District 1		
	State of New Mexico	Form C-14
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	July 21, 200
District II 1301 W. Grand Ave., Artesia, NM 88210	Department Oil Conservation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
10	Pit, Closed-Loop System, Below-Grad	le Tank, or
Propos	sed Alternative Method Permit or Closur	re Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade	e tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permised below-grade tank, or proposed alternative method	
Instructions: Please submit one	application (Form C-144) per individual pit, closed-lo	
	of this request does not relieve the operator of liability should operations	
environment. Nor does approval re	lieve the operator of its responsibility to comply with any other applicable	e governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: UTE 4	the second s	
API Number:	3004511479 OCD Permit Number	er:
U/L or Qtr/Qtr: N Sect	ion: 10 Township: 32N Range:	14W County: San Juan
Center of Proposed Design: Latitud		-108.29773°W NAD: X 1927 1983
2 Pit: Subsection For G of 19 15	State Private X Tribal Trust or India	in Allotment
Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency I Lined Unlined L String-Reinforced Liner Seams: Welded F	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Factory Other Volume:	n Allotment HDPE PVC Other
Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency I Lined Unlined L String-Reinforced Liner Seams: Welded F	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Factory Other Volume: tion H of 19.15.17.11 NMAC Drilling a new wellWorkover or Drilling (Applies to	HDPE PVC Other
2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency G Lined Unlined L String-Reinforced Liner Seams: Welded F 3 Closed-loop System: Subsect Type of Operation: P&A [17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Factory Other Volume: .iner type: Thickness mil LLDPE Factory Other Volume:	HDPE PVC Other _ bbl Dimensions L x W x D
2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency Model Lined Unlined L String-Reinforced Liner Seams: Welded F 3 Closed-loop System: Subsect Type of Operation: P&A [Drying Pad Above Gro	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Factory Other Volume: .iner type: Thickness mil LLDPE Factory Other Volume: .iner type: Thickness mil LLDPE Factory Other Volume:	HDPE PVC Other bbl Dimensions Lx Wx D o activities which require prior approval of a permit or
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2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency Model Lined Unlined String-Reinforced Liner Seams: Welded F 3 Closed-loop System: Subsect Type of Operation: P&A Drying Pad Above Gro Lined	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Sactory Other Volume: .iner type: Thickness Normality Sactory Other Volume: .iner type: Thickness Normality Sactory Other Volume: .iner type: Thickness Markover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE I Sactory Other	HDPE PVC Other bbl Dimensions L x W x D o activities which require prior approval of a permit or
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2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency Model Lined Unlined L String-Reinforced Liner Seams: Welded F 3 Closed-loop System: Subsect Type of Operation: P&A [Drying Pad Above Groo Lined Lined Liner Seams: Welded F 4 X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak of	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Sactory Other Volume: .iner type: Thickness Null NMAC .onotice of intent) .und Steel Tanks Haul-off Bins Other .er type: Thickness mil LLDPE .iner type: Thickness mil CLLDPE	HDPE PVC Other
2 Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency Weight and the second and the secon	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Sactory Other Volume: Sactory Other Sactory Other	HDPE PVC Other
2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency Weight and the second and the seco	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Sactory Other Volume: Sactory Other Sactory Other	HDPE PVC Other

2		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, in	ustitution or ch	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		ur(n)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
A Anerhaic, Frease specify 4 nog wite reneing topped with two strands barbed wire.		and the second second
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		an Casaran San San San San San San San San San San
	Calendaria Charles	
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
		-
Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cor (Fencing/BGT Liner)	nsideration of a	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
	1	2 7
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 regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	TYes	No
(Applied to permanent pits)	XNA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	A	
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	2.1	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
 Written confirmation of verification from the municipality; written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division 	Yes	XNo
Within an unstable area.	TYes	XNo
 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	XNo

Oil Conservation Division

			Attachment Checklist: Subsection B of 19.15.17.9 NMAC tie, by a check mark in the box, that the documents are attached.	
X Hydrogeologic Re	ort (Below-grade Tanks) - based u	upon the requirements of	Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
H		2	rements of Paragraph (2) of Subsection B of 19.15.17.9	
H	pliance Demonstrations - based u			ning alle app
and the second s	upon the appropriate requirement	treet to be the second s	A T T N N N N N N N N N N N N N N N N N	-15 IF 19 15
the second se	the second s		f 19.15.17.12 NMÅC	and the second s
X Closure Plan (Plea	e complete Boxes 14 through 18,		on the appropriate requirements of Subsection C of	
-	and 19.15.17.13 NMAC		and the second	
Previously Approved I	Design (attach copy of design)	API	or Permit	
Instructions: Each of the fol		application. Please indicat	19.15.17.9 NMAC e, by a check mark in the box, that the documents are attached. requirements of Paragraph (3) of Subsection B of 19.15.17.9	
Siting Criteria Con	pliance Demonstrations (only for	on-site closure) - based	apon the appropriate requirements of 19.15.17.10 NMAC	
Design Plan - base	l upon the appropriate requiremen	ts of 19.15.17.11 NMAG		
Operating and Mai	ntenance Plan - based upon the ap	propriate requirements o	f 19.15.17.12 NMAC	
H	e complete Boxes 14 through 18,		on the appropriate requirements of Subsection C of 19.15.17.9	
Previously Approved I	esign (attach copy of design)	API		
	perating and Maintenance Plan	API	and the second	
		-		
13 Permanent Pits Permit	pplication Checklist: Subsecti	ion B of 19 15 17 9 NM	AC	
			ate, by a check mark in the box, that the documents are attached.	
-	ort - based upon the requirements			
-	pliance Demonstrations - based up			
Climatological Fact		pon ale appropriate requ		
	ng Design Plans - based upon the	appropriate requirements	of 19.15.17.11 NMAC	
Dike Protection and	Structural Integrity Design: based	d upon the appropriate re	equirements of 19.15.17.11 NMAC	
and the second se	ign - based upon the appropriate r			
Liner Specification	and Compatibility Assessment -	based upon the appropria	ate requirements of 19.15.17.11 NMAC	
Quality Control/Qu	ality Assurance Construction and I	Installation Plan		
Operating and Main	tenance Plan - based upon the app	propriate requirements of	19.15.17.12 NMAC	
Freeboard and Over	topping Prevention Plan - based u	pon the appropriate requ	irements of 19.15.17.11 NMAC	
Nuisance or Hazard	ous Odors, including H2S, Preven	ntion Plan		
Emergency Respon	se Plan			
Oil Field Waste Str	am Characterization			
Monitoring and Ins	ection Plan			
Erosion Control Pla	n			
Closure Plan - base	l upon the appropriate requiremen	ts of Subsection C of 19	15.17.9 NMAC and 19.15.17.13 NMAC	
14		and the second second		
Proposed Closure: 19.15	.17.13 NMAC e the applicable boxes, Boxes 14 three	augh 19 in page to to the	annual shares also	
		and the second se		
Alternative	rkover Emergency Cavita		manent Pit XBelow-grade Tank Closed-loop System	
Proposed Closure Method:	X Waste Excavation and Remov		e Tank)	
	Waste Removal (Closed-loop			
	On-site Closure Method (only		osed-loop systems)	
	In-place Burial	On-site Trench	and the second	
	Alternative Closure Method (I	Exceptions must be subm	itted to the Santa Fe Environmental Bureau for consideration)	
15	A REAL PROPERTY			
	moval Closure Plan Checklist: (uctions: Each of the following items must be attached to the closure plan.	
	ark in the box, that the documents a	tre attached.		
Please indicate, by a check n	ark in the box, that the documents a dures - based upon the appropriate		7.13 NMAC	
Please indicate, by a check n X Protocols and Proce	tures - based upon the appropriate	requirements of 19.15.1		
Please indicate, by a check n X Protocols and Proce X Confirmation Samp	lures - based upon the appropriate ing Plan (if applicable) - based up	e requirements of 19.15.1 on the appropriate requir	rements of Subsection F of 19.15.17.13 NMAC	
Please indicate, by a check n X Protocols and Proce X Confirmation Samp X Disposal Facility Na	tures - based upon the appropriate ing Plan (if applicable) - based up me and Permit Number (for liquid	e requirements of 19.15.1 on the appropriate require ds. drilling fluids and dril	rements of Subsection F of 19.15.17.13 NMAC I cuttings)	
Please indicate, by a check n X Protocols and Proce X Confirmation Samp X Disposal Facility Na X Soil Backfill and Co	tures - based upon the appropriate ing Plan (if applicable) - based up me and Permit Number (for liquid	e requirements of 19.15.1 on the appropriate requin ds. drilling fluids and dril upon the appropriate req	ements of Subsection F of 19.15.17.13 NMAC I cuttings) uirements of Subsection H of 19.15.17.13 NMAC	

Instructions: Please identify the facility or facilities for the dispose	Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) I of liquids, drilling fluids and drill cuttings. Use attachment if more than two) 9 facilities	
are required. Disposal Facility Name:	Disposed English Parmit #		
Disposal Facility Name: Disposal Facility Name:			
and the state of the second	associated activities occur on or in areas that will not be used for future	service and op	erations?
Required for impacted areas which will not be used for future serv Soil Backfill and Cover Design Specification - based Re-vegetation Plan - based upon the appropriate requi Site Reclamation Plan - based upon the appropriate reduction	upon the appropriate requirements of Subsection H of 19.15.17.13 NM. irements of Subsection I of 19.15.17.13 NMAC	AC	
ertain siting criteria may require administrative approval from the appro	19.15.17.10 NMAC in the closure plan. Recommendations of acceptable source material are provided be opriate district office or may be considered an exception which must be submitted to th uivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rlow, Requests reg he Santa Fe Enviro	arding changes to nmental Bureau office
Ground water is less than 50 feet below the bottom of the bur	ied waste.	Yes	No
- NM Office of the State Engineer - iWATERS database search	h: USGS: Data obtained from nearby wells	N/A	
round water is between 50 and 100 feet below the bottom o	f the buried waste	Yes	No
- NM Office of the State Engineer - iWATERS database search		N/A	
round water is more than 100 feet below the bottom of the b	puried waste.	TYes	No
- NM Office of the State Engineer - iWATERS database search			
ithin 300 feet of a continuously flowing watercourse, or 200 feet neasured from the ordinary high-water mark).	of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes	No
- Topographic map; Visual inspection (certification) of the prop	posed site		
thin 300 feet from a permanent residence, school, hospital, instit - Visual inspection (certification) of the proposed site; Aerial ph		Yes	No
		TYes	
ithin 500 horizontal feet of a private, domestic fresh water well or proses, or within 1000 horizontal fee of any other fresh water well - NM Office of the State Engineer - iWATERS database: Visual			
	icipal fresh water well field covered under a municipal ordinance adopted	Yes	No
/ithin 500 feet of a wetland	riteri approvar ootanieu rioni me municipanty	- Ver	No
 US Fish and Wildlife Wetland Identification map; Topographi 	ic map; Visual inspection (certification) of the proposed site	1100	
ithin the area overlying a subsurface mine.		Yes	No
- Written confiramtion or verification or map from the NM EMI	RD-Mining and Mineral Division	-	
	u of Geology & Mineral Resources; USGS; NM Geological Society;	Yes	No
Topographic map ithin a 100-year floodplain. - FEMA map		Yes	No
8 Dn-Site Closure Plan Checklist: (19.15.17.13 NMAC) Inst y a check mark in the box, that the documents are attached	tructions: Each of the following items must bee attached to the closure.	re plan. Please	indicate,
Siting Criteria Compliance Demonstrations - based upo	on the appropriate requirements of 19.15.17.10 NMAC		
Proof of Surface Owner Notice - based upon the approp	priate requirements of Subsection F of 19.15.17.13 NMAC		
Construction/Design Plan of Burial Trench (if applicab	le) based upon the appropriate requirements of 19.15.17.11 NMAC		
	e burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NM	AC
Protocols and Procedures - based upon the appropriate			
	n the appropriate requirements of Subsection F of 19.15.17.13 NMAC		
	riate requirements of Subsection F of 19.15.17.13 NMAC		
	, drilling fluids and drill cuttings or in case on-site closure standards can	nnot be achieve	d)
Soil Cover Design - based upon the appropriate require			
Re-vegetation Plan - based upon the appropriate require			
Site Reclamation Plan - based upon the appropriate requ	anements of Subsection G of 19.15.17.13 NMAC		

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	stal Tafoya , Title: Regulatory Technician
Signature:	tal Talana, Date: 12/22/2008
	© conocophillips.com Telephone: 505-326-9837
the second part of the second second second second	
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OCD Approval: Permit Application (i	ncluding closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Fitle:	OCD Permit Number:
21	
Closure Report (required within 60 days	of closure completion): Subsection K of 19.15.17.13 NMAC
	n approved closure plan prior to implementing any closure activities and submitting the closure report. The closure within 60 days of the completion of the closure activities. Please do not complete this section of the form until an
approved closure plan has been obtained and the	
	Closure Completion Date:
22 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 en	xplain.
I in anterent item appresses pana presses of	
-	
3	osure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
3 Iosure Report Regarding Waste Removal Clustructions: Please identify the facility or facili	osure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
3 Closure Report Regarding Waste Removal Cla astructions: Please identify the facility or facili tere utilized.	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
3 Closure Report Regarding Waste Removal Cle Instructions: Please identify the facility or facilitien the facility or facilitien the facility of facility of facility of facility Name:	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number:
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility Permit Number:
3 3 Closure Report Regarding Waste Removal Cle nstructions: Please identify the facility or facili bere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and a	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility Permit Number: ssociated activities performed on or in areas that will not be used for future service and opeartions?
3 3 3 Closure Report Regarding Waste Removal Class astructions: Please identify the facility or facility are utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and a Yes (If yes, please demonstrate compliant)	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility
Closure Report Regarding Waste Removal Cle Instructions: Please identify the facility or facility were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and a	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility
Closure Report Regarding Waste Removal Classification in the second structure of the second structure	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility
Closure Report Regarding Waste Removal Classification in the second structure of the second structure	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: Insociated activities performed on or in areas that will not be used for future service and opeartions? ne to the items below) No e used for future service and operations:
3 3 Cosure Report Regarding Waste Removal Cle instructions: Please identify the facility or facili fore utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and a Yes (If yes, please demonstrate complian Required for impacted areas which will not b Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and See	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: Insociated activities performed on or in areas that will not be used for future service and opeartions? ne to the items below) No e used for future service and operations:
	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: Insociated activities performed on or in areas that will not be used for future service and opeartions? ne to the items below) No e used for future service and operations:
3 3 Closure Report Regarding Waste Removal Clear Instructions: Please identify the facility or facility instructions: Please identify the facility or facility Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and a Yes (If yes, please demonstrate complian Required for impacted areas which will not b Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and See 4 Closure Report Attachment Checklist: the box, that the documents are attached.	ities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number: Disposal Facility
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Oil Conservation Division

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Form C-144

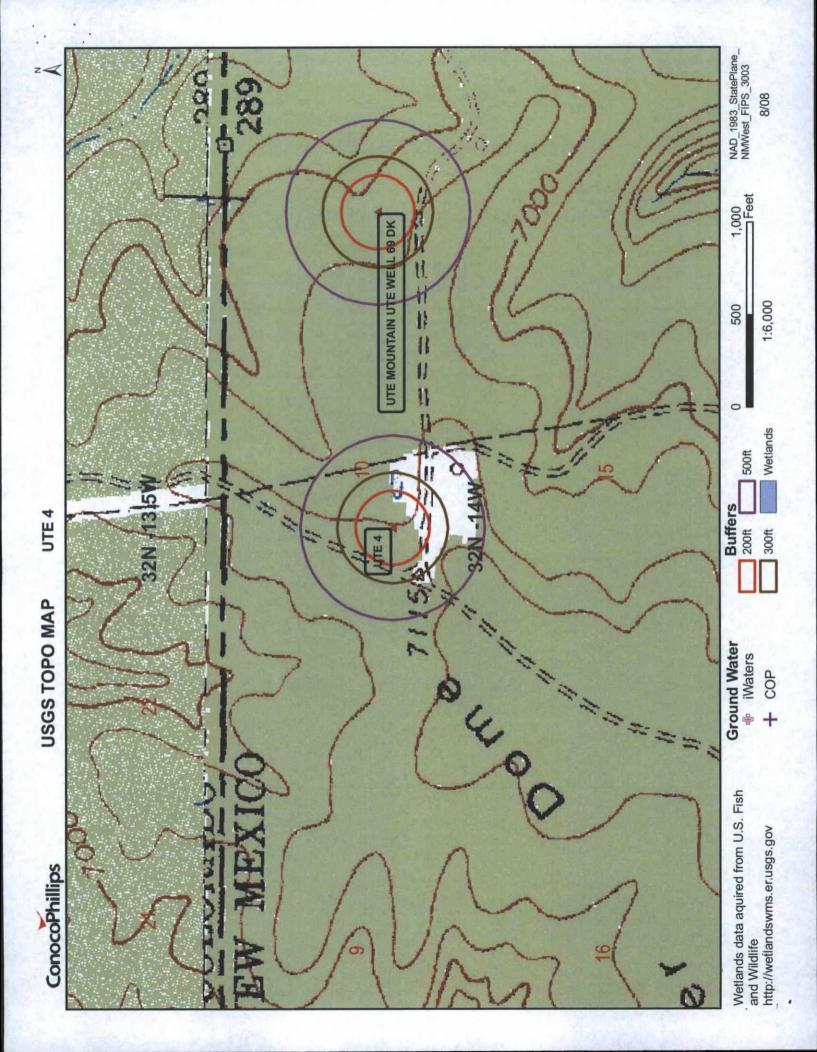
New Mexico Office of the State Engineer

1.1. 1.1.

Те	ownship: 32N	Range: 14W	Sections:				
NAD	27 X:	Y:	Zone:	Sea	rch Radius:		
County:	Bas	sin:		Number:	5	Suffix:	
Owner Name: ((First)	(Last))	○ Non-	Domestic	○ Domestic	All
POD / Su	rface Data Repo	ort Av	g Depth to Water	Report	Water	Column Repor	t
POD / Su	rface Data Repo	ort Av	rg Depth to Water			Column Repor	t
POD / Su	rface Data Repo		1.4			Column Repor	<u> </u>

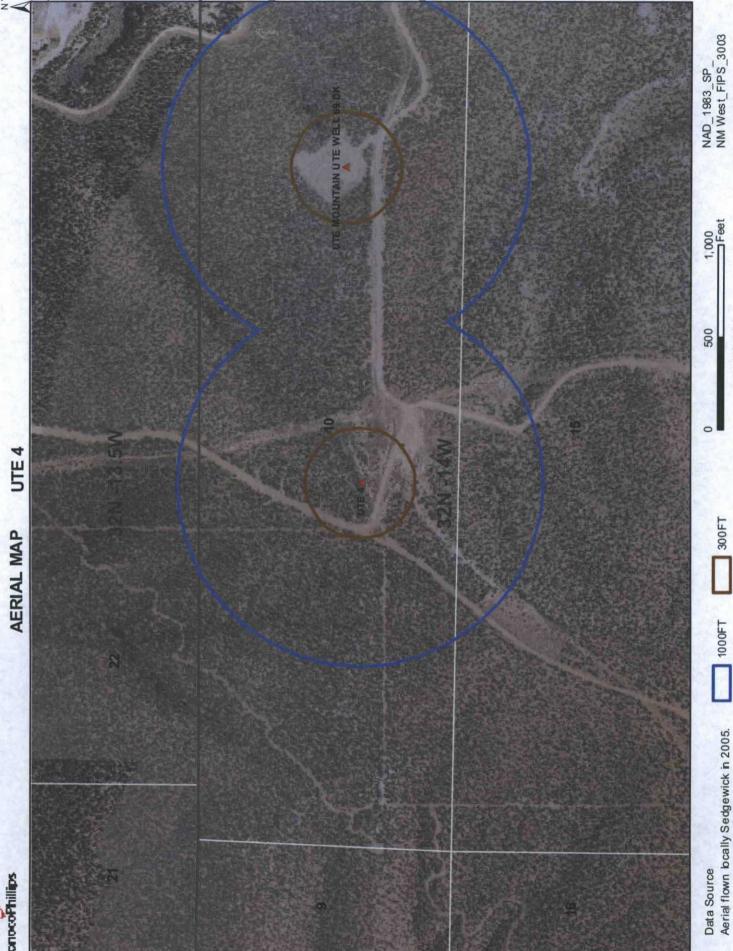
No Records found, try again

8/20/2008





UTE 4 AERIAL MAP

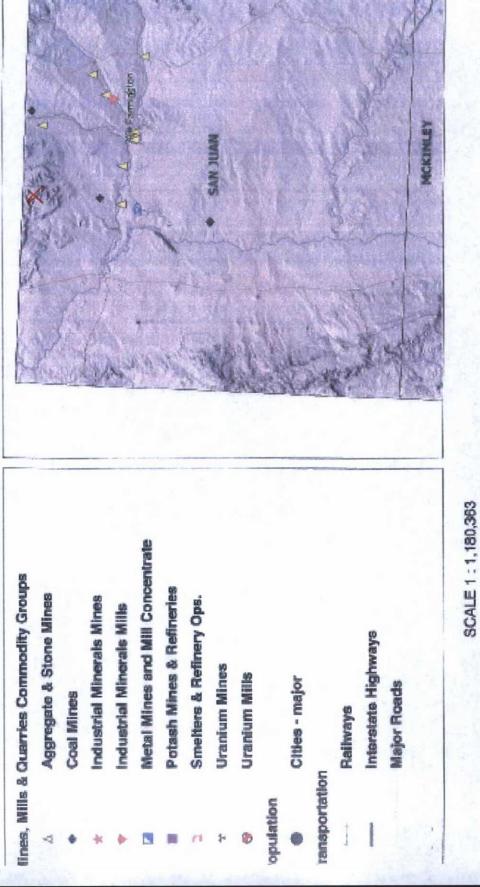


8/08

1:6,000

Mines, Mills and Quarries Web Map UTE 4

Unit Letter: N, Section: 10, Town: 032N, Range: 014W







UTE 4

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'UTE 4', which is located at 36.99715 degrees North latitude and 108.29773 degrees West longitude. This location is located on the Purgatory Canyon 7.5' USGS topographic quadrangle. This location is in section 0 of Township 32 North Range 14 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 La Plata, located 7.5 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 18.9 miles to the southeast (National Atlas). The nearest highway is State Highway 170, located 6.1 miles to the east. The location is on Tribal land and is 962 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Middle San Juan. Arizona, Colorado, New Mexico, Subbasin. This location is located 2158 meters or 7078 feet above sea level and receives 17 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 1,129 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 2,117 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 16.578 feet to the west. The nearest water body is 2 feet to the east. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 48,347 feet to the southwest. 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 28,610 feet to the southeast. There is no wetland data available for this area. The slope at this location is 4 degrees 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 CLIFF HOUSE SANDSTONE with Sandstone dominated formations of all age's substrate. The soil at this location is 'Vessilla-Rock outcrop complex, 5 to 25 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 4.9 miles to the southeast as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

No Hydrogeologic data for this formation

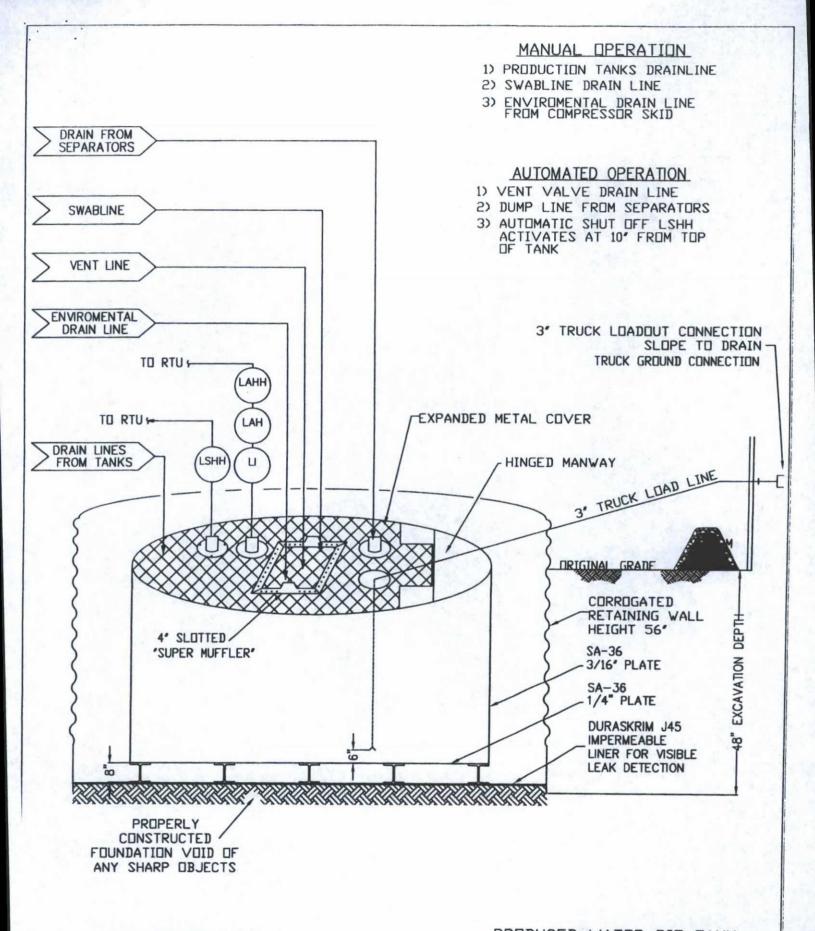
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- 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.
- 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.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK OPEN TOP GRAVITY FLOW TANK INTERNALLY COATED WITH 12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

PROPERTIES	TEST METHOD	J3	OBB	J36B B		J4588		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance		Blac	k/Black	Black	/Black	Black	/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinfor	I scrim reinforcement	
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 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 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	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-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.

J30, J36 a J4

*Dimensional Stability Maximum Value

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

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and discraims all liability for resulting loss or damage.

R A V E N INDUSTRIES

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

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19.15.17.9 Permit application

Signed C-144 (Page 5 of C-144)

Site Specific Hydrogeology

19.15.17.10 Siting requirements

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

19.15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

Requirements:

Registration Date: 2/12/16