District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, 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.

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	to the appropriate NMOCD District Office.
	Pit, Below-Grade Tank, or	RECEIVED By kcollins at 3:13 pm, Jul 06, 201
	Alternative Method Permit or Closure	e Plan Application
15369	Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed altern Modification to an existing permit/or registration Closure plan only submitted for an existing permitted	
or proposed alternative		· · · · · · · · · · · · · · · · · · ·
	bmit one application (Form C-144) per individual pit, belo	
	does not relieve the operator of liability should operations resu- perator of its responsibility to comply with any other applicable	
Operator: <u>Burlington Resources Oil & C</u>	Gas Company,LP OGRID # 14538	
Address: P.O. Box 4289, Farmington,	New Mexico 87499	
Facility or well name: SAN JUAN 28-6 U	<u>NIT 134</u>	
API Number: <u>30-039-20581</u> OCD Pe	rmit Number:	
AND	5 Township <u>27N</u> Range <u>6W</u> Count	y: Rio Arriba
Center of Proposed Design: Latitude 36	<u>.599093</u> °N Longitude <u>- 107.492888 °W</u>	NAD: 1927 ☐ 1983 ⊠
Surface Owner: ⊠ Federal □ State □ P	ivate Tribal Trust or Indian Allotment	
2. Dit: Subsection F, G or J of 19.15.17	'.11 NMAC	
Temporary: Drilling Workover		
☐ Permanent ☐ Emergency ☐ Cavitati	on P&A Multi-Well Fluid Management	Low Chloride Drilling Fluid 🔲 yes 🔲 no
☐ Lined ☐ Unlined Liner type: Thic	cness mil	r
☐ String-Reinforced		
Liner Seams: Welded Factory	Other Volume:	bbl Dimensions: Lx Wx D
3.		
Below-grade tank: Subsection I of I	9.15.17.11 NMAC	
Volume: Max 120 bbl	ype of fluid: Produced Water	
Tank Construction material: Meta		
☐ Secondary containment with leak dete	ction Visible sidewalls, liner, 6-inch lift	
☐ Visible sidewalls and liner ☐ Visib	e sidewalls only Other	
Liner type: Thickness	_mil	2
4. Alternative Method: Submittal of an exception request is require	ed. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.
5.		N ON
na	AAC (Applies to permanent pits, temporary pits, and below-	
Chain link, six feet in height, two stran institution or church)	ds of barbed wire at top (Required if located within 1000 fee	et of a permanent residence, school, hospital,
	wire evenly spaced between one and four feet	

Cul,

Alternate. Please specify 4' hog wire fence with a single strand of barbed wire on top

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8,	
<u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank:	
☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce	ntable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	pinote source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	
from the ordinary high-water mark).	Yes No
 Topographic map; Visual inspection (certification) of the proposed site 	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Oil Conservation Division

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
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). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number:	.15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
13. Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland.	
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	I

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	□ v□ v-
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
- PENIA map	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 cann 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 H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Crystal Walker Title: Staff Regulatory Technician	
Signature: Date: 9/21/10	
e-mail address: Crystal.Walker@conocophillip.com Telephone: 505-326-9837 .	
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 7/15/2	016
Title: Compliance Officer OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	the closure report. complete this
20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-log) If different from approved plan, please explain.	oop systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: 1927	

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Burlington Resources Oil & Gas Company, LP BGT Modification

Burlington is requesting to modify the below-grade tank permit for SAN JUAN 28-6 UNIT 134.

The below-grade tank was registered on 9/30/2004 as an existing below-grade tank with siting criteria provided. Burlington would like to modify the permit with latitude/longitude of the existing belowgrade tank as well as the Design, Maintenance & Operating and Closure Plan.

The groundwater at the site	was previously ranked for this site as
< 50'	
50′ - 100′	
X > 100'	

Topo and Aerial Maps are attached for verification.

TOPO Map - San Juan 28-6 Unit 134, Sec. 5, T27N, R6W ConocoPhillips San Juan 28-6 Unit 134 is the subject well. Hydrogeologic COP Cathodic iWater DSM Copyright: @ 2013 National Geographic Society, i-cubed San Juan 28-6 Unit 134

Aerial Map - San Juan 28-6 Unit 134, Sec. 5, T27N, R6W

- DSM
- iWater
- Hydrogeologic
- COP Cathodic



San Juan 28-6 Unit 134

ConocoPhillips



San Juan 28-6 Unit 134 is the subject well.

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, hereinafter known as 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:

- 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 19.15.17.11.C NMAC.
- 3. BR will construct all new fences around the BGT utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. BGTs will be fenced at all times regardless of location.
 - a. If the BGT is located within 1000 feet of an occupied permanent residence, school, hospital, institution or church, BR will construct all new fences utilizing 72" chain link security fence with two strands of barbed wire on top. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR BGT system will 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 BGT to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a BGT to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the BGT as shown on the design plan.
- 8. If BR needs to modify/retrofit the existing BGT it will meet the below specifications.
- 9. BR will construct and use a BGT that does not have double walls. The BGT's side walls will be open for visual inspection for leaks, the BGT's bottom is elevated a minimum of six inches above the underlying ground surface and the BGT is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 10. BR has equipped the BGT's 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 Operator 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.

- 11. 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.
- 12. The general specification for design and construction are attached.

3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID DRAIN FROM SEPARATORS AUTOMATED OPERATION. 1) VENT VALVE DRAIN LINE 2) DUMP LINE FROM SEPARATORS SWABLINE 3) AUTOMATIC SHUT DEF LSHH ACTIVATES AT 10* FROM TOP OF TANK VENT LINE DRAIN LINE 3" TRUCK LOADOUT CONNECTION SLUPE TO DRAIN. TRUCK GROUND CONNECTION TII RTU: LAHH EXPANDED METAL ETIVER TII RTU 50 DRAIN LINES > FROM TANKS HINGED MANWAY 3" TRUCK LUAD LINE LSHH П GRADE DRIGINAL CURRUGATED RETAINING WALL HEIGHT 56' 4 SLITTED. SA-36 "SUPER MIFFLER" 3/16" PLATE SA-36 1/4" PLATE DURASKRIM J45 IMPERMEABLE LINER FOR VISIBLE # D LEAK DETECTION PROPERLY CONSTRUCTED . FOUNDATION VOID OF ANY SHARP OBJECTS PRODUCED WATER PIT TANK ConocoPhillips OPEN TOP GRAVITY FLOW TANK INTERNALLY CHATED WITH 12-14 MILS AMERON AMERCUAT 385 San Juan Business Unit

MANUAL UFERALUM D PRODUCTION TANKS DRAINLINE

2) SWABLINE DRAIN LINE

PROMERTIES	ane ya MENDO	-J	08B	13	118		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Avelages	Typical Roll Averages	Min. Roll Äverages	Typical Roll Averages
Appealance		Biac	k/Black	BlackBlack		Black/Black	
artickness	ABIM D 5199	1 27 mil	ी अग्रे	1 32 mil	36 mil	llerok	45 mil
Wegine be Period (CWd)	ASTM D 5261	126 lbs (18,14)	1到 lbs (20.10)	151 lbs (21.74)	168 lbs (24.19)	1891bs (27.21)	210 lbs (30.24)
COUSTRICION		******	rusion lanimated	With tenciopsula	ited tri-chesion	al scrim rejuion	cement
Platination	ASTM D 413	18 lbs	20 ibs	19 lbs	24 lbs	ź5 ibs	31 lbs
1º intilestingth	ASTM D 7003	88 lbf MD 63 lbf DD	110 HMD 79 MDD	90 lbfMD 70 lbfDD	ALS DE MO	110 lbfMD 84 lbf DD	128 IS MO 105 ISF PD
TS A SINGLE DO QUICAT (CARE) Et pelle Ve Film Highie	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	920 MD	750 MD 750 DD	650 MD 550 DD	750 MD 750 DD
Paale Hongalon @ Paale // (Sintr Break)	ASTM D 7008	20 MD 20 DD	83 MD 83 MD	如四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四四	30 MD 3100	20 MD 20 DD	36 MD 36 DD
Forgle real Sharqia	AŞTM D 5884	75 MMD 75 MFDD	97 bf 100 90 lbf 800	alimo Tabiod	104161MD 92165DD	100 lbf MD 100 lbf DD	117 JH MD 118 JH DD
Gaplania	AŞTM D 7004		218 JEMO 210 MEDO	180 IMMD 180 IM 08F	222 lbf MD 223 lbf DD	220 IbFMD 220 IbFDB	258 M DD 258
Irangalia da	ASTM D4533	120 IBFMD 120 lbfDD	148 bfMD 141 bfDD	190 (bf Mi) 190 (bf Di)	189 INTMID 172 INT DID	OMHORI CONTOR	193 lbf MD 191 lbf DD
3 Jiniepsiopel Stability	ASTM II 1204	বা	41.5	বা	<0,5	4	<0.5
Puncing Resistance	ASTM D 4888	·奶甜	'64lbf	晓时	. 83 lif	BG lbf.	99 lbf
Maximum use Jemperature	· · ·	180°F	180°F	180° F	160°F	·180°F	180°F
Meninimase emeralis	1	-70°F	-70°F	-70°F	-70°F	-30°F	-70°F

MD = Machine Direction DD = Diegonal Directions



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

*Dimensional Stability Maximum Value

POURA-SKRIM J3088, J3688 & J4588 are a four layer reinforced laminate containing no adjesives. The outer layers consist of a high strength polyethylene film manutactured using virgin grade resins and stabilizers for LIV resistance in exposed applications. DLIRA-SKRIM . 1908र्स, 1368र द्व. 14588 are reinforced with a 1300 denier (milimum) if-directional scriid reinforcement.

NOTE: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE PINESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REPERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and discleins al liability for resulting loss or damage.

Sloux Falls, South Dakola

P.O. Box 5107 Sloux Falls, SD 5717-5707 (605) 336-0174 (605) 331-0333 FAX 200-635-4456

INDUSTRIES

DB/OB

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. These dates will be updated prior to December 31, 2008.

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

Should defects or premature loss of use within the scope of the above Limited Warranty occur. Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rate 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 Rayen 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. Rayen 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 Rayen geomembrane to be free from all water, dirt, studge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Rayen Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein tails 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 ofher 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 LAWAND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS .

LIMITED WARRANTY SHALL BE IN MINUEHAHA 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.

RAYEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAYEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF ENAL PAYMENT AND EXECUTION BY A DULLY AUTHORIZED OFFICER OF RAYEN INDUSTRIES INC.

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

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

General Plan:

- 1. BR will operator 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 the environmental. BR will perform an inspection on a monthly basis, install 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.
- BR shall operator and install the BGT to prevent the collection of surface water run-on. BR has built in shut-off devices that do not all ow a BGT to overflow. BR constructs berms and corrugated retained walls at least 6" above grade to keep surface water run-on from entering the BGT as shown on the design plan.
- 4. As per 19.15.17.12.D(3), BR will inspect the BGT for leakage and damage at least monthly. The operator will document the integrity of each tank at least annually and maintain a written record for 5 years. Inspections may 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. BR shall remove any visible or measurable layer of oil from the fluid surface of the BGT in an effort to prevent significant accumulation of oil overtime.
- 5. BR shall maintain adequate freeboard to prevent overtopping of the BGT.
- If a BGT develops a leak, then BR shall removal all liquid above the damage or leak within 48 hours of discovery, notify the appropriate division office pursuant to 19.15.29 NMAC and repair the damage or replace BGT as applicable.
- 7. If BR discovers a BGT designed in accordance with 19.15.17.11.I(5) has lost integrity the BGT will promptly be drained and removed from service and BR will follow the approved closure plan. If BR discovers a retrofitted BGT designed in accordance with 19.15.17.11.I(4)(a-c), does not demonstrate integrity or that the BGT develops any of the conditions identified in Paragraph (5) of Subsection A of 19.15.17.12 NMAC shall repair the damage or close the existing BGT pursuant to the closure requirements of 19.15.17.13 NMAC.
- 8. If BR equips or retrofits the existing BGT to comply with Paragraphs (1) through (4) of Subsection Lof 19.15.17.11 NMAC, BR shall visually inspect the area beneath the BGT during the retrofit and document any areas that are wet, discolored or showing other evidence of a release on form C-141. BR shall measure and report to the division the concentration of contaminants in the wet or discolored soil with respect to the standards set forth in Table I of 19.15.17.13 NMAC. If there is no wet or discolored soil or if the concentration of contaminants in the wet or discolored soil is less than the standard set forth in Table I of 19.15.17.13 NMAC, then BR will proceed with the closure requirements of 19.15.17.13 NMAC prior to initiating the retrofit or replacement.

Burlington Resources Oil & Gas Company San Juan Basin: New Mexico Assets Production BGT Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-Grade Tanks (BGT) on Burlington Resources Oil & Gas Company, LP locations in the San Juan Basin of New Mexico. This is BR's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by BR. For those closures which do not conform to this standard closure plan, a separate BGT specific closure plan will be developed and utilized.

Closure Conditions and Timing for BGT:

Within 60 days of cessation of operation BR will:

Remove all liquids and sludge and dispose in a division approved manner.

Within 72 Hrs or I week prior to closure BR will:

o Give notice to surface owners by certified mail. For public entities by email as specified on the variance page.

Give notice to Division District Office verbally and in writing/email.

Within 6 months of cessation of operation BR will:

o Remove BGT and dispose, recycle, reuse, or reclaim in a division approved

Remove unused onsite equipment associated with the BGT.

Within 60 days of closure BR will:

o Send the Division District Office a Closure Report per 19.15.17.13.F (1).

General Plan Requirements:

- 1. Prior to initiating any BGT closure, except in the case of an emergency, BR will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.
- 2. Notice of closure will be given to the Division District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:

a. Operators Name

b. Well Name and API Number

c. Location

- 3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of COP's approved Salt Water Disposal facilities or at a Division District Office approved facility.
- 4. Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the Division District Office approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), Industrial Ecosystems Inc. JFJ Land Farm (Permit #NM-01-0010B), and Basin Disposal (Permit#NM-01-005).
- 5. BR will obtain prior approval from the Division District Office to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Sieel materials will be recycled or reused as approved by the Division District Office. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC.

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- Disposal will be at a licensed disposal facility, presently san Juan County Landin operation by Waste Management under NMED Permit SWM-052426.
- 6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.
- 7. Following removal of the tank and any liner material, BR will test the soils beneath the BGT as follows:
 - At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

		WE 1-2-2-101	
	*	Table I	
Closure Criteria for Soils Ba	meath Below-G	rade Tanks, Drying Pads Associated wil	h Closed-Loop
Sv	stems and Pits	where Contents are Removed	2 × 744
Depth below bottom of pit to	Constituent	Wethod*	Limit
groundwater less than 10,000			
	Chloride	EPA300.0	600 mg/kg
≤50 feet	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
•	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA300.0	10,000 mg/kg
51 feei-100 feet	TPH	EPA SVV-846 Method 418,1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg_
,	3enzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA 300.0	20,000 mg/kg
100 feet - 1	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	RO+DRO	EPA SW-846 Method 8D15M	1,000 mg/kg
E	STEX.	EPA SW-846 Method 8021B or 8260B	50 mg/kg
<u>[</u>	enzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

^{*}Or other test methods approved by the division

(19.15.17.13 NMAC-Ro, 19.15.17.13 NMAG 3/28/2013)

^{*}Numerical limits or natural background level, whichever is greater

- 8. If the Division District Office and/or BK determine there is a release, on will comply with 19,15,17.13,C.8b.
- 9. Upon completion of the tank removal, pursuant to 19.15,17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste confaining earthen material compacted and covered with a minimum of one foot top soil, or background thickness of top soil, whichever is greater. The surface will then be re-confoured to match the native grade, prevent ponding of water, and prevent erosion of cover material.
- 10. For those portions of the former BGT area no longer required for production activities, BR will seed the disturbed area in the first favorable growing season following the closure of the BGT. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division District Office approved methods. BR will notify the Division District Office when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Established vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total plant cover is at least 70% of pre-disturbance levels (Excluding noxious weeds)
- Pursuant to 19.15.17.13.H.5d BR will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of tresh water, human health and the environment.
- 11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

Closure Reports

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division District Office Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and Division District Office)
- Backfilling & cover installation
- Confirmation Sampling Analytical Results
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation