Description of the system: Superior of the system: Superior of the system: Pit. Closed-Loop Proposed Alternative Met Pit. Closed-Loop Proposed Alternative Met Type of action: Permit of a pit, close Closure of a pit, close Modification to an e Closure plan only su below-grade tank, o structions: Please submit one application (Form C-144, Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibil ator: Burlington Resources Oil & Gas Company, LP ess: PO Box 4289, Farmington, NM 87499 ity or well name: SAN JUAN 32-9 UNIT 104 Number: 3004527517 ator (Qtr/Qtr: Closection F or G of 19.15.17.11 NMAC morary: Prilling Workover Permanent Pring: Subsection F or G of 19.15.17.11 NMAC Injer, Reinforced ermanent Pring: Workover Permanent E	Partment For temporary pits, closed-loop sytems, and tanks, submit to the appropriate NMOCD Distict Office. A sie, NM 87505 For permanent pits and exceptions submit to Environmental Bureau office and provide a cop appropriate NMOCD District Office. System, Below-Grade Tank, or thod Permit or Closure Plan Application Sed-loop system, below-grade tank, or proposed alternative method sed-loop system, below-grade tank, or proposed alternative method ed-loop system, below-grade tank, or proposed alternative method Sed-loop system, below-grade tank, or proposed alternative method per individual pit, closed-loop system, below-grade tank or alternative operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or ordi OCD Permit Number: 32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: [X] 1 rate Tribal Trust or Indian Allotment
Number: 11V St. Francis Dr., Santa Fe, NM 87505 Pit, Closed-Loop Proposed Alternative Me Type of action:	Arie, NM 87505 For permanent pits and exceptions submit to Environmental Bureau office and provide a cog appropriate NMOCD District Office. System, Below-Grade Tank, or thod Permit or Closure Plan Application ed-loop system, below-grade tank, or proposed alternative method sed-loop system, below-grade tank, or proposed alternative method existing permit abmitted for an existing permitted or non-permitted pit, closed-loop rproposed alternative method aper individual pit, closed-loop system, below-grade tank or alternative operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or ordi OCCD Permit Number: 32N Range: IOW County: San Juan Longitude: -107.83096°W NAD: [X] 1 rate Tribal Trust or Indian Allotment
Pit, Closed-Loop Proposed Alternative Me Type of action:	System, Below-Grade Tank, or thod Permit or Closure Plan Application ed-loop system, below-grade tank, or proposed alternative method sed-loop system, below-grade tank, or proposed alternative method existing permit abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method abmitted for an existing permitted pit, closed-loop system, below-grade tank or alternative operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or orditive OGRID#: 14538 OCD Permit Number:
Proposed Alternative Me Type of action: X Permit of a pit, closs Closure of a pit, closs Closure of a pit, closs Closure of a pit, closs Closure of a pit, closs Closure plan only st below-grade tank, o below-grade tank, o structions: Please submit one application (Form C-144, Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibil ator: Burlington Resources Oil & Gas Company, LP ess: PO Box 4289, Farmington, NM 87499 ity or well name: SAN JUAN 32-9 UNIT 104 Number: 3004527517 or Qtr/Qtr: G Section: 24 r of Proposed Design: Latitude: 36.97301°N ce Owner: X Federal State Priv Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced er Seams: Welded Factory Other	thod Permit or Closure Plan Application ed-loop system, below-grade tank, or proposed alternative method sed-loop system, below-grade tank, or proposed alternative method existing permit ubmitted for an existing permitted or non-permitted pit, closed-loop proposed alternative method oper individual pit, closed-loop system, below-grade tank or altern operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or ordi OCD Permit Number: 32N Range: Longitude: -107.83096°W NAD: X rate Tribal Trust or Indian Allotment
Type of action: X Permit of a pit, close Closure of a pit, close Modification to an e Closure plan only st below-grade tank, o structions: Please submit one application (Form C-144, Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibil ator: Burlington Resources Oil & Gas Company, LP ess: PO Box 4289, Farmington, NM 87499 ity or well name: SAN JUAN 32-9 UNIT 104 Number: 3004527517 or Qtr/Qtr: G Section: 24 Township: cr of Proposed Design: Latitude: 36.97301°N ce Owner: X Federal State Prix: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Closed-loop System: Subsection H of 19.15.17.11 NMAC	ed-loop system, below-grade tank, or proposed alternative method sed-loop system, below-grade tank, or proposed alternative method existing permit abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method a per individual pit, closed-loop system, below-grade tank or altern operator of liability should operations result in pollution of surface water, ground water or ity to comply with any other applicable governmental authority's rules, regulations or ordi OCD Permit Number: 32N Range: 10W County: San Juan Longitude: County: San Juan mil LLDPE HDPE PVC Other
Closed-loop System: Subsection H of 19 15 17 11 NMAC	sed-loop system, below-grade tank, or proposed alternative method existing permit abmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method oper individual pit, closed-loop system, below-grade tank or altern operator of liability should operations result in pollution of surface water, ground water or ity to comply with any other applicable governmental authority's rules, regulations or ordi OCD Permit Number: 32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: X
Modification to an e Closure plan only su below-grade tank, o structions: Please submit one application (Form C-144, Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibil ator: Burlington Resources Oil & Gas Company, LP ess: PO Box 4289, Farmington, NM 87499 ity or well name: SAN JUAN 32-9 UNIT 104 Number: 3004527517 or Qtr/Qtr: G Section: 24 Township: r of Proposed Design: Latitude: 36.97301°N ce Owner: X Federal State Priv Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced er Seams: Welded Factory Other	<pre>xisting permit ibmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method per individual pit, closed-loop system, below-grade tank or altern operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or ordi OCD Permit Number: 32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: X 1 vate Tribal Trust or Indian Allotment mil LLDPE HDPE PVC Other</pre>
Closure plan only st below-grade tank, o structions: Please submit one application (Form C-144, Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibil ator: Burlington Resources Oil & Gas Company, LP ess: PO Box 4289, Farmington, NM 87499 ity or well name: SAN JUAN 32-9 UNIT 104 Number: 3004527517 or Qtr/Qtr: C Section: 24 Township: er of Proposed Design: Latitude: 36.97301°N ce Owner: X Federal State Priv Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced er Seams: Welded Factory Other	Ibmitted for an existing permitted or non-permitted pit, closed-loop r proposed alternative method Image: permitted pit, closed-loop operator of liability should operations result in pollution of surface water, ground water or ity to comply with any other applicable governmental authority's rules, regulations or ordi OGRID#: 14538 OCD Permit Number: 32N Range: 10W County: San Juan Longitude:
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Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its responsibility or set in the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment. Nor does approval relieve the operator of its responsibility of the environment of the environment of the environment of the environment. Subsection H of 19:15:17:11 NMAC Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced er Seams: Welded Factory Other	operator of liability should operations result in pollution of surface water, ground water or lity to comply with any other applicable governmental authority's rules, regulations or ordi OGRID#: 14538 OCD Permit Number: 32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: X 1 vate Tribal Trust or Indian Allotment mil LLDPE HDPE PVC Other
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Number: 3004527517 or Qtr/Qtr: G Section: 24 Township: or Qtr/Qtr: G Section: 36.97301°N ace Owner: X Federal State Priv Pit: Subsection F or G of 19.15.17.11 NMAC NMAC nporary: Drilling Workover Permanent Permanent Permanent Permanent Permanent Permanent String-Reinforced String-Reinforced String-Reinforced Subsection H of 19.15.17.11 NMAA Glosed-loon System: Subsection H of 19.15.17.11 NMAA Subsection H of 19.15.17.11 NMAA	OCD Permit Number: 32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: X l /ate Tribal Trust or Indian Allotment mil LLDPE HDPE PVC Other
Or Qtr/Qtr: G Section: 24 Township: er of Proposed Design: Latitude: 36.97301°N ec Owner: X Federal State Priv Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced er Seams: Welded Factory Other	32N Range: 10W County: San Juan Longitude: -107.83096°W NAD: X l vate Tribal Trust or Indian Allotment mil LLDPE HDPE PVC Other
Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Pit: Subsection F or G of 19.15.17.11 NMAC nporary: Drilling Workover Permanent Emergency Closed-loop System: Subsection H of 19.15.17.11 NMAC	mil LLDPE HDPE PVC Other
Closed-loop System: Subsection H of 19 15 17 11 NMA	Viture hel Dimensions I w W
Closed-loon System: Subsection H of 19 15 17 11 NMA	Volume:bbl Dimensions Lx W
be of Operation: P&A Drilling a new well	C Workover or Drilling (Applies to activities which require prior approval of notice of intent)
Drying Pad Above Ground Steel Tanks Haul-	off Bins Other
Lined Unlined Liner type: Thickness	mil LLDPE HDPE PVD Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
lume: 120 bbl Type of fluid:	Produced Water
ik Construction material: Metal	
Secondary containment with leak detection X Visible si	dewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls on	y Other
er Type: Thickness mil HDPE	PVC X Other Unspecified
Alternative Method	
Antes Mattre Mitting.	
mittal of an exception request is required. Exceptions must be	submitted to the Santa re Environmental Bureau office for consideration of

 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 <u>4' hog wire fencing topped with two strands barbed wire.</u> 										
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X 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 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: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for const (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	sideration of a	pproval.								
10										
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	XNo								
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	XNo								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo								
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA									
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	F-1									
(Applied to permanent pits)	Yes X 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	XNo								
- 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	XNo								
- 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	XNo								
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo								
Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map	Yes	XNo								
Within a 100-year floodplain - FEMA map	Yes	XNo								

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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.
A Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (remporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - 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 Mäintenance 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
Previously Approved Design (attach conv of design) API
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
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
Previously Approved Operating and Maintenance Plan API
13 Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Hydrogeologic Percet, based upon the sequineering of Descent (1) of S. L
Siting Criteria Compliance Demonstrations have been the
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC
Dike Protection and Structural Integrity Design: hased 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: 19151713 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
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.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC
X 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 Groun	nd Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)	
are required.	riting fluids and drift cuttings. Use attachment if more than two	• facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated ac Yes (If yes, please provide the information No	tivities occur on or in areas that will not be used for future	service and operations?
Required for impacted areas which will not be used for future service and operation	tions:	
Soil Backfill and Cover Design Specification - based upon the app	ropriate requirements of Subsection H of 19.15.17.13 NM.	AC
Site Reclamation Plan - based upon the appropriate requirements of S	Subsection I of 19.15.17.13 NMAC	
	Subsection G of 19.15.17.13 NMAC	
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 Instructions: Each siting criteria requires a demonstration of compliance in the closure certain siting criteria may require administrative approval from the appropriate district for consideration of approval. Justifications and/or demonstrations of equivalency are r	NMAC vlan. Recommendations of acceptable source material are provided be office or may be considered an exception which must be submitted to th equired. Please refer to 19.15.17.10 NMAC for guidence.	low: Requests régarding changes to le Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste		
 NM Office of the State Engineer - iWATERS database search; USGS: Database 	ta obtained from nearby wells	
Ground water is between 50 and 100 feet bylow the between of the barrier		
NM Office of the State Engineer - iWATERS database search: USGS: Database search: Database sear	Waste	Yes No
	robanied from hearby wens	
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 s (measured from the ordinary high-water mark).	ignificant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map: Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or chur- Visual inspection (certification) of the proposed site; Aerial photo; satellite i	ch in existence at the time of initial application. mage	Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le purposes, or within 1000 horizontal fee of any other fresh water well or spring, in - NM Office of the State Engineer - iWATERS database; Visual inspection (c	ss than five households use for domestic or stock watering existence at the time of the initial application. ertification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh was pursuant to NMSA 1978. Section 3-27-3, as amended.	iter well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or vertication from the municipality: Written approv; Within 500 feet of a wetland 	J obtained from the municipality	
 US Fish and Wildlife Wetland Identification map; Topographic map; Visua 	lipspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	inspector (contraction) of the proposed site	
- Written confiramtion or verification or map from the NM EMNRD-Mining	and Mineral Division	
Within an unstable area.		Yes No
- Engineering measures incorporated into the design; NM Bureau of Geology Topographic map	& Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
18		
<u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: E by a check mark in the box, that the documents are attached.	ach of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the approp	priate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate require	ements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based up	on 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 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements	s of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the approp	riate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate require	ments of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling flu:	ids and drill cuttings or in case on-site closure standards car	nnot be achieved)
Soil Cover Design - based upon the appropriate requirements of Sut	section H of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Su	Disection 1 of 19.15.17.13 NMAC	

10			
Operator Application Cer	rtification:		
Thereby certify that the inform	nation submitted with this application is true, acc	urate and complete to th	e best of my knowledge and belief.
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician
Signature:	Crintel Defare	Date:	12/22/2008
e-mail address:	: jatet i knya skonocopretigs com	Telephone:	505-326-9837
20			
OCD Approval: Perm	nit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Sign	ature:		
	÷		Approval Date:
Title:		OCD Per	mit Number:
<u>Closure Report (required</u> Instructions: Operators are re- report is required to be submit approved closure plan has bee	within 60 days of closure completion): Sub quired to obtain an approved closure plan prior ted to the division within 60 days of the completi n obtained and the closure activities have been o	section K of 19.15.17.13 NMA to implementing any clos on of the closure activiti completed.	C sure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an re Completion Date:
Closure Method: Waste Excavation and If different from approv	Removal On-site Closure Method ved plan, please explain.	Alternative Closure	e Method Waste Removal (Closed-loop systems only)
23 Closure Report Regarding W Instructions: Please identify the were utilized	aste Removal Closure For Closed-loop System he facility or facilities for where the liquids, dril	is That Utilize Above G ling fluids and drill cutt	round Steel Tanks or Haul-off Bins Only: ings were disposed. Use atlachment if more than two facilities
Disposal Facility Name:		Disposal Facility	v Permit Number:
Disposal Facility Name:		Disposal Facility	Permit Nuniber:
Were the closed-loop system	n operations and associated activities performed	on or in areas that will n	of be used for future service and opeartions?
Yes (If yes, please dem	onstrate complilane to the items below)	No	
Required for impacted area.	s which will not be used for future service and of	perations:	
Site Reclamation (Phot	o Documentation)		
Be upgetetion Application	over Installation		
Ke-vegetation Application	ion Rates and Seeding Technique		
24 <u>Closure Report Attachm</u> the box, that the documents	nent Checklist: Instructions: Each of the follo a are attached.	owing items must be atta	ached to the closure report. Please indicate, by a check mark in
Proof of Closure Noti	ce (surface owner and division)		
Plot Plan (for on-site	(required for on-site closure)		
Confirmation Samelia	a Analytical Results (if annicable)		
Waste Material Samo	ling Analytical Results (if applicable)		
Disposal Facility Nam	e and Permit Number		
Soil Backfilling and C	Cover Installation		
Re-vegetation Applica	ation Rates and Seeding Technique		
Site Reclamation (Pho	oto Documentation)		
On-site Closure Locat	ion: Latitude:	Longitude:	NAD 1927 1983
25			
Operator Closure Certifica hereby certify that the informa he closure complies with all ap	tion: tion and attachments submitted with this closure plicable closure requirements and conditions spe	report is ture, accurate a cified in the approved cl	and complete to the best of my knowledge and belief. I also certify that losure plan.
Name (Print):		Title:	
Signature:		Date:	
-mail address:		Telephone:	

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	Town	ship:	32N Range:	10W	Sections:				
N	IAD27	X:	Y:		Zone:		Search Radius	8:	
County:			Basin:			Num	ıber:	Suffix:	
Owner Nam	ne: (Firs	st)		(Last)		\bigcirc	Non-Domestic	ODomestic	All
POD) / Surface	e Data	Report	Avg	Depth to Water	Report	Wate	er Column Report	a. elegen

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	1=1	NW 2	?=NE	3=SW 4=S	E)						
	(quarter	s are	big	gges	st to	o smalles	t)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	a d	PI	Zone	х	Y	Well	Water	Column		
SJ 01424	32N	10W	10						164	94	70		
SJ 00528	32N	10W	10	1 1	2				240	100	140		
SJ 00263	32N	10W	10	3 2	2 2				108	50	58		
SJ 01177	32N	10W	10	34	1				83	38	45		
SJ 01688	32N	10W	10	4 3	3 3				23	6	17		
SJ 01153	32N	10W	15	1					100	47	53		
SJ 03078	32N	10W	15	1 2	2 2				. 21	18	3		
SJ 03527	32N	10W	15	1 4	1 1				80				-
SJ 01290	32N	10W	15	3					105	20	85		
SJ 02845	32N	10W	15	3 2	23				11.	5	6		
SJ 01157	32N	10W	15	4 2	2								
SJ 03429	32N	10W	20	3 1	L 3				103	54	49		
SJ 02144	32N	10W	21						87	62	25		
SJ 01512	32N	10W	21	2 3	3				77	67	10		
SJ 00446	32N	10W	21	2 3	3 4				76	60	16		
SJ 03483	32N	10W	21	2 4	11				90				
SJ 02381	32N	10W	21	2 4	13				65				
SJ 01435	32N	10W	21	4	3				70	40	30		
SJ 00489	32N	10W	21	4 4	11				65	30	35		
SJ 03072	32N	10W	22	1 :	1 1				80	62	18		
SJ 02980	32N	10W	22	1 :	13				65	36	29		
SJ 03307	32N	10W	22	1 :	14				60	20	40		
SJ 03000	32N	10W	22	1 :	1 4				105	19	86		
SJ 00153	32N	10W	28	4	1				23	14	9		
SJ 01356	32N	10W	31	3	3				65	50	.15		
SJ 00323	32N	10W	33						25	15	10		
SJ 01546	32N	10W	33	2	23				230	160	70		
SJ 01897	32N	10W	33	2	4				54	25	29		
SJ 00231	32N	10W	33	4					50	27	23		
SJ 01346	32N	10W	33	4	1				70	40	30		
SJ 01222	32N	10W	33	4	1				41	34	7		
SJ 02733	32N	10W	33	4	1 3				28	16	12		

SJ 00860	32N	10W	33	4	2			
SJ 01110	32N	10W	33	4	2	4		
SJ 01577	32N	10W	33	4	3			
SJ 03495	32N	10W	33	4	3	3		
SJ 03568	32N	10W	33	4	3	3		
SJ 03778 POD1	32N	1.0W	33	4	3	4	270831	2159896
SJ 02789	32N	10W	33	4	4	4		
SJ 00718	32N	10W	34	1	3			
SJ 00586	32N	10W	34	3				
SJ 00534	32N	10W	34	3				4
SJ 01490	32N	10W	34	3	1			
SJ 01029	32N	10W	34	3	1			
SJ 03067	32N	10W	34	3	1	1		
SJ 02809	32N	10W	34	3	1	1		
SJ 03672	32N	10W	34	3	1	2		
SJ 02757	32N	10W	34	3	1	2		
SJ 03068	32N	10W	34	3	1	4		
SJ 00921	32N	10W	34	3	3	1		
SJ 01389	32N	10W	34	3	3	1		
SJ 03731 POD1	32N	10W	34	3	3	3		

Record Count: 52

3.1

New Mexico Office of the State Engineer

Page 1 of 1

		New	Mexico () POD Rej	office of the Sta ports and Dow	ate Engine vnloads	eer			
	Township	32N Rang	e: 09W	Sections:				an analas an	
N	IAD27 X:	Y:		Zone:		Search Rad	ius:		
County:		Basin:			Numb	er:	Suff	ix:	
Owner Nam	e: (First)		(Last)		ON	on-Domest	ic OD	Oomestic	All
POD	/ Surface Dat	a Report	Av	g Depth to Wate	er Report	W	ater Colu	ımn Repor	
		Clear	Form	iWATERS M	lenu H	lelp			
			WATER CO	LUMN REPORT	08/20/20	08			
	(quarter	s are 1=NW s are bigge	z=NE 3=2 st to sm	SW 4=SE) mallest)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng Sec q	qq Zo	one X	Y	Well V	Vater	Column	(IN TESC)
GT 03131	2.211	0.014 0.0 0	2 2						

.

Record Count: 1

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AERIAL MAP SAN JUAN 32-9 UNIT 104

ConocoPhillips



--- 584 30-045-2727 DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO Operator Meripian Location: Unit G Sec. 24 Twp 32 Rng 10 Name of Well/Wells or Pipeline Serviced SAN JUAN 32-9 #104 # 67 Elevation 6805 Completion Date 7-17-9 | Total Depth Land Type Casing Strings, Sizes, Types & Depths 8. Puc & 16 SACKS If Casing Strings are cemented, show amounts & types used CEMENT If Cement or Bentonite Plugs have been placed, show depths & amounts used 1 2 NI7. Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 80 Fresh Depths gas encountered: MAGround bed depth with type & amount of coke breeze used: $380' Deer^2$ 53 DAGS OF 4518 Flo COKE (Asbury Depths anodes placed: 360, 349 340, 331, 264, 255 245, 235, 215, 165, 1 Depths vent pipes placed: 380' Vent pipe perforations: <u>80' to</u> 380' FEB2 41992 Remarks: OIL CON. DIV.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

DIST. 3

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

· · · · · · · · · · · · · · · · · · ·	CPS GROUND BED CONSTRUCTION WORKSHEET												
220	3-a	P/L NA	SAN	J JUA	+N 3	2-9 #	104	#67					
"L2	" 1274 TOTAL VOLTE AMPE AMPE - OHME DATE NAME 11.12 17.8 .02 7.17.91 MRW												
REMAR	REMARKS (notes for construction log)												
		RA	' a"		7			,	1				
	SET	80	8	Surf	ace /	DUC	CASING	i H	20 4	IT 80	0		
Ð.	RILLE	0 38	<u>u'</u> 4	0666	031	<u>30΄</u>							
DEPTH	Loa	ANODE	DEPTH	LCO	ANGDE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE		
100	ANODE			ANODE			ANODE			ANDDE			
100	24		300	1.7		490			685		<u>_</u>		
110	2.4		305	.9		500			695				
115	2.7		310	1.0		505			700				
120	1.4		315	1.2		510			ANODE	DEPTH	NO	FULLY	
130	3.8		325	2.1		520			1	360	34	30	
135	3.8		330	2.5	(9)	525			2	349	à.4	4.5	
140	3.5		335	2.8		530			3	340	à. 9	50	
145	e.t.		340	26		535			4	33	37	4.7	
155	3.0		350	2.2	65	545			6	255	3.3	3.9	
160	2.9		355	2.2		550			7	245	2.5	4.2	
65	2.7		360	3.4		555			8	235	a.7	4.3	
175	1.0		365	2.9		565			9	215	2.1	52	
180	11		375	27		570			11	155	3.0	5.6	
185	12		380	1.9		575			12	ामर	32	5.7	
190	- 9		385			580			13				
200	6		395			590			15				
205	11		400			595			16				
210	2.0.		405			600			17				
215	2.1		410			605			18				
225	1.3		420			615			20				
230	1.4		425			620			21				
235	2.6'	- 5	430			625			22				
245	2.5	7	440			635			24]	
250	2.4		445			640			25				
255	23	0	450			645			26			·	
260	20		435			655			27				
270	1.5		465			660			29				
275	1.1		470			665			30				
280			475			670							
285	1.4		485			680							
	1.1								L	L		<u> </u>	

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- Division Corresion Super -- Region Correcton Specialist

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Company	DIAN AI		Sample No.	Date Sampled	
Field	Legal	Description	County or Parish	State	
Lease or Unit		-0 # 11/	Depth Formation	Water, B/D	TECH
Type of Waler (Produced, Sup GROUND BE		Sampling Poin		Sampled By	333 East Farmi
ISSOLVED SOLIDS	<u></u>		OTHER PROPERTIES		New N
ATIONS	mg/l	me/I	рН	8.0	505/32
odium, Na (calc.) alcium, Ca Iagnesium, Mg	<u> </u>	130 1,2 1,4	Specific Gravity, 60/60 F. Resistivity (ohm-meters) 72'F.	1.0089	
arium, Ba					
			Total Dissolved So	lids (calc.)	
NIONS				1600	
hloride. Cl ulfate. So₄	14:00	40	Iron, Fe (total) Sullide, as H ₂ S		
icarbonate, HCO ₃	4100	61			
1					
25 20	15 10	5 0	5 10 15	20 25	
20 10 10 10 10 10 10 10 10 10 10 10 10 10		MININ			
Co		┼┼┼┼┼┼┼┝┪╎┼┼		нсоз	
Mg				<u>50</u> 4	
₽ ₽		**********		<u></u>	
Date Received	Preserved	l D	ate Analyzed	Analyzed By	-

Mines, Mills and Quarries Web Map

SAN JUAN 32-9 UNIT 104

Unit Letter: G, Section: 24, Town: 032N, Range: 010W







SAN JUAN 32-9 UNIT 104

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 32-9 UNIT 104', which is located at 36.97301 degrees North latitude and 107.83096 degrees West longitude. This location is located on the Mount Nebo 7.5' USGS topographic quadrangle. This location is in section 24 of Township 32 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 3.9 miles to the southwest. The nearest large town (population greater than 10,000) is Durango, located 21.0 miles to the north (National Atlas). The nearest highway is US Highway 550, located 2.5 miles to the northwest. The location is on BLM land and is 8,964 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 2077 meters or 6812 feet above sea level and receives 15.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 185 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 409 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 5,222 feet to the west. The nearest water body is 5,211 feet to the west. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 4,954 feet to the southeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2,903 feet to the southeast. There is no wetland data available for this area. The slope at this location is 14 degrees to the southwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION -- Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Rock outcrop-Travessilla-Weska complex, extremely steep' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 3.5 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

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- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



PROPERTIES	TEST METHOD		3088 S	6 1 1 1 1 1 1 1 1 1 1 1	ebdour et		
and and the first statement of the state of	on dalla dalla i di la tea onsi dalla si	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll	5EE Typical Roll
Appearance		Bla	ck/Black	Blac	k/Black	Blaci	/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	15
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30 24)
Construction		**Ext	trusion laminate	d with encapsula	ated tri-direction	al scrim reinfor	(00.2.4)
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 ibs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction

DD = Diagonal Directions

Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: IFAMEN INDUSTRIES MAKES NO IMARRANTIES AS TO THE FITMESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO: no pagentee of substactory results from resultde upon contained information or recommendations and used ams all upper y for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX 800-635-3456

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method that the division approves, does not exceed 50 mg/kg; and the chloride concentration, as determined by EPA method 50.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. 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.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice