District 1 1625 N. French Dr., Hobbs. NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec. NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks. submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grad	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 t Closure of a pit, closed-loop system, below-grade Modification to an existing permit Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	ank, or proposed alternative method tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Please be advised that approval of environment. Nor does approval ref	of this request does not relieve the operator of liability should operations r lieve the operator of its responsibility to comply with any other applicable	esult in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
I Burlington Resources O Address: PO Box 4289, Farmington	il & Gas Company, LP on, NM 87499	OGRID#: 14538
Facility or well name: SAN JUAN	28-6 UNIT 209M	
API Number:	OCD Permit Numbe	r:
U/L or Qtr/Qtr: I Secti Center of Proposed Design: Latitud Surface Owner: X Federal	on: 15 Township: 27N Range: 0 e: 36.57198°N Longitude:	5W County: Rio Arriba -107.44742°W NAD: X 1927 1983 n Allotment
Pit: Subsection F or G of 19.15.1 Temporary: Drilling Word Permanent Emergency O Lined Unlined String-Reinforced Liner Seams: Welded	7.11 NMAC rkover Cavitation P&A iner type: Thickness mil LLDPE factory Other Volume:	HDPE PVC Other bbl Dimensions L x W x D
3 Closed-loop System: Subsec Type of Operation: P&A [Drying Pad Above Group Above Group Lined Unlined Lined Liner Seams: Welded F	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE H actory Other	activities which require prior approval of a permit or
4 X Below-grade tank: Subsection Volume: 120 b Tank Construction material:	I of 19.15.17.11 NMAC bbl Type of fluid: <u>Produced Water</u> <u>Metal</u> letection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other <u>mil</u> HDPE PVC X Other L	omatic overflow shut-off
S Alternative Method: Submittal of an exception request is re	quired. Exceptions must be submitted to the Santa Fe Enviro	nmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

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 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chan link, six feet in height, two strands of baibed wire at top (Required if located within 1000 feet of a permanent residence, school, hospita Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' hog wire fencing topped with two strands have been devended by the strands of barbed. 	l. institution or church)							
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" 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 consideration of approval. (Fencing/BGT Liner)								
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10								
Sitting 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 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 account is the interview of the second state of the sec								
Within 500 horizonal feet of a private demont for the proposed site; Aerial photo; Satellite image								
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 municipal term	Yes XNo							
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the property data in the second statement of the property data in the second statement	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 X No							
Within a 100-year floodplain FEMA map	Yes XNo							

* []				
Instructions: Each of the fo	<u>gency Pits and Below-grade Tanks F</u> Howing items must be attached to the app	Permit Application Att dication. Please indicate	achment Checklist: Subsection B of 19.15.17.9 NMAC	
X Hydrogeologic Re	port (Below-grade Tanks) - based upo	n the requirements of P	ey in check mark in the box, that the documents are attached.	
Hydrogeologic Da	ta (Temporary and Emergency Pits) -	based upon the requirer	nents of Paragraph (2) of Subsection B of 19.15.17.9 NMAC	
X Siting Criteria Cor	upliance Demonstrations - based upor	the appropriate require	ments of 10.15.17.10 NIMAAC	
X Design Plan - base	d upon the appropriate requirements c	of 1945 17 LUNMAC	incus of 17.13.17.10 NMAC	
X Operating and Mai	intenance Plan - based upon the approx	priate requirements of t	0 15 17 12 NIMAG	
X Closure Plan (Plea	se complete Boxes 14 through 18 if a	policable) - based upon	4.15.17.12 NMAC	
19.15.17.9 NMAC	and 19.15.17.13 NMAC	pricable / · based upon	the appropriate requirements of Subsection C of	
Previously Approved I	Design (attach copy of design)	API	(ir Permit	
12 Closed-loop Systems Per Instructions: Each of the fol Geologic and Hydr Siting Criteria Com Design Plan - based Operating and Main Closure Plan (Pleas)	rmit Application Attachment Check lowing items must be attached to the appli- ogeologic Data (only for on-site closur upliance Demonstrations (only for on-s d upon the appropriate requirements of intenance Plan - based upon the approp- ie complete Boxes 14 through 18, if ap	Jist: Subsection B of 19, ication. Please indicate, f re) - based upon the requ site closure) - based upon f 19,15,17,11 NMAC triate requirements of 19 pplicable) - based upon t	15.17.9 NMAC by a check mark in the box, that the documents are attached. tirements of Paragraph (3) of Subsection B of 19.15.17.9 n the appropriate requirements of 19.15.17.10 NMAC 0.15.17.12 NMAC he appropriate requirements of Subsection C of 19.15.17.9	
Principusty Approximately				
Previously Approved D	esign (attach copy of design)	AP1		
Previously Approved O	perating and Maintenance Plan	API		
Permanent Pits Permit A Instructions: Each of the fol Hydrogeologic Repo Siting Criteria Com Climatological Facto Certified Engineerin Dike Protection and Leak Detection Desi Liner Specifications Quality Control/Qual Operating and Maint Freeboard and Overto Nuisance or Hazardo Emergency Response Oil Field Waste Strea Monitoring and Inspe Erosion Control Plan Closure Plan - based	pplication Checklist: Subsection B lowing items must be attached to the app ort - based upon the requirements of Pa bliance Demonstrations - based upon the ors Assessment g Design Plans - based upon the appro Structural Integrity Design: based upo gn - based upon the appropriate require and Compatibility Assessment - based lity Assurance Construction and Install enance Plan - based upon the appropri opping Prevention Plan - based upon the us Odors, including H2S, Prevention I e Plan am Characterization ection Plan	of 19.15.17.9 NMAC dication. Please indicate, aragraph (1) of Subsection he appropriate requirements of on the appropriate requirements of 19.15.17.11 I upon the appropriate re- lation Plan iate requirements of 19. he appropriate requirements plan	by a check mark in the box, that the documents are attached. on B of 19.15.17.9 NMAC ents of 19.15.17.10 NMAC 19.15.17.11 NMAC ements of 19.15.17.11 NMAC NMAC equirements of 19.15.17.11 NMAC 15.17.12 NMAC ents of 19.15.17.11 NMAC	
14 Proposed Closures 10.15.2	212 ND440			
Instructions: Please complete	the applicable boxes, Boxes 14 through 1	8, in regards to the prov	sed clasure plan	
Type: Drilling Worl	kover Emergency Cavitation	P&A Permane	nt Pit X Below-grade Tank Closed-loop System	
Proposed Closure Method:	X Waste Excavation and Removal	(Below-Grade Tan	k)	
	On-site Closure Method conty for the	is uniy)		
		inpurary pits and closed-	(oop systems)	
í	Alternative Closure Method (Event	ions must be submitted at	o the Seate F. C. J.	
15		ions must be submitted f	o the Santa Fe Environmental Bureau for consideration)	
Waste Excavation and Rem Please indicate, by a check mar X Protocols and Procedur X Confirmation Sampling X Disposal Facility Name X Soil Backfill and Cover	oval Closure Plan Checklist: (19.15.1 k in the box, that the documents are attac res - based upon the appropriate requir g Plan (if applicable) - based upon the e and Permit Number (for liquids, drift r Design Specifications - based upon the	17.13 NMAC) Instruction ched. ements of 19.15.17.13 appropriate requiremen ing fluids and drill cutti the appropriate requirement	s: Each of the following items must be attached to the closure NMAC is of Subsection F of 19.15.17.13 NMAC ngs)	plan.
X Re-vegetation Plan - ba	sed upon the appropriate requirements	of Subsection Lof 10.1	5.17.13 NMAC	
X Site Reclamation Plan	- based upon the appropriate requirements	ents of Subsection C = f	2.17.13 NMAC	
		and or Subsection G of	19.15.17.13 NMAC	

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Hand-off Bine Onlys (10.15.17.13.15.19.19.19.19.19.19.19.19.19.19.19.19.19.	
instructions: Please identify the facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than to are required.	vo facilitias
Disposal Facility Name: Disposal Facility Parmit #	
Disposal Facility Name: Disposal Facility Darnie #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for futur	re service and operations?
Required for impacted areas which will not be used for fature explices on the aveil	
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19-15-17-13 NA	110
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	MAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
17	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria convires a demonstration of convolution scient of the siting of the siting criteria converse of the siting of the siting of the siting of the site o	
certain string criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to	below. Requests regarding changes to the Santa Fe Environment Providence of
in consuleration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19,15,17,10 NMAC for guidance.	an onder et inen onnenan bureau office
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No
Son Office of the State Engineer - (WATERS database search: USGS: Data obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search: USGS: Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.	
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- Topographic map: Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
Visual inspection (certification) of the proposed site: Aerial photo: satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes No
NM Office of the State Engineer - iWATERS database: Visual inspection (certification) of the proposed size	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978. Section 3-27-3, as amended.	Yes No
Written contirmation or verification from the municipality; Written approval obtained from the municipality Within 500 foot of a westload	
- US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (configuration) of the average in the	Yes No
Within the area overlying a subsurface mine.	
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	
- Engineering measures incorporated into the design: NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain. - FEMA map	Yes No
18 On-Site Closure Plan Checklist, (10.15.17.12.5)(44.0). I	
by a check mark in the box, that the documents are attached.	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 10	215 17 11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	CARACTER INTRAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards can	not be achieved)
Son Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	

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

Operator Application	C			
Ellerchy certify that the in	Certification:			
	formation submitted with this application i	s true, accurate and complete to the	best of my knowledge and belief.	
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician	
Signature:	Crotal Talo	Date:	12/22/2008	
e-mail address:	arystal tafoyare consceptillips con	Telephone:	505-326-9837	
20 (ACD Agenerate Dr				
OCD Approval:	ermit Application (including closure pl	an) Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative S	ignature:		Approval Date:	
Tätler				
		OCD Pern	it Number:	
21				
Closure Report (requir	ed within 60 days of closure complet	ton). Subantus K		
Instructions: Operators are	required to obtain an approved closure pl	lan prior to implementing any closu	re activities and submitting the closure report. The closure	
report is required to be sub unproved closure plan has	mitted to the division within 60 days of the	completion of the closure activities	Please do not complete this section of the form until an	
opprorta crosure pain mas	veen optained and the closure activities ha	we been completed.		
		Closure	Completion Date:	
22				
Closure Method:				
Waste Excavation a	nd Removal On-site Closure N	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
If different from ap	proved plan, please explain.			
23				
Closure Report Regarding	Waste Removal Closure For Closed-loo	p Systems That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only:	
Instructions: Please identij	fy the facility or facilities for where the liq	uids, drilling fluids and drill cuttin	gs were disposed. Use attachment if more than two facilities	
Disposal Facility Name:		Disposed Fastling		
Disposal Facility Name:		Disposal Facility		
Were the closed-loop sys	tem committees and associated	Disposal Facility I	ermit Number:	
	activities and associated activities ne	riomed on or in areas that will not	he must far fature the state of	
Yes (If yes, please d	emonstrate complilane to the items below)	rormed on or in areas that will not	be used for future service and opeartions?	
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Township: 27N	Range: 06W Sections:
NAD27 X:	Y: Zone: Search Radius:
County: Ba	asin: Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic @ A
POD / Surface Data Rep	oort Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 08/20/2008

		(qu	arter	s are	∋ 1=I	NW	2:	=NE	3=SW 4=SE)						
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POD N	iumber		Tws	Rng	Sec	g	đ	P	Zone	х	Y	Well	Water	Column	
SJ 03	001		27N	06W	07	2	2	1				141	41	100	
SJ 02	403		27N	06W	30	3	1	3				505	300	205	
SJ 00	213		27N	06W	32	1	4	4				1308	485	823	
SJ 00	062		27N	06W	32	3	3	3				452	301	151	
SJ 00	061		27N	06W	32	3	3	3				445	301	144	

Record Count: 5



SAN JUAN 28-6 UNIT 209M AERIAL MAP



Data Source Aerial flown bcally Sedgewick in 2005.

ConocoPhillips

1000FT

300FT

1:6,000

NAD_1983_SP_ NM West_FIPS_3003 8/08

Mines, Mills and Quarries Web Map

SAN JUAN 28-6 UNIT 209M

Unit Letter: I, Section: 15, Town: 027N, Range: 006W



MILES



Espanole

SOHAHOS.

SANTA FE

Page 1 of 1

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SAN JUAN 28-6 UNIT 209M

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-6 UNIT 209M', which is located at 36.57198 degrees North latitude and 107.44742 degrees West longitude. This location is located on the Santos Peak 7.5' USGS topographic quadrangle. This location is in section 15 of Township 27 North Range 6 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 Turley, located 22.3 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 43.6 miles to the west (National Atlas). The nearest highway is US Highway 64, located 8.0 miles to the north. The location is on BLM land and is 2,744 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 1965 meters or 6445 feet above sea level and receives 11.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 282 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 665 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 4,781 feet to the north. The nearest water body is 3,966 feet to the west. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 28,779 feet to the west. 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 991 feet to the southeast. The nearest wetland is a 1.5 acre Riverine located 1,318 feet to the west. The slope at this location is 0 degrees to the southwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION -- Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 19.1 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.



PROPERTIES TEST METHOD J30BE J36BE J45BE Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Averages Typical Roll Averages Averages Averages Averages Averages Appearance Black/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 126 lbs 140 lbs **ASTM D 5261** 151 lbs 168 lbs (oz/yd²) 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion **ASTM D 413** 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 88 lbf MD 1" Tensile Strength 110 lbf MD **ASTM D 7003** 90 lbf MD 113 lbf MD 110 lbf MD 138 lbf MD 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 /bf DD 1" Tensile Elongation @ 550 MD 750 MD **ASTM D 7003** 550 MD Break % (Film Break) 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD ASTM D 7003 20 MD Peak % (Scrim Break) 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 lbf MD 75 lbf MD ASTM D 5884 104 lbf MD 100 lbf MD 117 lbf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD

218 lbf MD

210 lbf DD

146 lbf MD

141 lbf DD

<0.5

64 lbf

180° F

-70° F

MD = Machine Direction DD = Diagonal Directions

Grab Tensile

Trapezoid Tear

* Dimensional Stability

Maximum Use Temperature

Minimum Use Temperature

Puncture Resistance

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

180 lbf MD

180 lbf DD

130 lbf MD

130 lbf DD

<1

65 lbf

180° F

-70° F

222 lbf MD

223 lbf DD

189 lbf MD

172 lbf DD

< 0.5

83 lbf

180° F

-70° F

220 lbf MD

220 lbf DD

160 lbf MD

160 lbf DD

<1

80 lbf

180° F

-70° F

257 lbf MD

258 lbf DD

193 lbf MD

191 lbf DD

< 0.5

99 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

180 lbf MD

180 lbf DD

120 lbf MD

120 lbf DD

<1

50 lbf

180° F

-70° F

ASTM D 7004

ASTM D 4533

ASTM D 1204

ASTM D 4833

**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 quarantee of satisfactory results from Assance upon contained information or recommendations and pso aims all laberty 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**

OURA SCOM

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

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, at its 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 INDÚSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

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

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

General Plan:

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

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

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

General Requirements:

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