625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-144 July 21, 2008			
District II District III Department District III Oil Conservation Division District III 1220 South St. Francis Dr.		For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.			
000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	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.			
220 S. St. Francis Dr., Santa Fe, NM 87505	Pit, Closed-Loop System, Below-Grad				
Pror					
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					
• Type of action:	X Permit of a pit, closed-loop system, below-grade ta				
	Closure of a pit, closed-loop system, below-grade t	ank, or proposed alternative method			
	Closure plan only submitted for an existing permitt	ted or non-permitted pit closed-loop system			
	below-grade tank, or proposed alternative method	ed of holi-perinted pr, closed-loop system,			
Instructions: Please submit one	application (Form C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request			
	of this request does not relieve the operator of liability should operations re				
environment. Nor does approval re	slieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.			
Derator: Burlington Resources C	Dil & Gas Company, LP	OGRID#: <u>14538</u>			
Address: PO Box 4289, Farming	ton, NM 87499				
Facility or well name: Jicarilla 15.	3 #7				
API Number:	30-039-08093 OCD Permit Numbe	r:			
J/L or Qtr/Qtr: E(SW/NW) Sect	ion: <u>36</u> Township: <u>26N</u> Range: <u>4</u>	5W County: Rio Arriba			
Center of Proposed Design: Latitud	le: 36.44583 °N Longitude:	-107.31546 °W NAD: X 1927 1983			
Surface Owner: Federal	State Private X Tribal Trust or Indian	Allotment			
2 2 Pit: Subsection F or G of 19.15.		RCVD APR 22 '13 OIL CONS. DIV.			
2 Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency	17.11 NMAC orkover Cavitation P&A	RCVD APR 22 '13			
Permanent Unlined String-Reinforced	17.11 NMAC orkover Cavitation P&A	RCVD APR 22 '13 OIL CONS. DIV. DIST. 3 HDPE PVC Other			
Pit: Subsection F or G of 19.15. Temporary: Drilling Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded 3 X Closed-loop System: Type of Operation: P&A Drying Pad X Above Group Lined Unlined	17.11 NMAC prkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume: ction H of 19.15.17.11 NMAC Drilling a new well X Workover or Drilling (Applies to notice of intent) pund Steel Tanks Haul-off Bins Other	RCVD APR 22 '13 OIL CONS. DIV. DIST. 3 HDPE PVC Other			
Pit: Subsection F or G of 19.15. Temporary: Drilling Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded 3 Closed-loop System: Type of Operation: P&A Drying Pad X Above Group Liner Seams: Welded	17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume:	RCVD APR 22 '13 OIL CONS. DIV. DIST. 3 HDPE PVC Other			
Pit: Subsection F or G of 19.15. Temporary: Drilling Weight Emergency Lined Unlined String-Reinforced Iner Seams: Liner Seams: Welded 3 Closed-loop System: X Closed-loop System: Type of Operation: P&A Drying Pad X Above Groc Lined Unlined Line Type of Operation: P&A Orying Pad X Above Groc Lined Unlined Line Tank Construction material: Secondary containment with leak c Visible sidewalls and liner Liner Type: Thickness S Alternative Method: S	17.11 NMAC prkover (Cavitation] P&A Liner type: Thickness mil] LLDPE] Factory] Other Volume: ction H of 19.15.17.11 NMAC] Drilling a new well X Workover or Drilling (Applies to motice of intent) pund Steel Tanks] Haul-off Bins]Other her type: Thickness mil] LLDPE] Factory]Other her type: Thickness mil] LLDPE] her type: Thickness mil] LLDPE] her type: Thickness mil] hourd Steel Tanks] Haul-off Bins]Other her type: Thickness mil] her type: Thickness mil] her type of fluid: her type of fluid: her type of fluid: her type of fluid: her mil] HDPE] PVC]Other	RCVD APR 22 '13 OIL CONS. DIV. DIST. 3 HDPE PVC Other			
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6 <u> Fencing:</u> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)		5. T
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	itution or chui	rch)
Alternate. Please specify		
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other		
8		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
9 <u>Administrative Approvals and Exceptions:</u> 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)	ideration of ap	proval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
¹⁰ <u>Siting Criteria (regarding permitting)</u> : 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)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes NA	No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	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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11 <u>Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist:</u> 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
<u>Closed-loop Systems Permit Application Attachment Checklist:</u> 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
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.
Type: Drilling X Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank X Closed-loop System
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

Disposal Facility Name: Envirotech / 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	<u> </u>
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future and the vector of the used for future and the vector of the v	service and
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection 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	AC
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to office for consideration of approval. Justifications and/or demonstrations 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 - iWATERS database search; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.	Yes 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 other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- 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 application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
	· Yes No
 Within 500 horizontal 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 fee of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal 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 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.	Yes No
- Written confirantion 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 	
Within a 100-year floodplain. - FEMA map	Ycs No

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		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

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

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Description of the finantian submitted with this application is true, accurate and complete to the best of my knowledge and belief Name (Writt) DENKE_CURNEY The' Regulatory Technician Signature Denke_Journey Reconcentification OCD Approval: Operation Application (including plan) Intervention Approval Date: Mathematication Approval Date: Materication Approval Date:	19	
Name (Prim): DENSE: OURNEY Title: Regulatory Technetian Signatur: Danie: 4182013 Danie: 10503 326-9356 CDAproval: Premit Application (including toosine plan) Closure Plan (ent) COCD Conditions (see subchment) CDAproval: Premit Application (including toosine plan) Closure Plan (ent) COCD Conditions (see subchment) CD Representative Signature: Approval Date: July 250203 Mare Report (required within 60 dates of closure completion): Solvework 67 (933 711 NMC Barer Report (required within 60 dates of closure completion): Solvework 67 (933 711 NMC Barer Report (required within 60 dates of closure completion): Solvework 67 (933 711 NMC Barer Report (required within 60 dates of closure completer) Closure Completion Date: Barer Report Recarding Vaste Removal Closure For Closure Method Ahernative Cleaner Method: Waste Execution and Removal Closure For Closure Method: Barer Method: Disposal Facility Pennit Disposal Facility Pennit Barer Haut No facilities for where the fluids, drifting fluids and drift cuttings were disposal. Closure Closure fluids constance completion Barer Method: Disposal Facility Pennit Disposal Facility Pennit Disposal Facility Pennit		courate and complete to the best of my knowledge and belief
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mail address:		
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saure Method: On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.		Closure Completion Date:
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If different from approved plan, please explain. sourc Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: structions: Please iduality the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities retuilized. Disposal Facility Name:		
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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:

- 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.