Proposed Design: Latitude: 36.845726' N	Longitude: 108.043947' W NAD: 1927 X 1983
Surface Owner: Federal State X Private 7	Fribal 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  String-Reinforced  Liner Seams: Welded Factory Other	U LLDPE HDPE PVC Other  Volume: bbl Dimensions L x W x D
X Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A X Drilling a new well Workover on notice of tr  X Drying Pad X Above Ground Steel Tanks Haul-off Bins  X Lined Unlined Liner type: Thickness 20 mil  Liner Seams: X Welded X Factory Other	or Drilling (Applies to activities which require prior approval of a permit or ntent)  Other  XLLDPE HDPE PVD Other
	ner, 6-inch lift and automatic overflow shut-off
5  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to	o the Santa Fe Environmental Bureau office for consideration of approval.

6				
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)				
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		Ì		
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:				
П				
Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for const	deration of ap	proval.		
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		ļ		
10 Gitting Criticals (reconsider a consisting), 10.15.17.10 NMAC				
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		ļ		
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.	Yes	No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	□Yes	$\square_{No}$		
lake (measured from the ordinary high-water mark).				
- 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	□Yes	П		
application.				
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Ппа			
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ا '''``			
		,		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	∐No		
(Applied to permanent pits)	∐NA			
- 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	Yes	No		
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.				
- 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	Yes	No		
- Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 500 feet of a wetland.	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 confirmation or verification or map from the NM EMNRD - Mining and Mineral Division				
Within an unstable area.				
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological				
Society; Topographic map	F-1			
Within a 100-year floodplain	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			
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 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			
Proposed Closure: 19 15 17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.			
Alternative			
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)			
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 Packfill and Cover Design Specifications, based upon the appropriate requirements of Subsection H of 10.15.17.13 NIMAC			
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 Tha	at Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17 13.D NM/	AC)	
Instructions: Please identify the facility or facilities for to are required	he disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than	two facilities	
Disposal Facility Name: Envirotech	Disposal Facility Permit #. NM-01-0011	**************************************	
Disposal Facility Name. Basin Disposal Facili	ty Disposal Facility Permit #: NM-01-005		
Will any of the proposed closed-loop system operation  Yes (If yes, please provide the information	ons and associated activities occur on or in areas that will not be used for fut  No	ure service and operations?	
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC			
certain siting criteria may require administrative approval fro	ds only:_19.15.17.10 NMAC compliance in the closure plan Recommendations of acceptable source material are provide in the appropriate district office or may be considered an exception which must be submitted attors of equivalency are required. Please refer to 19 15 17 10 NMAC for guidance		
Ground water is less than 50 feet below the bottom	of the buried waste.	Yes No	
- NM Office of the State Engineer - (WATERS data	base search, USGS: Data obtained from nearby wells	∐N/A	
Ground water is between 50 and 100 feet below the		Yes No	
Ť	pase search; USGS; Data obtained from nearby wells	∐N/A	
Ground water is more than 100 feet below the botto		Yes No	
-	pase search; USGS; Data obtained from nearby wells	□ N/A	
(measured from the ordinary high-water mark)	r 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No	
- Topographic map; Visual inspection (certification)	• •		
<ul> <li>Within 300 feet from a permanent residence, school, hos</li> <li>Visual inspection (certification) of the proposed site</li> </ul>	pital, institution, or church in existence at the time of initial application. A Aerial photo; satellite image	∐Yes ∐No	
purposes, or within 1000 horizontal fee of any other fresh	ater well or spring that less than five households use for domestic or stock watering a water well or spring, in existence at the time of the initial application.  ase: Visual inspection (certification) of the proposed site	Yes No	
pursuant to NMSA 1978, Section 3-27-3, as amended	fined municipal fresh water well field covered under a municipal ordinance adopted	Yes No	
Within 500 feet of a wetland	cipality; Written approval obtained from the municipality	Yes No	
	Topographic map; Visual inspection (certification) of the proposed site	110	
Within the area overlying a subsurface mine.		Yes No	
- Written confirantion or verification or map from th	e NM EMNRD-Mining and Mineral Division		
	NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society;	Yes No	
Topographic map Within a 100-year floodplain - FEMA map		Yes No	
On-Site Closure Plan Checklist: (19.15.17.13 NN by a check mark in the box, that the documents ar	AAC) Instructions: Each of the following items must bee attached to the ce eattached.	losure 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			
Protocols and Procedures - based upon the appropriate requirements of 19.15.17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
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)			
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			
Ste Declaration Plan hased upon the appropriate requirements of Subsection C of 10.15.17.13 NMAC			

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Operator Application C	ertification: rmation submitted with this application is true, acci	urate and complete to the	best of my knowledge and belief.
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician
Signature	Contal Talous	Date:	10/10/2008
e-mail address:	crystal.taloya@conocophillips.com	Telephone.	505-326-9837
e man address.	v programme v		
20 <b>OCD Approval:</b> Pe	ermit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sig	gnature: Bd-Xdl	-	Approval Date:
Title:E	invivo/spec	OCD Per	mit Number:
21			
Closure Report (require Instructions Operators are report is required to be subi		to implementing any clos on of the closure activiti	C ure activities and submitting the closure report The closure es Please do not complete this section of the form until an
		Closur	e Completion Date:
22 Closura Mathad			
Closure Method:  Waste Excavation as	nd Removal On-site Closure Method	Alternative Closure	e Method Waste Removal (Closed-loop systems only)
	proved plan, please explain.		
23			
Closure Report Regarding	Waste Removal Closure For Closed-loop System		
nstructions: Please taenty vere utilized.	y ine factury or factuaes for where the tiquas, arti	ung jiuias ana arui cun	ings were disposed. Use attachment if more than two facilities
Disposal Facility Name		Disposal Facilit	y Permit Number
Disposal Facility Name:		Disposal Facility	y Permit Number:
	stem operations and associated activities performed		ot be used for future service and opeartions?
	emonstrate compliane to the items below)	]No	
	reas which will not be used for future service and of hoto Documentation)	perations:	
Soil Backfilling and			
	cation Rates and Seeding Technique		
24			
Closure Report Attac		owing items must be att	ached to the closure report. Please indicate, by a check mark in
the box, that the docume			
=	lotice (surface owner and division)		
=	ice (required for on-site closure)		
1	ite closures and temporary pits)		
=	pling Analytical Results (if applicable)		
Ħ	mpling Analytical Results (if applicable)		
<b>≒</b> '	Name and Permit Number		
<u>=</u>	d Cover Installation		
=	Dication Rates and Seeding Technique		
<u> </u>	Photo Documentation)	1	NAD [] 1022 [] 1022
On-site Closure Lo	ocation: Latitude	Longitude:	NAD [ ] 1927 [ ] 1983
<sup>25</sup> Op <u>erator Closure Certi</u>	lication:		
hereby certify that the info		•	e and complete to the best of my knowledge and belief I also certify that closure plan.
Name (Print):	comine requirements and conditions of	Title	
Signature.		Date:	
e-mail address:		Telephone:	

## **Burlington Resources Oil & Gas Company, LP**

#### **Closed Loop Design:**

The closed loop design will not incorporate a temporary pit or below grade tank. The plan will utilize an above grade tank suitable for holding the cuttings and fluids generated during drilling operations. The volume of the tank shall be of a sufficient volume to maintain an adequate free board for periodic removal and disposal of cuttings and fluids.

Burlington Resources Oil & Gas Company, LP may incorporate the use of a 20 mil, string reinforced, LLDPE liner with factory welded seams to line the drying pad in order to minimize the volume of fluids to be disposed of. The drying pad will be designed to prevent contamination of fresh water, protect public health and the environment, and have sumps to facilitate the collection of liquids derived from drilling cuttings, as specified per subsection H of 19.15.17.11. The cuttings pad will be constructed above grade and containment will be through the use of earthen berms of sufficient height to contain the cuttings and prevent run-off of surface water or fluids. The drying pad area will replace the area of the drill site previously designated for the reserve pit. It will be signed in compliance with 19.15.3.103.NMAC. Frac tanks will be utilized on site for fresh water storage.

### **Closed Loop Operations and Maintenance:**

The closed loop system will be operated and maintained for solids and liquid containment to prevent ground water contamination as follows:

- Any free liquids will be recovered and reused or disposed of at the Basin Disposal Facility (Permit # NM-01-005). Reuse may include the relocating of liquids to be used in other permitted drilling operations.
- Drill solids will be recovered from location and hauled to a Envirotech (Permit #NM-01-0011) periodically as required to maintain a safe free board in the cuttings tank. No onsite trench burial of cuttings will occur.
- 3. In the event a drying pad is utilized, the cuttings will be picked up and transported to Basin Disposal Facility (Permit #NM-01-005). The liner will be disposed of at the San Juan County Landfill located on CR 3100. The drying pad will be closed within 6 months from the date that the drilling rig is released. Berms constructed from native materials will be bladed on site to the location's contour.
- 4. Any drilling materials or trash will be stored and disposed of appropriately.
- 5. The NMOCD will be notified within 48 hours of the discovery of compromised integrity of the closed loop containment. Any required repairs will commence immediately.

#### **Closed Loop Closure Plan:**

- Upon completion of the drilling operations, all solids and liquids will be removed and disposed of to Envirotech (Permit #NM-01-0011) and Basin Disposal Facility (Permit # NM-01-005). Equipment shall also be removed from location. In the event a drying pad is utilized, the solids contained on the pad shall remain on site to allow sufficient drying and will then be transported to Envirotech (Permit # NM-01-0011) within 6 months from the date that the drilling rig is released.
- 2. After the drying pad is removed the surface below will be visually inspected for any contamination. If contamination is discovered a five point composite sample will be taken of the drying pad area using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

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

- 3. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 4. Notification will be sent to OCD when the reclaimed area is seeded.
- 5. BR shall seed the disturbed areas the first growing season after the operator closes the drying pad. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality) Source No. two (better quality) Purity 50 percent 80 percent Purity Germination 40 percent Germination 63 percent Percent PLS 20 percent Percent PLS 50 percent 5 lb. bulk seed required to make 2 lb. bulk seed required to make

b ib. bulk seed required to make 2 ib. bulk seed required to m

1 lb. PLS 1 lb. PLS