District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico and Natural Resources	Form C-14 July 21, 200
REGISTERE	D rvation Division h St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks. submit to the appropriate NMOCD District Office.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Sana re Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
P	Pit, Closed-Loop System, Below-Grad	le Tank, or
Proposed	Alternative Method Permit or Closur	re Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade t	tank, or proposed alternative method
, F	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
Ē	Modification to an existing permit	
Ē	Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	itted or non-permitted pit, closed-loop system,
Instructions: Please submit one app	lication (Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request
Please be advised that approval of the environment. Nor does approval relieve	is request does not relieve the operator of liability should operations is the operator of its responsibility to comply with any other applicable	result in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil &	k Gas Company, LP	OGRID#: 14538
Facility or well name: SAN HIAN 27	9 A 1	
A DI Number 200	0 A 1	
API Number: 300	14 Taurahire 27N Depart	
Center of Proposed Design: Latitude:	14 Townsmp: 27N Range:	107 646649W NAD: V1027 1083
Surface Owner: X Enderal	State Drivete Tribal Trust or India	n Allotment
<sup>2</sup> Pit: Subsection F or G of 19.15.17.1	1 NMAC	
Temporary: Drilling Workow	ver	
Permanent Emergency Cavi	itation P&A	
Lined Unlined Liner	type: Thickness mil LLDPE	HDPE PVC Other
String-Reinforced		
Liner Seams: Welded Factor	ory Other Volume:	_ bbl Dimensions L x W x D
3		
Type of Operation:	Drilling a new well Workover or Drilling (Applies to notice of intent)	activities which require prior approval of a permit or
Drying Pad Above Ground	Steel Tanks Haul-off Bins Other	
Lined Unlined Liner ty	/pe: Thicknessmil LLDPE H	HDPE PVD Other
Liner Seams: Welded Factor	ory Other	
4 V Polony grade tente Out-out- 1-4	E 10 15 17 11 NIMAC	
Volume 170 Kkl	Type of fluid: <b>Dreduced Water</b>	
Tank Construction material:	Matal	
Secondary containment with leak deter	stion X Visible sidewalls liner 6 inch lift and aut	omatic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	Share overlow share on
	mil HDPE PVC X Other I	Jnspecified
Liner Type: Thickness		
Liner Type: Thickness		
Liner Type: Thickness		
5	red. Exceptions must be submitted to the Santa Fe Enviro	onmental Bureau office for consideration of approval.

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Territage: Sublection Del 19:13:11 BMAC (hpplice to permanent pic unpresent piccum) below dealers and and the feet in the probability of the state of the probability of the pro	·					
Important data for an indication and analysis of the case of general control (control (cont) (control (control (control (control (cont	6 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)					
Normal       The expecting of a second processing processin	Chain link, six leet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church					
Image: Subjective End (9.15) 711 NMAC (apple) on preminent pix unit permanent spix upt ank.)         Setting:       Subjective End (9.15) 711 NMAC (apple) on preminent pix unit permanent spix upt ank.)         Member:       Other State (19.15) 711 NMAC (apple) on preminent pix unit permanent spix upt ank.)         Member:       Other State (19.15) 711 NMAC (apple) on preminent pix unit permanent spix upt ank.)         Member:       Other State (19.15) 711 NMAC (apple) on preminent pix unit permanent spix upt ank.)         Member:       State:         Member:       Other State (19.15) 711 NMAC (apple) on preminent pix unit permanent spix unit permanent pix unit permanent spix unit permanent spix unit permanent spix unit permanent spix unit permanent pix unit permanent p	X Alternate Place specify 4 has miss for its stands of barbed wire evenly spaced between one and four feet					
Perting:       Subsection E of 19.15.72.11 NMAC (Applies to permissive per up to tage tage tage)         Image:       Subsection E of 19.15.72.11 NMAC (Applies to permissive per tage)         Image:       Subsection E of 19.15.72.11 NMAC (Supplies to permissive per tage)         Image:       Subsection E of 19.15.72.11 NMAC (Supplies to permissive per tage)         Image:       Subsection E of 19.15.72.11 NMAC (Supplies to permissive permissiv	Environmee. These specify 4 nog wire fencing topped with two strands barbed wire.					
Server in the stands of an analysis of the produced spectral spectra spectra spectrad spectral spectral spectra spectral spectral spe	7 Netting: Subsection Flot 10.15.17.11.NNAACLALL II					
Monitary importance of a construction of proceeding for and the standard of foculation      Monitary importance of a construction of approximation of approximation of approximations of approximation of approximations of ap	X         Screen         Netting         Other					
8	Monthly inspections (If netting or screening is nor physically family)					
Signer Subsection C of 0151711 NMAC         Draw AP, C Starting, providing Operators same, site focation, and energency telephone numbers.         Symptot in compliance with 0153103 NMAC         Particulations addree demonstations of equivalency are required. Prease refer to 191517 NMAC for publics.         Providing the subsection of equivalency are required. Prease refer to 191517 NMAC for publics.         Providing the subsection of equivalency approaches. Requires administed to the appropriate division district of the Sama Fc Environmental Bureau office for consideration of approval.         Providing the subsection of the following is required. Final trave blanks:         Providing the subsection of the sama recompliance for each staffing criteria below in the application. Recommendations of acceptable providing division advace register administrative approaches. Single criteria acceptable register and receive administrative approaches. Single criteria acceptable for each staffing the advace advace register and requires and the application. Recommendations of acceptable considered are registed division of the temporary providing division of the staffing and the application area analy build trading for each staffing the advace of the application and environmental Bureau office for advace register and receive advace advace register advace advace re	e					
If T A 247. If thereing, providing Operator's name, site focation, and emergency telephone numbers.         Provide in compliance with 19.15.103 NAACC         9         9         Provide in compliance with 19.15.103 NAACC         9         9         Provide in compliance with 19.15.103 NAACC         9	Signs: Subsection C of 19.15.17.11 NMAC					
Numericanses and/or demonstrations of capacitance may be a specific of the state of the st	12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers					
9       Administrative Approach and Exception:         Particularies and/or demonstrations of equivalency are required. Please refer to 19.15.17 MMAC for guidance.         Preserve to be a bar of one or more of the following in required. Please refer to 19.15.17 MMAC for guidance.         Image: status of the status of the information in required. Please refer to 19.15.17 MMAC for guidance.         Image: status of the status of the information in the status of the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.         10         00         11         12         12       Administrative approxist. Requests must be submitted to the santa Fe Environmental Bureau office for consideration of approval.         10       12         12       Interpretation of approxist. Application must decomparize for real Status of the same require administrative approval from the application. Recommendations of acceptable many be considered an exception which must be submitted to the santa Fe Environmental Bureau office for consideration of appendic plants. Reguests required an exception which must be submitted to the same require administrative approval.         13       Administrative approach approach and save status associated with a clearcharge regue of 10.10 MAC for guidance. Stiffs of the original save approach appendic plants.         14       Creater is the soft for the originary high-water mark?         15       Administrative approach approach and the temporary pit, permanent pit, or below-grade tank.	X Signed in compliance with 19.15.3.103 NMAC					
Administrative Approvals and Ecopylations       projection of projections         Prear check a bas if one or more of the following is requested, if not leave blank:	9					
Press check alous for our one of the following in required. (if and loss late:         □	Administrative Approvals and Exceptions:					
▲ Antimistrative approvality: Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.         10         11         12         12         13         14         14         15         15         15         16         16         17         16         16         17         16         16         17         16         16         17         16         16         17         16         16         17         16         16         17         16         17         17         18         18         19         19         19         19         19         19         19         19         19         19         19         19         19 <t< th=""><th>Please check a box if one or more of the following is requested if not lower block</th><th></th></t<>	Please check a box if one or more of the following is requested if not lower block					
□Percing/BGT Liner)       □Percing/BGT Liner)         □ Supercent devices a disting consideration of approval.         0       0       0       0       0<	X Administrative approval(s): Requests must be submitted to the appropriate division district as the first f					
□ Propertiests: Requests must be submitted to the Santa FE Environmental Bureau office for consideration of approval.         0         10         11         12         12         12         13         14         14         15         15         15         15         15         15         16         16         17         17         17         18         17         16         17         17         18         18         19         10     <	(Fencing/BGT Liner)	consideration of approval.				
10         Siling Criteria (regarding permitting): 19.15.17.10 NMAC         Instructions: The applicant must demonstrate compliance for each stiling criteria below in the application. Recommendations of acceptable works outcome material are provide below. Requests regarding changes to certain sting criteria may require administrative approach from the approximation of the proposed stills considered and exception which must be submitted to be Sanda FE Environmental Bureau Offse for a consideration acception which must be submitted to be Sanda FE Environmental Bureau Offse for a consideration associated with a closed-loop system.         Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.       . Yes: No         Within 300 feet for a portional flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.					
Sinda Q. Thera Trearding permitting: 19:15 17: 10 NMAC         Instruction: The applican use demonstrac comparison for each sting criteria below in the application. Recommendations of acceptable for a general demonstration of the compared matrix differe for a considered on a coreption with matter submitted to be Sinta F is Environmendations of acceptable for a general difference on a general difference on a general difference. Stilling criteria dees not apply to drying pads or above grade-tanks associated with a close-floop system. <ul> <li>Cround water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</li> <li>NM Office of the State Engineer - iWATERS Jatabase search: USGS: Data obtained from nearby wells</li> <li>'No office of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (masureed from the ordinary high-water mark).</li> <li>'Topographic map, Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, energency, or cavitation pits and below-grade tanks)</li> <li>'Visual inspection (certification) of the proposed site; Aerial photo: Satellite image</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent) pits)</li> <li>'Visual inspection (certification) of the proposed site; Aerial photo: Satellite image</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent) pits)</li> <li>Visual inspection (certification) of the proposed</li></ul>						
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. <pre></pre>	Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa       \Pes X No         Index (measured from the ordinary high-water mark).       Topographic map: Visual inspection (certification) of the proposed site       \Pes X No         Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       \Pes X No         (Applied to temporary, emergency, or cavitation pits and below-grade tanks)       \Pes X No         • Visual inspection (certification) of the proposed site; Aerial photo: Satellite image       \Pes X No         Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, ar within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.       \Pes X No         • NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.       \Pes X No         • Within incorporated municipal boundaries or within a defined municipality: Written approval obtained from the municipality       \Pes X No         • Written confirmation or verification rom map: Topographic map: Visual inspection (certification) of the proposed site       \Pes X No         • Written confirmation or verification rom the NM EMNRD - Mining and Mineral Division       \Pes X No         Within a unstable area.       \Pes X No         • Engineering measures incorporated into the design; NM Bureau	Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes XNo				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial       Image: The state area         (Applies to temporary, emergency, or cavitation pits and helow-grade tanks)       Image: The state area         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: The state area         (Applies to temporary, emergency, or cavitation pits and helow-grade tanks)       Image: The state area         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: The state area         (Applied to permanent pits)       Image: The state area       Image: The state area         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: The state area       Image: The state area         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: The state area       Image: The state area         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: The state area       Image: The state area         • NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.       Image: The state area       Image: The state area         • Within 60 feet of a vetamed.       Image: The state area       Image: The state area       Image: The state area         • Within 60 feet of a vetamed.       Image: The state area       Ima	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes XNo				
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)       NA         - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Yes         Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       Yes         (Applied to permanent pits)       - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       No         Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.       Yes       No         • NM Office of the State Engineer - iWATERS database search; 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended       Yes       No         • Within soo feet of a wetland.       - US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site       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 the area overlying a subsurface mine.       - Yes       No	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes XNo				
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Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       Image: Ima	- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image					
(Applied to permanent pits)       Image         • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image         Within 500 horizonal feet of a private, domestic fresh water well or spring, that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.       Image: Im	Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	TYes TNo				
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Image: construction of the state for the state inclusion of the spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.       Image: construction of the state Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.         Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended       Image: Certification of the proposed site.         Within 500 feet of a wetland.       Written confirmation or verification from the municipality: Written approval obtained from the municipality       Image: Certification of the proposed site.         Within the area overlying a subsurface mine.       Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division       Image: Certification in the municipality is incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological       Image: Certification in the image: Cerification in the image: Certification in the ima	Within 500 horizonal feet of a private demoti for the proposed site; Aerial photo; Satellite image					
<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality: Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS: NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	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 purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes X No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance       Image: Section 3-27-3, as amended         - Written confirmation or verification from the municipality: Written approval obtained from the municipality       Image: Section 3-27-3, as amended         - Written confirmation or verification from the municipality: Written approval obtained from the municipality       Image: Section 3-27-3, as amended         - US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site       Image: Section 3-27-3, as amended         - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division       Image: Section 3-27-3, as amended         Within an unstable area.       - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological       Image: Yes       Image: No         Within a 100-year floodplain       - FEMA map       Yes       Image: No	- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.					
Within 500 feet of a wetland.       - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site       Image: Type       Yes       X       No         Within the area overlying a subsurface mine.       - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division       Image: Type       X       No         Within an unstable area.       - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological       Image: Type       X       No         Within a 100-year floodplain       - FEMA map       Yes       X       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 Written confirmation or verification from the municipal to the	Yes XNo				
<ul> <li>US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS: NM Geological</li> <li>Yes XNo</li> <li>Yes XNo</li> <li>Yes XNo</li> </ul>	Within 500 feet of a wetland.					
Within the area overlying a subsurface mine.       Image: Second state         Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division         Within an unstable area.         Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological         Yes         Within a 100-year floodplain         FEMA map	- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes XNo				
Within an unstable area.       Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological       Yes       XNo         Society; Topographic map       Within a 100-year floodplain       Yes       XNo         • FEMA map       Yes       XNo	Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes XNo				
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS: NM Geological</li> <li>Society; Topographic map</li> <li>Within a 100-year floodplain</li> <li>FEMA map</li> </ul>	Within an unstable area.					
- FEMA map	- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map					
	- FEMA map	Yes XNo				

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Instructions: Each of the fe	gency Pits and Below-grade Tanks blowing items must be attached to the an	Permit Application At	tachment Checklist: Subsection B of 19.15.17.9 NMAC	
X Hydrogeologic Re	port (Below-grade Tanks) - based upo	on the requirements of I	, by a check mark in the box, that the documents are attached.	
Hydrogeologic Da	ita (Temporary and Emergency Pits) -	based upon the require	ments of Paragraph (2) of Subsection B of 19,15,17,9 NMAC	
X Siting Criteria Co	mpliance Demonstrations - based upo	n the appropriate require	ments of 10.15.17.10 MAAG	
X Design Plan - base	ed upon the appropriate requirements	of 191517 UNMAC	Circuits of (7):15:17:10 NMAC	
X Operating and Ma	intenance Plan - based upon the appro-	Driate requirements of	10 15 17 12 NIMAC	
X Closure Plan (Plea	ise complete Boxes 14 through 18 if :	applicable) based up.		
19.15.17.9 NMAC	and 19.15.17.13 NMAC	approache) - based tipot	the appropriate requirements of Subsection C of	
Previously Approved	Design (attach copy of design)	API	or Permit	
	rmit Application Attachment Check Towing items must be attached to the app rogeologic Data (only for on-site closu npliance Demonstrations (only for on- d upon the appropriate requirements (on intenance Plan - based upon the approp se complete Boxes 14 through 18, if a 17.13 NMAC	klist: Subsection B of 19 dication. Please indicate, a rre) - based upon the req esite closure) - based upon of 19.15.17.11 NMAC priate requirements of 1 pplicable) - based upon	15.17.9 NMAC by a check mark in the box, that the documents are attached, attrements of Paragraph (3) of Subsection B of 19.15.17.9 on the appropriate requirements of 19.15.17.10 NMAC 9.15.17.12 NMAC the appropriate requirements of Subsection C of 19.15.17.9	
Previously Approved D	lesign (attach copy of design)	API		
Previously Approved C	perating and Maintenance Plan	API		
13         Permanent Pits Permit A         Instructions: Each of the foll         Hydrogeologic Republic         Siting Criteria Com         Climatological Factor         Certified Engineerin         Dike Protection and         Leak Detection Desi         Liner Specifications         Quality Control/Qua         Operating and Maint         Freeboard and Overt         Nuisance or Hazardor         Emergency Response         Oil Field Waste Streat         Monitoring and Inspe         Erosion Control Plan         Closure Plan - based	Application Checklist: Subsection B Nowing items must be attached to the app ort - based upon the requirements of P pliance Demonstrations - based upon ors Assessment up Design Plans - based upon the appro- Structural Integrity Design: based upon ign - based upon the appropriate requi- and Compatibility Assessment - based lity Assurance Construction and Insta- tenance Plan - based upon the appropri- opping Prevention Plan - based upon to bus Odors, including H2S, Prevention e Plan am Characterization ection Plan	B of 19.15.17.9 NMAC plication. Please indicate, Paragraph (I) of Subsection the appropriate requirements of on the appropriate requirements of 19.15.17.11 d upon the appropriate re- llation Plan riate requirements of 19. the appropriate requirements of 19. the	by a check mark in the box, that the documents are attached. on B of 19.15.17.9 NMAC ments of 19.15.17.10 NMAC 19.15.17.11 NMAC rements of 19.15.17.11 NMAC NMAC equirements of 19.15.17.11 NMAC 15.17.12 NMAC ments of 19.15.17.11 NMAC	
14		Subsection C of 19.15.1	7.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.1 Instructions: Please complete	7.13 NMAC	10 .		
Type: Drilling Wor	kover DEmersary Doves 14 through	18, in regards to the prop	osed closure plan.	
	Lineigency []Cavitation		ent Pit X Below-grade Tank Closed-loop System	
Proposed Closure Method:	Waste Excavation and Removal Waste Removal (Closed-loop syster On-site Closure Method (only for te	(Below-Grade Tar ns only) mporary pits and closed-	ik) loop systems)	
		On-site Trench		
	Alternative Closure Method (Except	tions must be submitted	to the Santa Fe Environmental Bureau for consideration)	
15         Waste Excavation and Rem         Please indicate, by a check main         X       Protocols and Procedure         X       Confirmation Sampling         X       Disposal Facility Name         X       Soil Backfill and Cover         X       Re-vegetation Plan - backstill         X       Site Reclamation Plan	<b>toval Closure Plan Checklist:</b> (19.15. <b>rk in the box, that the documents are atta</b> res - based upon the appropriate requir g Plan (if applicable) - based upon the e and Permit Number (for liquids, drift r Design Specifications - based upon the ased upon the appropriate requirement - based upon the appropriate requirement	17.13 NMAC) Instruction ached. rements of 19.15.17.13 appropriate requirement ling fluids and drill cutto the appropriate requirements of Subsection I of 19.	ts: Each of the following items must be attached to the closure plands of Subsection F of 19.15.17.13 NMAC ings) tents of Subsection H of 19.15.17.13 NMAC 15.17.13 NMAC	an.
	abed upon the appropriate requirem	ems or Subsection G of	19.15.17.13 NMAC	

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Waste Removal Closure For Closed-loop Systems That Utilize Ah Instructions: Please identify the facility or facilities for the disposal of	ove Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMA) of liquids, drilling fluids and drill cattines. The attachment of more clear	C)
ore required. Disposed Facility Name		wo faculties
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the provised closed law sectors and	Disposal Facility Permit #:	
Yes (If yes, please provide the information	ociated activities occur on or in areas that will not be used for futur No	re service and operations?
Required for implicted areas which will not be used for future service	and operations;	
Re-vegetation Plan - based upon the appropriate requirements	on the appropriate requirements of Subsection H of 19,15,17,13 NM	MAC
Site Reclamation Plan - based upon the appropriate require	irements of Subsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19	15.17.10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in t	the closure plan. Recommendations of acceptable source inducrial are provided in	halong Parameters to the
for consideration of approval. Justifications and/or demonstrations of equive	ate district office or may be considered an exception which must be submitted to denoy are remired. Please refer to 1945 17 10 MAACAN	the Santa Fe Environmental Buréau office
Ground water is less than 50 feet below the bottom of the buried	unate	
- NM Office of the State Engineer - iWATERS database search: 1	Waste, ISGS: Data obtained from purchase utility	Yes No
Ground water is between 50 1 100 s	socal one of the four hearby wears	N/A
- NM Office of the State Engineer - WATLING duck	e buried waste	Yes No
The office of the State Engineer - TwATERS database search; U	SGS: Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buri	ed waste.	Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; U</li> </ul>	SGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of a (measured from the ordinary high-water mark).	ny other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
<ul> <li>Topographic map: Visual inspection (certification) of the propose</li> </ul>	d site	
Within 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site; Aerial photo;	n, or church in existence at the time of initial application, satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spr purposes, or within 1000 horizontal fee of any other fresh water well or - NM Office of the State Engineer - iWATERS database: Visual insp Within incorporated municipal boundaries or within a defined municipal	ing that less than five households use for domestic or stock watering spring, in existence at the time of the initial application, section (certification) of the proposed site I fresh water well field covered under a municipal ordinance educated	Yes No
<ul> <li>pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written</li> </ul>	n approval obtained from the municipality	Yes No
Within 500 feet of a wetland	1-117	
<ul> <li>US Fish and Wildlife Wetland Identification map: Topographic ma</li> </ul>	ip; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
Within an unstable area.	winning and Mineral Division	
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Topographic map</li> </ul>	Geology & Mineral Resources: USGS; NM Geological Society:	Yes No
Within a 100-year floodplain.		
- FEMA map		Yes No
18		
<b>On-Site Closure Plan Checklist:</b> (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached.	ions: Each 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	requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) ba	ased upon the appropriate requirements of 10.15.17.11.5044.0	
Construction/Design Plan of Temporary Pit (for in place bur	Tal of a drving pad) - based upon the appropriate manifester of the	15 17 11 10 10 10
Protocols and Procedures - based upon the appropriate requi	rements of 19.15.17.13 NMAC	ADDITED NMAC
Confirmation Sampling Plan (if applicable) - based upon the	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drill	ling fluids and drill cuttings or in case on-site closure standards can	not be achieved)
Soil Cover Design - based upon the appropriate requirements	s of Subsection H of 19.15.17.13 NMAC	
Ke-vegetation Plan - based upon the appropriate requirement	s of Subsection I of 19.15.17.13 NMAC	

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

•

Operator Application Certification:	
The second s	
Name (Delete)	rate and complete to the best of my knowledge and belief.
Name (Frint): Crystal Tafoya	Title: Regulatory Technician
Signature: Signature:	Date: 12/22/2008
e-mail address: crystal (aloyar@conocophilips.com	Telephone: 505-326-9837
20	
OCD Approval: Permit Application (including closure plan)	
	Costile Plan (only) [OCD Conditions (see allachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
1	
<b>Closure Report (required within 60 days of closure completion):</b> Subsect Instructions: Operators are required to obtain an approved closure plan prior to i report is required to be submitted to the division within 60 days of the completion approved closure plan has been obtained and the closure activities have been com	setion K of 19:15.17.13 NMAC o implementing any closure activities and submitting the closure report. The closure n of the closure activities. Please do not complete this section of the form until an impleted. Closure Completion Date:
17	
Closure Method:	
Waste Excavation and Removal On-site Closure Method	Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.	
23	
Closure Report Regarding Waste Removal Closure For Closed-loop Systems T	That Utilize Above Ground Steel Tanks or Haul-off Bins Only
Instructions: Please identify the facility or facilities for where the liquids, drilling	ng fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Name	
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on	Disposal Facility Permit Number:
Yes (If yes, please demonstrate compliane to the items below)	No
Required for impacted areas which will not be used for future service and operation	rations
Site Reclamation (Photo Documentation)	101013.
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24	
Closure Report Attachment Checklist: Instructions: Each of the following the box that the documents are attached	ing items must be attached to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary nits)	
Confirmation Sampling Analytical Results (if analicable)	
Waste Material Sampling Analytical Booults (if analisticate)	
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:	
	NAD 1927 1983
¢	
Derator Closure Certification:	
hereby certify that the information and attachments submitted with this closure reputer compliance with all applicable down and attachments submitted with this closure reputer to a state of the state	port is ture, accurate and complete to the best of my knowledge and belief. I also certify that
a contractor and approximate crossine requirements and conditions specifie	tea in the approved closure plan.
ama (Dent)	
ame (Print):	
ame (Print):	Date:

New Mexico Office of the State Engineer

I UGU I UL I	Page	1	of	1
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		New Mexico Oj POD Rep	ffice of the Stat orts and Down	e Engi Iloads	neer				
	<b>Fownship</b> : 27N	Range: 08W	Sections:						
NA	D27 X:	Y:	Zone:		Searc	h Radiu	s:	-	
County:	Bas	in:		Num	ber:		Suffix:		
Owner Name:	(First)	(Last)		n c	Non-D	omestic	⊂ Dom	estic 6	All
POD / S	Surface Data Repo	Avg	Depth to Water	Report		Wat	er Column	Report	125
		Clear Form	WATERS Me	nu	Help				
POD Number SJ 02410	(quarters a (quarters a <b>Tws R</b> 27N 0	WATER are 1=NW 2=NE : are biggest to ag Sec q q q BW 36 1 3 2	COLUMN REPOR 3=SW 4=SE) smallest) Zone X	RT 08/	20/200 ¥	<b>Depth</b> <b>Well</b> 2200	Depth Water	Water Column	(in
Record Count:	1								





## Mines, Mills and Quarries Web Map

## **SAN JUAN 27-8 A 1**

Unit Letter: I, Section: 14, Town: 027N, Range: 008W









## SAN JUAN 27-8 A 1

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 27-8 a 1', which is located at 36.57077 degree, North latitude and 107.64664 degree, West longitude. This location is located on the Fresno Canyon 7.5' USGS topographic quadrangle. This location is in section 14 of Township 27 North Range 8 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Turley, located 14.5 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 33.0 miles to the west (National Atlas). The nearest highway is US Highway 64, located 10.7 miles to the north. The location is on BLM land and is 3,574 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 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 497 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 654 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 6,155 feet to the west. The nearest water body is 7.382 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 21,791 feet to the northeast. 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 12,211 feet to the east. The nearest wetland is a 4.6 acre Ravine located 2,673 feet to the southeast. The slope at this location is 0 degree, to the east 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 'Penistaja loam, gently sloping' 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 25.1 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 personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a 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.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



# DURA-SKRIM® ISOIISC PROPERTIES TEST METHOD J30BB J36BB

and a contract of the over the owner that a set the destruction of the destruction		Le 1 1 and and	and when a chandleres to I do a in al local			J45BE		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance		Black/Black		Blac	Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	15 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21,74)	168 lbs (24 19)	189 lbs (27.21)	210 lbs (20.24)	
Construction		**Ext	trusion laminated	with encapsula	ted tri-directio		(30.24)	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 ibf MD 258 ibf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 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	00.bf	
Maximum Use Temperature		180° F	180° F	180° F	180° F	1909 5	4001 5	
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F	

DD = Diagonal Directions

OURA-SERIM

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

\*Dimensional Stability Maximum Value

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

Note: IFAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REPERRED TO: no guarantee of cutstatotory results from revance upon contained information or recommendations and psoferms all uponty for resulting loss or damage.



## PLANT LOCATION

Sioux Falls, South Dakota

## SALES OFFICE

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

## RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

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

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

### General Plan:

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

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

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

#### General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; 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, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 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 below-grade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice