District 1	State of New Mexico	Form C-144
	and Natural Resources	July 21, 2008
REGISTERED	partment rvation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
UNIL KIO BERZOS KAL AZTEC NML X/ALL	h St. Francis Dr.	For normanent nits and excentions submit to the Santa Fe
District IV 1220 S. St. Francis Dr., Santa Fe, NM, 87505	Santa FE, INIVI 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Pit. Closed	-Loop System, Below-Grad	e Tank, or
Proposed Alternati	ve Method Permit or Closur	e Plan Application
Type of action: X Permit of a	pit, closed-loop system, below-grade ta	ank, or proposed alternative method
	a pit, closed-loop system, below-grade on to an existing permit	tank, or proposed alternative method
Closure pla below-grad	in only submitted for an existing permit te tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (For	m C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request
Please be advised that approval of this request does no environment. Nor does approval relieve the operator of it:	t relieve the operator of liability should operations re s responsibility to comply with any other applicable	ssult in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
Derator: Burlington Resources Oil & Gas Compa	any, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499		
Facility or well name: SAN JUAN 27-4 UNIT 98A		
API Number: 3003926008	OCD Permit Number	n
U/L or Qtr/Qtr: D Section: 10 To	ownship: 27N Range: 4	W County: Rio Arriba
Center of Proposed Design: Latitude: 36.	59132°N Longitude:	-107.243°W NAD: X 1927 1983
Surface Owner: X Federal State	Private Tribal Trust or Indian	Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P& Lined Unlined Liner type: Thick String-Reinforced Liner Seams: Welded Factory Other	er Volume:	HDPE PVC Other
3 Closed-loop System: Subsection H of 19.15.17 Type of Operation: P&A Drilling a new of the section H of 19.15.17 Drying Pad Above Ground Steel Tanks Lined Unlined Liner type: Liner Seams: Welded Factory	.11 NMAC well Workover or Drilling (Applies to notice of intent) Haul-off Bins Other nessmil LLDPE H	activities which require prior approval of a permit or DPE PVD Other
4 X Below-grade tank: Subsection I of 19.15.17.11 N Volume: 120 bbl Type of 10.15.17.11 N Tank Construction material:	IMAC fluid: <u>Produced Water</u> Metal Visible sidewalls, liner, 6-inch lift and auto ewalls only Other HDPE PVC XOther U	omatic overflow shut-off
5 Alternative Method:		
Submittal of an exception request is required. Exception	is must be submitted to the Santa Fe Enviro	nmental Bureau office for consideration of approval.
Earra C 144	Oil Conservation Division	Page 1 of 5

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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, ins Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4 hog wire fencing topped with two strands barbed wire. 7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) 8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24". 2" tettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC	titution or chu	rch)
 9 <u>Administrative Approvals and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19:15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> [X] Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. [Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	sideration of a	pproval.
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)		
- Visual inspection (certification) of the proposed site: Aerial photo: Satellite image		
Within 1000 foot from a normanant and down asked by 10.4 to 10		
(Applied to permanent pits)	Yes XNA	L]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 - Written confirmation or verification from the municipality: Written approval obtained from the municipality.	Yes	XNo
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	res	AINO
Within a 100-year Noodplain FEMA map	Yes	XNo

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□ 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 ?roposed Closure: 19.15.17.13 NMAC nstructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan. ['ype:] Drilling] Workover] Emergency] Cavitation] P&A] Permanent Pit] Below-grade Tank] Closed-loop System □ Alternative Proposed Closure Method:] Waste Excavation and Removal (Below-Grade Tank) □ Posted Closure Method:] Waste Excavation and Removal (Below-Grade Tank) □ 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. ?!ease 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 [X] Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC [X] Soil Backfill and Cover Design Specifications - based upon the appropriate	Emergency Response Plan	
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	X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of	19.15.17.13 NMAC

¹⁶ Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions: Please identify the facility or facilities for the disposal of liquids, a are required.	nd Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) drilling fluids and drill cuttings. Use attachment if more than two) facilities
Disposal Facility Name:	Disposal Facility Parmit #.	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated a	clivities occur on or in aroun that will us a hore of Conference	
Yes (If yes, please provide the information No	cuvities 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 open Soil Backfill and Cover Design Specification - based upon the ap Re-vegetation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements	ations: propriate requirements of Subsection H of 19.15.17.13 NM. Subsection L of 19.15.17.13 NMAC 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 certain siting criteria may require administrative approval from the appropriate distric for consideration of approval. Justifications and/or demonstrations of equivalency are	plan. Recommendations of acceptable source material are provided be t office or may be considered an exception which must be submitted to th required. Please refer to 19.15.17.10 NMAC for guidance.	low. Requests regarding changes to te Santa Fe Environmental Bureau office
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: Da	ta obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried	wate	
 NM Office of the State Engineer - iWATERS database search: USGS: Da 	waste ta obtained from nearby wells	
NM Office of the State Engineer, WATERS, Just and LUCCE D		Yes No
- WW Office of the State Engineer - IWATERS database search; USGS; Dat	a obtained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other : (measured from the ordinary high-water mark).	significant 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 chu - Visual inspection (certification) of the proposed site; Aerial photo: satellite	rch in existence at the time of initial application. image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that l purposes, or within 1000 horizontal fee of any other fresh water well or spring, i - NM Office of the State Engineer - iWATERS database; Visual inspection (ess than five households use for domestic or stock watering n existence at the time of the initial application. certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh w pursuant to NMSA 1978. Section 3-27-3, as amended.	ater well field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland	al obtained from the municipality	
 US Fish and Wildlife Wetland Identification map: Topographic map; Visual 	al inspection (certification) of the proposed site	
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining	and Mineral Division	Yes No
Within an unstable area.	& Mineral Baugureau LICCE, NM Contraint Day	Yes No
Topographic map	a mineral resources, 0303, NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: I by a check mark in the box, that the documents are attached.	Each of the following items must bee attached to the closu	re plan. Please indicate,
Proof of Surface Owner Notice - based upon the appropriate require	priate requirements of 19.15.17.10 NMAC	
Construction/Design Plan of Rurial Transh (if annlighte) based we	on the appropriate requirements of 10.15 17.13 NMAC	
Construction/Design Flat of Temperer Nic (Grain Lands) based up	on me appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requirements	orying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Confirmation Sampling Plan (if applicable), based upon the appropriate	IS 0F 17.13.17.13 INVIAC	
Waste Material Sampling Plan, based upon the appropriate again	mante of Subsection F of 10.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquide deiling of	anons of Subsection P 01 19.15.17.13 NMAC	
Suppose racinty name and remainder (for inquids, drilling fit	hus and utill cuttings or in case on-site closure standards car	nnot 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

19 Observator Application Contifications	
Observator Application Contification	
 <u>vpremos syptication vertification:</u> (basiles entitie double for annual entities to be at the transmission of transmission o	
None (Print):	
Regulatory Technician	
Signature: <u>Uplet Safaye</u> Date: <u>12/22/2008</u>	
e mail address: <u>17751a/1415ya@conoccopullips.com</u> Telephone: 505-326-9837	
20 OCD Approval: Permit Application (including closure plan) C (losure Plan (only) COCD Conditions (say attractional model)	
Costile r fair (only) [] Costile r fair (only) [] Costile r fair (only)	
OCD Representative Signature: Approval Date:	_
Title: ()CD Parmit Number:	
21	
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	
22 Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.	
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Were utilized. Disposal Facility Name: Disposal Facility Name: Disposal Facility Name: Disposal Facility Permit Number:	ies
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and opeartions?	
I res (if yes, please demonstrate compliane to the items below)	
Required for impacted areas which will not be used for future service and operations:	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24 <u>Closure Report Attachment Checklist:</u> Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark the box, that the documents are attached.	t in
Proof of Closure Notice (surface owner and division)	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if analytical)	
Waste Material Sampling Analytical Results (if applicable)	
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude: Longitude: NAD 1927 1983	
25	
Operator Closure Certification: Thereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. Talso ce the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	ertify that
Name (Print): Title	
Date:	
e-mail address: Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads							
Township: 27N Range: 04W Sections:							
NAD27 X: Y: Zone: Search Radius:							
County: Basin: Number: Suffix:							
Owner Name: (First) (Last) CNon-Domestic CDomestic All							
POD / Surface Data Report Avg Depth to Water Report Water Column Report							
Clear Form iWATERS Menu Help							
WATER COLUMN REPORT 08/20/2008 (quarters are 1=NW 2=NE 3=SW 4=SE)							

	(quarter	s are	e bi	gge	est	t to	smallest)			Depth	Depth	Water (i	n
POD Number	Tws	Rng	Sec	g	g	g	Zone	х	Y	Well	Water	Column	
SJ 00048	27N	04W	01							143			
SJ 01049	27N	04W	18	4	2	2				15			
SJ 01205	27N	04W	34	4	4	4				3054	750	2304	

Record Count: 3





Mines, Mills and Quarries Web Map

SAN JUAN 27-4 UNIT 98A

Unit Letter: D, Section: 10, Town: 027N, Range: 004W



SAN JUAN 27-4 UNIT 98A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 27-4 UNIT 98A', which is located at 36.59132 degree, North latitude and 107.243 degree, West longitude. This location is located on the Pine Lake 7.5' USGS topographic quadrangle. This location is in section 10 of Township 27 North Range 4 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Dulce, located 27.3 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 54.4 miles to the west (National Atlas). The nearest highway is State Highway 537, located 5.6 miles to the southeast. The location is on National Forest land and is 7,528 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 2086 meters or 6842 feet above sea level and receives 14.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 4 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 322 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 2,413 feet to the south. The nearest water body is 2,551 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 4,276 feet to the southwest. 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 10,144 feet to the north. The nearest wetland is an 85.7 acre Ravine located 329 feet to the northwest. The slope at this location is 17 degree, to the west 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. There is no SSURGO soil data available for this location. The nearest underground mine is 17.4 miles to the north 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:

- 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
- 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.



DURA-SKRIM®

J30, J36 a J45

PROPERITES	TEST METHOD		30BB	J	688	1458B		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll	Typical Roll	
Appearance		Bla	ck/Black	Blac	k/Black	Plas	Averages	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	200 1	Diac		
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18 14)	140 lbs	151 lbs	168 lbs	40 mil 4	45 mil	
Construction		(10.14)	(20.16)	(21.74)	(24.19)	(27.21)	(30.24)	
Ply Adhesion		EX	rusion laminate	d with encapsul	ated tri-directio	nal scrim reinfo	cement	
	ASIM D 413	16 lbs	20 lbs	19 lbs	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	
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	750 MD	
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	
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	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5		131 101 00	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	CE IL		<1	<0.5	
Maximum Use Temperature		180° E	1001 5	101 CO	83 lbf	80 lbf	99 lbf	
Winimum Use Temperature			180" F	180° F	180° F	180° F	180° F	
D = Machine Direction		-/0° F	-70° F					

DD = Diagonal Direction

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: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability 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 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 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:

- 1. 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 of 19.15.17.11 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 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 division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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, nonwaste 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 belowgrade 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