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District I	State of New Mexico	Form C-144
Rozo N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	July 21, 2008 For temporary pits closed loop sytems and below-grade
District II 1301 W. Grand Ave., Artesia, NM 88210	Oil Conservation Division	tanks, submit to the appropriate NMOCD District Office.
District III	1220 South St. Francis Dr.	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grade	e Tank, or
Propos	sed Alternative 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
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one of	application (Form C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request
Please be advised that approval a environment. Not does approval re-	of this request does not relieve the operator of liability should operations re- lieve the operator of its responsibility to comply with any other ambigable.	sult in pollution of surface water, ground water or the
	the operator of its responsionly to comply with any other applicable (	governmental autority's rules, regulations of orunances.
Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: <b>QUANTIUS</b>	3	
API Number:	OCD Permit Number	·
U/L or Qtr/Qtr: A Secti	on: <u>26</u> Township: <u>26N</u> Range: <u>7</u>	W County: Rio Arriba
Center of Proposed Design: Latitud	e: <u>36.46188°N</u> Longitude:	-107.53842°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or Indian	Allotment
2		
Pit: Subsection F or G of 19.15.1	7.11 NMAC	
Temporary: Drilling Wo		
Permanent Emergency (	Cavitation P&A	
		HDPE PVC Other
Liner Seams: Welded F	actory Other Volume:	bbl Dimensions L x W x D
3		
L Closed-loop System: Subsec	tion H of 19.15.17.11 NMAC	
	notice of intent)	activities which require prior approval of a permit or
Drying Pad Drying Grou	ind Steel Tanks 🔲 Haul-off Bins 🗌 Other	
Lined Unlined Line	er type: Thicknessmil LLDPE H	DPE PVD Other
Liner Seams: Welded F	actory Other	
4		
X Below-grade tank: Subsection	l of 19.15.17.11 NMAC	
Volume: <u>120</u> b	bl Type of fluid: Produced Water	
Tank Construction material:	Metal	
Secondary containment with leak d	etection XVisible sidewalls, liner, 6-inch lift and auto	matic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	
Liner Type: Thickness	mil HDPE PVC X Other U	aspecified
5 Alternative Mathed	- 4934 dara men	
Anernative method:		
Submittal of an exception request is re-	quired. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.

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<ul> <li>Fracting: Subsection D of 19.15.17.11 NMAC (Applies to permatent pit, temporary pits, and below-grade tanks)</li> <li>Chanclink, 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)</li> <li>Dour toot height, four strands of barbed wire eventy spaced between one and four feet</li> <li>Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u></li> </ul>						
Netting:       Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)         X       Screen       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" 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 control (Fencing/BGT Liner)         Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	sideration of ap	pproval.				
10 <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria dues 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 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site: Aerial photo: Satellite image	Yes XNA	No				
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	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 endingers.		<b>V</b> IN				
adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality		X]No				
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	T Yes	XNo				

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Temporary Pits, Emer Instructions: Each of the f	gency Pits and Below-grade Tank following items must be attached to the c	s Permit Application A	tachment Checklist: Subsect y, by a check mark in the box, the	tion B of 19.15.17.9 NMAC it the documents are attached.
X Hydrogeologic R	eport (Below-grade Tanks) - based u	pon the requirements of	Paragraph (4) of Subsection B	of 19.15.17.9 NMAC
Itydrogeologic D	ata (Temporary and Emergency Pits)	) - based upon the require	ments of Paragraph (2) of Sul	osection B of 19.15.17.9
X Siting Criteria Co	ompliance Demonstrations - based up	pon the appropriate requi	rements of 19,15,17,10 NMA0	
X Design Plan bas	ed upon the appropriate requirement	ts of 19.15.17.11 NMAC		
X Operating and Ma	aintenance Plan - based upon the app	propriate requirements of	19.15.17.12 NMAC	
X Closure Plan (Ple 19.15.17.9 NMA	ase complete Boxes 14 through 18, i C and 19.15.17.13 NMAC	if applicable) - based upo	n the appropriate requirements	s of Subsection C of
Previously Approved	Design (attach copy of design)	API	or Permi	t
12 <u>Closed-loop Systems P</u> Instructions: Each of the Jo Geologic and Hyo	ermit Application Attachment Ch ottowing items must be attached to the a frogeologic Data (only for on-site ch	ecklist: Subsection B of 1 pplication. Please indicate (sourc) - based upon the re	9.15.17.9 NMAC by a check mark in the box, that quirements of Paragraph (3) o	the documents are attached. f Subsection B of 19.15.17.9
Design Plan - bas	ed upon the appropriate requirement	on-site closure) - based up is of 19.15.17.11 NMAC	on the appropriate requirement	nts of 19.15.17.10 NMAC
Operating and Ma	aintenance Plan - based upon the app	mopriate requirements of	19.15.17.12 NMAC	
Closure Plan (Ple NMAC and 19.15	ase complete Boxes 14 through 18, i 5.17.13 NMAC	f applicable) - based upo	the appropriate requirements	of Subsection C of 19.15.17.9
Previously Approved	Design (attach copy of design)	API		
Previously Approved	Operating and Maintenance Plan	API	- <u></u> .	
Instructions: Each of the p	following items must be attached to the eport - based upon the requirements of the second seco	application. Please indication of Paragraph (1) of Subse	te, by a check mark in the box, t ction B of 19.15.17.9 NMAC	hat the documents are attached.
Siting Criteria Co	mpliance Demonstrations - based up	on the appropriate requir		
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to <u>Waste Removal Closure For Closed-loop Systems That Utilia</u> Instructions: Please identify the facility or facilities for the disp- are required.	te Above Ground Steel Tanks or Haul-off Bins Only: (19-15.17.13.D NMAC) scal of liquids, drilling fluids and drill 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 activities occur on or in areas that will not be used for future	service and operations?
Council for impacted areas which will not be used for future se     Soil Backfill and Cover Design Specification - base     Re-vegetation Plan - based upon the appropriate rea     Site Reclamation Plan - based upon the appropriate	INO provide and operations: d upon the appropriate requirements of Subsection H of 19.15.17.13 NM/ quirements of Subsection 1 of 19.15.17.13 NMAC requirements of Subsection G of 19.15.17.13 NMAC	AC
17 Siting Criteria (Regarding on-site closure methods only Instructions: Each siting criteria requires a demonstration of complian certain sating criteria may require administrative approval from the ap for consideration of approval. Justifications and/or demonstrations of	(: 19.15.17.10 NMAC we in the closure plan. Recommendations of acceptable source material are provided be propriate district office or may be considered an exception which must be submitted to th equivalency are required. Please refer to 19.15.17.10 NMAC for guidance	low, Requests regarding changes to e Santa Fe Environmental Rureau office
Ground water is less than 50 feet below the bottom of the h	nuried waste.	Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database set</li> </ul>	urch; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the botton	n of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database sea	rch: USGS; Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of th	e buried waste.	Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database sea</li> </ul>	rch; USGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 fe (measured from the ordinary high-water mark).	et of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
<ul> <li>Topographic map: Visual inspection (certification) of the p</li> </ul>	roposed site	
Within 300 feet from a permanent residence, school, hospital, ins - Visual inspection (certification) of the proposed site; Aerial	stitution, or church in existence at the time of initial application. photo; satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water wel purposes, or within 1000 horizontal fee of any other fresh water t - NM Office of the State Engineer - iWATERS database; Vis	or spring that less than five households use for domestic or stock watering well or spring, in existence at the time of the initial application, ual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined mu pursuant to NMSA 1978. Section 3-27-3, as arrended.	inicipal fresh water well field covered under a municipal ordinance adopted	Yes No
<ul> <li>Within 500 feet of a wetland</li> <li>US Fish and Wildlife Wetland Identification map: Topogra</li> </ul>	written approval obtained from the municipality phic map: Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM E	MNRD-Mining and Mineral Division	Yes No
Within an unstable area. - Engineering measures incorporated into the design; NM Bu Theory additional statements of the statement of the sta	reau of Geology & Mineral Resources; USGS; NM Geological Society:	Yes No
Within a 100-year floodplain. - FEMA map		Yes No
15	······	<u></u>
<b>On-Site Closure Plan Checklist:</b> (19.15.17.13 NMAC) I by a check mark in the box, that the documents are attach	nstructions: Each of the following items must bee attached to the closured.	re plan. Please indicate.
Siting Criteria Compliance Demonstrations - based 1	pon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the app	ropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applic	able) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in p	lace burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropria	the requirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based u	pon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appr	opriate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liqu	ids, drilling fluids and drill 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

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Operator Application (	ertification:			
Name (Driet)	Construction submuted with this appreciation is true, accu	urate and complete to the	best of my knowledge and belief.	
		Inte:	Regulatory Technician	
Signature:	- mptal / along	Date:	12/22/2008	
e-mail address:		Telephone:	505-326-9837	
20   OCD Approval:   DP	rmit Application (including closure plan)	Closure Plan (only)		
		chosure r lan (only)		
OCD Representative Sig	znature:		Approval Date:	
Title				
		OCD Ferm		
21		·····		
Closure Report (require	ed within 60 days of closure completion): Sub-	section K of 19.15.17.13 NMAC		
Instructions: Operators are	required to obtain an approved closure plan prior t	o implementing any closu	re activities and submitting the closure report. The closure	
report is required to be sub- approved closure plan has t	nified to the division within 60 days of the completio been obtained and the closure activities have been c	on of the closure activities connieted	s. Please do not complete this section of the form until an	
			Completion Deter	
			Completion Date:	
22				
Closure Method:		_	_	
Waste Excavation a	nd RemovalOn-site Closure Method	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
If different from app	roved plan, please explain.			
23				
Closure Report Regarding	Waste Removal Closure For Closed-loop System	<u>s That Utilize Above Gr</u>	ound Steel Tanks or Haul-off Bins Only:	
Instructions: Please identif, were utilized	v the facility or facilities for where the liquids, drili	ling fluids and drill cuttir	ngs were disposed. Use attachment if more than two facilities	
Disposal Facility Name:		Disposal Eacility	Permit Number	
Disposal Facility Name:		Disposal Facility	Permit Number	
Were the closed-loop sys	tem operations and associated activities performed (	on or in areas that will not	t be used for future service and opeartions?	
Yes (If yes, please d	emonstrate complilane to the items below)	No	F	
Required for impacted as	reas which will not be used for future service and op	perations:		
Site Reclamation (Pl	toto Documentation)			
Soil Backfilling and	Cover Installation			
Re-vegetation Appli	cation Rates and Seeding Technique			
34				
Closure Report Attac	hment Checklist: Instructions: Each of the follo	owing items must be attac	ched to the closure report. Please indicate, by a check mark in	1
Proof of Closure N	nts are analytical			
Proof of Deed Noti	ice (required for on-site closure)			
Plot Plan (for on-si	te closures and temporary pits)			
Confirmation Sam	oling Analytical Results (if applicable)			
Waste Material Sa	mpling Analytical Results (if applicable)			
Disposal Facility N	ame and Permit Number			
Soil Backfilling and	d Cover Installation			
Re-vegetation Appl	lication Rates and Seeding Technique			
Site Reclamation (I	Photo Documentation)			
On-site Closure Lo	cation: Latitude:	Longitude:	NAD 1927 1983	
25				<b></b> .,
<b>Operator Closure Certifi</b>	cation:			
I hereby certify that the infor	mation and attachments submitted with this closure	report is ture, accurate a	nd complete to the best of my knowledge and belief. I also certify that	Ì
the closure complies with all	applicable closure requirements and conditions spe	wified in the approved clo	osure plan,	
Name (Print):		Title:		
Signature:		Date:		
e-mail address:		Talanha-a-		
- Jun 1998 535.				

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New Mexico Office of POD Reports a	f the State Engineer nd Downloads
Township: 26N Range: 07W Sect	lons:
NAD27 X: Y: Zo	ne: Search Radius:
County: Basin:	✓ Number: Suffix:
Owner Name: (First) (Last)	C Non-Domestic C Domestic  € All
POD / Surface Data Report Avg Depth	to Water Report Water Column Report
Clear Form IWA	TERS Menu Help

#### WATER COLUMN REPORT 08/20/2008

#### (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)					Depth	Depth	Water	(in					
POD Number	Tυ	s Rng	Sec	q	đ	đ	Zone	x	Y	Well	Water	Column	
SJ 02409	26	N 07W	01	1	2	2				700	400	300	
SJ 02402	26	N 07W	05	3	3	2				36	18	18	
SJ 00071	26	N 07W	15	4	1	2				365	26	339	
SJ 00070	26	N 07W	15	4	2	3				335	22	313	
SJ 02406	26	N 07W	30	3	2	1				280	180	100	

Record Count: 5





# Mines, Mills and Quarries Web Map

### **QUANTIUS 3**

Unit Letter: A, Section: 26, Town: 026N, Range: 007W





#### **QUANTIUS 3**

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'QUANTIUS 3', which is located at 36.46188 degree, North latitude and 107.53842 degree, West longitude. This location is located on the Smouse Mesa 7.5' USGS topographic quadrangle. This location is in section 26 of Township 26 North Range 7 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 Nageezi, located 17.7 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 41.6 miles to the northwest (National Atlas). The nearest highway is State Highway 403, located 5.4 miles to the southeast. The location is on BLM land and is 4,342 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 1990 meters or 6527 feet above sea level and receives 10.5 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 361 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 281 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,574 feet to the southeast. The nearest water body is 2,257 feet to the northeast. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 13,872 feet to the east. 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 6,376 feet to the northeast. The nearest wetland is a 0.2 acre Other located 1,697 feet to the northeast. The slope at this location is 4 degree, to the northwest 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 'Orlie fine sandy loam, 1 to 8 percent slopes' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 26.2 miles to the southwest 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 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.



# DURA-SKRIM®

# J30, J36 & J45

PROPERTIES	TEST METHOD	J30BB		12	600			
		Min fall		330BB		J45BB		
		Averages	Averages	Min. Roll Averages	Typical Roll Averages	Mín. Roll Averages	Typical Roll	
Appearance		Blac	:k/Black	Black/Black		Black	/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 ibs (24.19)	189 lbs (27,21)	210 /bs (30 24)	
Construction		**Extr	rusion laminated	with encapsula	L ited tri-direction	L	Cement	
Ply Adhesion	ASTM 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 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 ibf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 /bf 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 ibf MĐ 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		99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-70° F		-70° F	-70° F	-70° E	70% 5	
ID a Machine Direction		·				-101	-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: 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 safe 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:

- 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 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; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg; or other EPA method 300.1 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.
- 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

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

# **19.15.17.10 NMAC SITTING REQUIREMENTS**

- ✓ New Mexico Office of State Engineer attachment
- USGS TOPO map
- 🖌 Aerial Map
- ✓ Mines, Mills and Quarries Map
- FIRM map (flood insurance rate map from Federal Emergency Agency)

# **19.15.17.11 NMAC DESIGN PLAN CONTENTS**

Below Grade Tank Design and Construction Plan

# **19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN**

Below Grade Tank Operating and Maintenance Plan

# 19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

# **REGISTRATION DATE:**

09/30/2015

# NOTES: