<ul> <li><u>District I</u></li> <li>1625 N. French Dr., Hobbs, NM 88240</li> <li><u>District II</u></li> <li>1301 W. Grand Ave., Artesia, NM 88210</li> <li><u>District III</u></li> <li>1000 Rio Brazos Rd., Aztec, NM 87410</li> <li><u>District IV</u></li> <li>1220 S. St. Francis Dr., Santa Fe, NM 87505</li> </ul>	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	re Plan Application
Type of action:	<ul> <li>X Permit of a pit, closed-loop system, below-grade t</li> <li>Closure of a pit, closed-loop system, below-grade</li> <li>Modification to an existing permit</li> <li>Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method</li> </ul>	ank, or proposed alternative method tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Instructions: Please submit one of Please be advised that approval	application (Form C-144) per individual pit, closed-loo of this request does not relieve the operator of liability should operations r	op system, below-grade tank or alternative request result in pollution of surface water, ground water or the
environment. Nor does approval re	lieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: SAN JUAN	28-6 UNIT 204	
API Number: U/L or Qtr/Qtr: H Section Center of Proposed Design: Latitud Surface Owner: X Federal	3003920846         OCD Permit Number           on:         8         Township:         27N         Range:         1           le:         36.5909°N         Longitude:         1           State         Private         Tribal Trust or Indian	6W         County:         Rio Arriba           -107.48436°W         NAD:         X 1927           1983         n Allotment
Temporary:       Drilling       Wo         Permanent       Emergency       It         Lined       Unlined       L         String-Reinforced       Liner Seams:       Welded       F	rkover Cavitation P&A iner type: Thickness mil LLDPE factory Other Volume:	HDPE PVC Other
3       Closed-loop System:       Subsection:         Type of Operation:       P&A       P&A         Drying Pad       Above Groon       Above Groon         Lined       Unlined       Line         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 Factory Other	activities which require prior approval of a permit or
4       X       Below-grade tank:       Subsection         Volume:       120         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 HDPE PVC X Other</u>	omatic overflow shut-off
5 Alternative Method: Submittal of an exception request is re	equired. Exceptions must be submitted to the Santa Fe Enviro	onmental 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)							
Cham link, six feet in height, two strands of barbed wire at top ( <i>Regnired if hyperod middle topp r</i>							
Four foot height, four strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot for the strands of barbed wire eventy speed bottoon on and foot foot for the strands of barbed wire eventy speed bottoon on and foot foot foot foot foot foot foot foo	d, institution or church)						
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire							
Netting: Subsection E of 19.15.17.11 NMAC (Applies to perpendent uit: and a management of the sector of the sec							
<b>X</b> Screen <b>Netting</b> 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							
Signed in compliance with 19.15.3.103 NMAC							
9							
Administrative Approvals and Exceptions:							
Please check a bay if and a more of the filler in the second seco							
X Administrative approval(s): Registers must be submitted in the							
(Fencing/BGT Liner)	consideration of approval.						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10							
Siting Criteria (regarding permitting): 19.15.17.10 NMAC							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests recording chapter to contribution in the application.							
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Rureau 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 lose must							
Converting to the state of the							
<ul> <li>NM Office of the State Engineer - iWATERS database search, USCS, Data and the first of the State Engineer - iWATERS database search, USCS, Data and the state of the state of</li></ul>	Yes X No						
Within 300 feet of a continuously flowing watercourse or 200 feet of one other							
lake (measured from the ordinary high-water mark).	Yes X 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 visual to be a construction of the proposed visual to be c	NA						
Within 1000 feet from a permanent antidence and the initial photo; Satellite image							
(Applied to parameter nice)	Yes No						
- Visual inspection (certification) of the proposed site. Avoid photo: Set the	XNA						
Within 500 horizonal feet of a private, domestic fresh water wall or spales that teact the 5							
purposes, or within 1000 horizontal feet of any other fresh water well or spring that less than five households use for domestic or stock watering	Yes XNo						
NM Office of the State Envineer - iWATERS database search. Vis. 1							
Within incorporated municipal boundaries on within a defined and it is the state of the proposed site.							
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes X No						
- Written confirmation or verification from the municipality; Written approval obtained from the municipality							
US Fish and Wildlife Wetland Identification man: Tonormakia man Minetic	Yes XINO						
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							
Within a 100-year floodplain							
- FEMA map	Yes X No						

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<u>Temporary Pits, Emergency Pits and Below-grade</u> Instructions: Each of the following items must be attached a	Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Report (Below-grade Tanks) - ba	sed upon the requirements of Data work (1), (1), (1), (2), (3), (3), (3), (3), (3), (3), (3), (3
Hydrogeologic Data (Temporary and Emergency	(Pits) - based upon the sumirormum of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
X Siting Criteria Compliance Demonstrations - bas	ed upon the approximate requirements of Paragraph (2) of Subsection B of 19:45.17.9
X Design Plan - based upon the appropriate require	real upon the appropriate requirements of 19.15.17.10 NMAC
X Operating and Maintenance Plan - based to the	ments of 19.15.17.11 NMAC
X Closure Rion (Risses a model - R	e appropriate requirements of 19.15.17.12 NMAC
19.15.17.9 NMAC and 19.15.17.13 NMAC	18. if applicable) - based upon the appropriate requirements of Subsection C of
Previously Approved Design (attach copy of design)	AP1 or Permit
	<u>Checklist:</u> Subsection B of 19.15.17.9 NMAC the application. Please indicate, by a check mark in the box, that the documents are attached. e closure) - based upon-the requirements of Paragraph (3) of Subsection B of 19.15.17.9 for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC nents of 19.15.17.11 NMAC appropriate requirements of 19.15.17.12 NMAC 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
Previously Approved Design (attach agen of the inter	
Providents by Approved Design (attach copy of design)	API
Previously Approved Operating and Maintenance Plan	1 API
13 Democrat Dite D to A to at one and	
Instructions: Each of the fullowing item and the Subse	ection B of 19.15.17.9 NMAC
Hydroveologic Parent hand area d	the application. Please indicate, by a check mark in the box, that the documents are attached.
Siting Criteria Compliance Dem	ats of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Climatological Eactors Assessment	upon the appropriate requirements of 19.15.17.10 NMAC
Certified Envincering Design Plans based upon at	
Dike Protection and Structural Integrity Design: ha	sed upon the engrements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriat	e requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment	- hased upon the appropriate service and a state service and
Quality Control/Quality Assurance Construction an	d Installation Plan
Operating and Maintenance Plan - based upon the	ADDITION From Provide Automatic State Stat
Freeboard and Overtopping Prevention Plan - based	upon the appropriate requirements of 19 15 17 11 NIMAC
Nuisance or Hazardous Odors, including H2S, Prev	vention Plan
Emergency Response Plan	
Oil Field Waste Stream Characterization	
Monitoring and Inspection Plan	
Erosion Control Plan	
Closure Plan - based upon the appropriate requirement	ents of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
roposed Closure: 19.15.17.13 NMAC	
in actions. Fieldse complete the applicable boxes. Boxes 14 th	trough 18, in regards to the proposed closure plan.
Alternative	itation P&A Permanent Pit XBelow-grade Tank Closed-loop System
oposed Closure Method: X Waste Excavation and Remo	oval (Below-Grade Tank)
Waste Removal (Closed-too)	p systems only)
On-site Closure Method (onl	ly for temporary pits and closed-loop systems)
In-place Burial	On-site Trench
Alternative Closure Method	- on one mental
	Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
aste Excavation and Removal Closure Plan Checklist:	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
aste Excavation and Removal Closure Plan Checklist: ase indicate, by a check mark in the box, that the documents	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. are attached.
aste Excavation and Removal Closure Plan Checklist: ase indicate. by a check mark in the box. that the documents X Protocols and Procedures - based upon the appropriate	(19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. e requirements of 19.15.17.13 NMAC
aste Excavation and Removal Closure Plan Checklist: ase indicate, by a check mark in the box, that the documents X Protocols and Procedures - based upon the appropriate Confirmation Sampling Plan (if applicable) - based up	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. are attached. e requirements of 19.15.17.13 NMAC pon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
aste Excavation and Removal Closure Plan Checklist: ase indicate. by a check mark in the box, that the documents X Protocols and Procedures - based upon the appropriat X Confirmation Sampling Plan (if applicable) - based up Disposal Facility Name and Permit Number (for liquity Soil Pachelity Name and Permit Number (for liquity	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. are attached. e requirements of 19.15.17.13 NMAC pon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ds. drilling fluids and drill cuttings)
aste Excavation and Removal Closure Plan Checklist: ase indicate, by a check mark in the box, that the documents X Protocols and Procedures - based upon the appropriate X Confirmation Sampling Plan (if applicable) - based up X Disposal Facility Name and Permit Number (for fiquity X Soil Backfill and Cover Design Specifications - based	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. are attached. e requirements of 19.15.17.13 NMAC pon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ds. drilling fluids and drill cuttings) upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
aste Excavation and Removal Closure Plan Checklist: ase indicate, by a check mark in the box, that the documents X Protocols and Procedures - based upon the appropriat X Confirmation Sampling Plan (if applicable) - based up X Disposal Facility Name and Permit Number (for fiquin X Soil Backfill and Cover Design Specifications - based X Re-vegetation Plan - based upon the appropriate requine	(Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. are attached. e requirements of 19.15.17.13 NMAC pon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ds. drilling fluids and drill cuttings) upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC rements of Subsection I of 19.15.17.13 NMAC

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Pal Consettation Division

In <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground 2</u> Instructions: Please identify the facility or facilities for the disposal of liquids, drift are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMA) ing fluids and drill cuttings. Use attachment if more than to	i) vo facilities						
Disposal Facility Name:	Disposal Faultic Domin 4							
Disposal Facility Name:	Disposal Facility Permit #:							
Will any of the proposed closed-loop system operations and associated activ Yes (If yes, please provide the information No	ities occur on or in areas that will not be used for futur	e service and operations?						
Required for impacted areas which will not be used for future service and operation         Soil Backfill and Cover Design Specification - based upon the approp         Re-vegetation Plan - based upon the appropriate requirements of Sub         Site Reclamation Plan - based upon the appropriate requirements of S	ns: priate requirements of Subsection H of 19.15.17.13 NM section 1 of 19.15.17.13 NMAC Subsection G of 19.15.17.13 NMAC	1AC						
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NM Instructions: Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district offic for consideration of approval. Justifications.and/or demonstrations of equivalency are requi-	AC . Recommendations of acceptable source material are provided b ze or may be considered an exception which must be submitted to s ired. Please refer to 19.15.17.10 NMAC for guidance.	elaw. Requests regarding changes to he Santa Fe Environmental Bio cau office						
Ground water is less than 50 feet below the bottom of the buried waste.								
<ul> <li>NM Office of the State Engineer - iWATERS database search: USGS: Data of</li> </ul>	ptained from nearby wells							
Ground water is between 50 and 100 feet below the bottom of the buried was	te							
- NM Office of the State Engineer - iWATERS database search; USGS; Data ob	tained from nearby wells							
Ground water is more than 100 feet below the bottom of the buried waste								
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obj</li> </ul>	lained from nearby wells	Yes No						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signif (measured from the ordinary high-water mark).	ficant watercourse or lakehed, sinkhole, or playa lake	Yes No						
· Topographic map: Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site; Aerial photo; satellite imag	existence at the time of initial application.	Yes No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less th purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis - NM Office of the State Engineer - iWATERS database; Visual inspection (certifi	an five households use for domestic or stock watering tence at the time of the initial application. ication) of the proposed site	Yes No						
Within incorporated municipal boundaries or within a defined municipal fresh water v pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality. Written confirmation of verification from the municipality.	vell field covered under a municipal ordinance adopted	Yes No						
Within 500 feet of a wetland	aned from the municipality							
US Fish and Wildlife Wetland Identification map; Topographic map; Visual insp	ection (certification) of the proposed site							
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirantion or verification or map from the NM EMNRD-Mining and N</li> </ul>	fineral Division	Yes No						
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mi Topographic map</li> </ul>	ineral Resources: USGS; NM Geological Society;	Yes No						
Within a 100-year floodplain. - FEMA map		Yes No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closur	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 requirement	ts 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 dryin Protocols and Procedures - based upon the appropriate requirements of the	g pad) - based upon the appropriate requirements of 19	15:17.19 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate i	requirements of Subsection E of 10.15.17.13 NMA o							
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 already and the strength of the s								
<ul> <li>Soil Cover Design - based upon the appropriate requirements of Subsection</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection</li> </ul>	on H of 19.15.17.13 NMAC on I of 19.15.17.13 NMAC	ioi de achieved)						
	ection G of 19.15.17.13 NMAC							

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Operator Application Co	<u>ertification:</u>
Numeral Drivery	marion submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Crystal Tafoya Title: Regulatory Technician
Signature:	Cypital Taloya Date: 12/22/2008
e-mail address:	Telephone: 505-326-9837
20	
OCD Approval: Per	rmit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Sign	nature:
	Approval Date:
Title:	OCD Permit Number:
21	
Closure Report (required	d within 60 days of closure completion). Subscience K of the LE LE MARKED
Instructions: Operators are re	equired to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure
report is required to be submi conversed closure when here here	itted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an
opproven closure plan has be	en onainea ana me closure activities have been completed.
	Closure Completion Date:
22	
Closure Method:	
Waste Excavation and	d Removal On-site Closure Method Alternative Closure Method DWaste Removal (Cl. 1)
If different from appro	oved plan, please explain
23	
Closure Report Regarding V	Naste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Hault of Ring Only
Instructions: Please identify I	the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more then two facilities
vere utilized.	and the second
Disposal Facility Name:	Disposal Facility Permit Number
Disposal Facility Name:	Disposal Facility Darmit Number
Were the closed-loop system	m operations and associated activities performed on or in array that will put he would be for
Yes (If yes, please dem	nonstrate compliance to the item balow.
Parminal for immediate	
Site Reclamation (Pho	as which will not be used for future service and operations:
Soil Backfilling and Co	over Installation
Re-vegetation Applicat	tion Poter and Stading Technique
	tion wates and seeding reenvidue
Closure Report Attachr	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
Closure Report Attachn the box, that the document	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in is are attached.
Closure Report Attachn the box, that the document Proof of Closure Not	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in ice (surface owner and division)
Closure Report Attachn the box, that the documents Proof of Closure Notice Proof of Deed Notice Proof of Deed Notice	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the state owner and division) et (required for on-site closure)
Closure Report Attachn the box, that the documents Proof of Closure Noti Proof of Deed Notice Plot Plan (for on-site	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in is are attached. ice (surface owner and division) e (required for on-site closure) closures and temporary pits)
Closure Report Attachm the box, that the document. Proof of Closure Note Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tice (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable)
Closure Report Attachm the box, that the document. Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tis are attached. tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) pling Analytical Results (if applicable)
Closure Report Attachm the box. that the document. Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp Disposal Facility Nan	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number
Closure Report Attachn the box, that the document. Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp Disposal Facility Nan Soil Backfilling and C	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tis are attached. tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number
Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Sampli Waste Material Samp Disposal Facility Nam Soil Backfilling and C Re-vegetation Ambigu	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the sare attached. (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number Cover Installation ation Rates and Seeding Technique
Closure Report Attachn the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp Disposal Facility Nan Soil Backfilling and C Re-vegetation Applica Site Reclamation (December 2014)	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the sare attached. the (surface owner and division) e (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number Cover Installation ation Rates and Seeding Technique
Closure Report Attachn the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp Disposal Facility Nan Soil Backfilling and C Re-vegetation Applica Site Reclamation (Pho	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in its are attached. tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ing Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number Cover Installation ation Rates and Seeding Technique bto Documentation)
Closure Report Attachn the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site Confirmation Samplin Waste Material Samp Disposal Facility Nan Soil Backfilling and C Re-vegetation Applica Site Reclamation (Pho On-site Closure Locat	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in its are attached. tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ing Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number Cover Installation ation Rates and Seeding Technique bto Documentation) tion: Latitude: Longitude: NAD 1927 1983
	ment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tice (surface owner and division) e (required for on-site closure) closures and temporary pits) ing Analytical Results (if applicable) bling Analytical Results (if applicable) ne and Permit Number Cover Installation ation Rates and Seeding Technique oto Documentation) tion: Latitude: Longitude: NAD [ 1927 [ 1983
	ment Checklist:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in tise (surface owner and division)         title (surface owner and division)       (required for on-site closure)         closures and temporary pits)       (if applicable)         ing Analytical Results (if applicable)       (if applicable)         ne and Permit Number       Cover Installation         ation Rates and Seeding Technique       Longitude:
	ment Checklist:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the sare attached.         tice (surface owner and division)       (required for on-site closure)         closures and temporary pits)       (ng Analytical Results (if applicable)         bling Analytical Results (if applicable)       (if applicable)         olion and Permit Number       Cover Installation         closures and Seeding Technique       Longitude:       NAD       1927       1983         tion:       Latitude:       NAD       1927       1983
	ment Checklist:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in itee (surface owner and division)         itee (surface owner and division)       (required for on-site closure)         closures and temporary pits)       (ing Analytical Results (if applicable)         obing Analytical Results (if applicable)       (if applicable)         ne and Permit Number       Cover Installation         closures and seeding Technique       (oto Documentation)         tion:       Latitude:
	ment Checklist:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the star attached.         tis are attached.       ite (surface owner and division)         c (required for on-site closure)       closures and temporary pits)         c closures and temporary pits)       ing Analytical Results (if applicable)         ohing Analytical Results (if applicable)       ine and Permit Number         Cover Installation       ation Rates and Seeding Technique         oto Documentation)       tion:         tion:       Latitude:
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New	Mexico	Office	of the	State	Engineer

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Township: 27	N Range: 06W	Sections:		
NAD27 X:	Y:	Zone:	Search Radius:	
County: B	asin:	- Ni	umber: Suffix:	
Owner Name: (First)	(Last)		C Non-Domestic C Domest	ic 🖲 Al
POD / Surface Data Re	port Avg D	epth to Water Rep	ort Water Column Re	port

### WATER COLUMN REPORT 08/20/2008

	(quarter (quarter	s are	≥ 1=) ≥ bi(	NW	2: 881	=NE	3=SW 4=S	SE) at)		Depth	Depth	Water (	(in
POD Number	Tws	Rng	Sec	P	P	q	Zone	x	Y	Well	Water	Column	1
SJ 03001	27N	06W	07	2	2	1				141	41	100	
SJ 02403	27N	06W	30	3	1	3				505	300	205	
SJ 00213	27N	06W	32	1	4	4				1308	485	823	
SJ 00062	27N	06W	32	3	3	3				452	301	151	
SJ 00061	27N	06W	32	3	3	3				445	301	144	

Record Count: 5



### SAN JUAN 28-6 UNIT 204 AERIAL MAP



# Mines, Mills and Quarries Web Map

### **SAN JUAN 28-6 UNIT 204**

Unit Letter: H, Section: 08, Town: 027N, Range: 006W



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### **SAN JUAN 28-6 UNIT 204**

### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-6 UNIT 204', which is located at 36.5909 degrees North latitude and 107.48436 degrees West longitude. This location is located on the Santos Peak 7.5' USGS topographic quadrangle. This location is in section 8 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 19.8 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 41.3 miles to the west (National Atlas). The nearest highway is US Highway 64, located 7.3 miles to the north. The location is on BLM land and is 521 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 1974 meters or 6474 feet above sea level and receives 12 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 380 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 1,289 feet to the east and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 1,417 feet to the north. The nearest water body is 5,845 feet to the west. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 18,445 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 5,427 feet to the west. The nearest wetland is a 1.1 acre Freshwater Forested/Shrub Wetland located 1.674 feet to the northwest. The slope at this location is 2 degrees to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Orlie fine sandy loam, 1 to 8 percent slopes' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 18.7 miles to the northeast 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.

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- 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.

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### PROPERTIES TEST METHOD J30BE J36BE **J45B**B Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Typical Roll Averages 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 (oz/vd²) 168 lbs 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 1" Tensile Strength 88 lbf MD 110 Ibf 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 lbf DD 1" Tensile Elongation @ 550 MD 750 MD Break % (Film Break) **ASTM D 7003** 550 MD 750 MD 550 MD 550 DD 750 MD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD Peak % (Scrim Break) ASTM D 7003 20 MD 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 **ASTM D 5884** 75 lbf MD 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 Grab Tensile 180 lbf MD 218 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD ASTM D 4533 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD \* Dimensional Stability ASTM D 1204 <1 < 0.5 <1 < 0.5 <1 < 0.5 Puncture Resistance **ASTM D 4833** 50 lbf 64 lbf 65 lbf 83 lbf 80 lbf 99 lbf Maximum Use Temperature 180° F 180° F 180° F 180° F 180° F 180° F Minimum Use Temperature -70° F -70° F

MD = Machine Direction

DD = Diagonal Directions

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

-70° F

-70° F

\*Dimensional Stability Maximum Value

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

THE LEAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of natisfactory results from resance upon contained information or recommendations and

# PLANT LOCATION Sioux Falls, South Dakota

# SALES OFFICE

-70° F

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



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# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will, 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 INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC. • •

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

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

### General Plan:

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

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

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

### General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, nonwaste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation

  - Re-vegetation application rates and seeding techniques Photo documentation of the site reclamation
  - Confirmation Sampling Results

  - Proof of closure notice