	State of New Mexico	Form C-144
	Natural Resources	July 21, 2008
REGISTERED	-ment ion Division Francis Dr	tanks, submit to the appropriate NMOCD District Office.
15_ 200 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
Pit, Clos	sed-Loop System, Below-Grad	e Tank, or
Proposed Altern	native Method Permit or Closur	e Plan Application
Type of action: X Permit of	of a pit, closed-loop system, below-grade t	ank, or proposed alternative method
Closure	of a pit, closed-loop system, below-grade	tank, or proposed alternative method
Modific	cation to an existing permit	
Closure below-g	plan only submitted for an existing permi grade tank, or proposed alternative method	tted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (	Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request
Please be advised that approval of this request do	es not relieve the operator of liability should operations r	esult in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator	of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
Derator Burlington Descurren Oil & Con Con	mnony I P	OCDID#- 14529
deress BO Box 4290 Formation NMA 074	шрацу, LF	UURID#: 14338
auress. <u>FO Dux 4289</u> , Farmington, NM 874	,	
actility or well name: SAN JUAN 28-4 UNIT 5	,	
API Number: 3003907255	OCD Permit Numbe	r:
//L or Qtr/Qtr: H Section: 32	Township: 28N Range:	W County: Rio Arriba
enter of Proposed Design: Latitude:	36.619°N Longitude:	-107.26659°W NAD: X 1927 1983
urface Owner: X Federal State	Private Tribal Trust or Indian	Allotment
Temporary: Drilling Workover		
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Iner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a new provide the sectory         Drying Pad       Above Ground Steel Tank       Liner type:       The sectory       Or         Liner Seams:       Welded       Factory       Or       Or	P&A         'hickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off BinsOther         hickness milLLDPEH	HDPE       PVC       Other         bbl       Dimensions L       x W       x D         activities which require prior approval of a permit or         DPE       PVD       Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Iner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15         Type of Operation:       P&A       Drilling a not         Drying Pad       Above Ground Steel Tank         Liner Seams:       Welded       Factory       Ot	P&A         Thickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off Bins Other         nickness mil LLDPE Haul-off Bins	HDPE PVC Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a new prince         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner Seams:       Welded       Factory       Ot         X       Below-grade tank:       Subsection I of 19.15.17.11	P&A         Thickness mil       LLDPE         Other Volume:	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or    DPE PVD Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Iner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a not subsection         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner Seams:       Welded       Factory       Ot         X       Below-grade tank:       Subsection I of 19.15.17.11       Yype	P&A         Thickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off Bins Other         nickness mil LLDPE Her         11 NMAC         e of fluid: Produced Water	HDPE PVC Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a not steel Tank         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner Seams:       Welded       Factory       Ot         X       Below-grade tank:       Subsection I of 19.15.17.1       Volume:       120       bbl       Type         Tank Construction material:	P&A         'hickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off Bins Other         nickness mil LLDPE         hickness         mil         11 NMAC         eof fluid: Produced Water	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or    DPE PVD Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       1         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       19.15       19.15         Type of Operation:       P&A       Drilling a not steel Tank         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner Seams:         Welded       Factory       Ot       Ot         X       Below-grade tank:       Subsection I of 19.15.17.11         Volume:       120       bbl       Type         Tank Construction material:       Secondary containment with leak detection       Secondary containment with leak detection	P&A         Thickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off BinsOther         nickness milLLDPEH         ther         11 NMAC         c of fluid: Produced Water         Metal         X Visible sidewalls, liner, 6-inch lift and autoput	HDPE PVC Other   bbl Dimensions L x W   activities which require prior approval of a permit or   DPE PVD   Other
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a not subsection         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner type:       The Liner type:         X       Below-grade tank:       Subsection I of 19.15.17.1       Volume:       120       bbl       Type         Tank Construction material:       Secondary containment with leak detection       Visible sidewalls and liner       Visible       Visible	P&A         Thickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off BinsOther         bickness milLLDPEH         hickness milLLDPEH         hickness milLLDPEH         hickness milLLDPEH         hickness milLLDPEH         hickness mil         LLDPE         Haul-off Bins         of fluid:	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or    DPE PVD Other   matic overflow shut-off
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a new strength         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner type:       The Liner type:         X       Below-grade tank:       Subsection I of 19.15.17.1       Volume:       120       bbl       Type         Tank Construction material:	P&A   Thicknessmil   LLDPE   OtherVolume:   OtherVolume:   5.17.11 NMAC   ew well   Workover or Drilling (Applies to notice of intent)   s   Haul-off Bins   Other   nicknessnil   LLDPE   Haul-off Bins   Other	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or    DPE PVD Other   matic overflow shut-off
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       0         Closed-loop System:       Subsection H of 19.15       Type of Operation:       P&A       Drilling a not steel Tank         Drying Pad       Above Ground Steel Tank       Liner type:       The Liner type:       The Liner type:         X       Below-grade tank:       Subsection I of 19.15.17.1       Volume:       120       bbl       Type         Tank Construction material:       Secondary containment with leak detection       Visible sidewalls and liner       Visible       Visible         Alternative Method:       Method:       Method:       Method:       Method:	P&A   Thickness mil LLDPE   Other Volume:   5.17.11 NMAC   ew well Workover or Drilling (Applies to notice of intent)   s Haul-off Bins Other   bickness mil LLDPE Hether   11 NMAC   e of fluid: Produced Water   Metal   X Visible sidewalls, liner, 6-inch lift and autorsidewalls only Other   HDPE PVC Other	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or   DPE PVD Other   matic overflow shut-off   nspecified
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type:       T         String-Reinforced       Liner Seams:       Welded       Factory       Q         Closed-loop System:       Subsection H of 19.15       Type       Type         Orying Pad       Above Ground Steel Tank         Liner Seams:       Welded       Factory       Q         Drying Pad       Above Ground Steel Tank         Liner Seams:       Welded       Factory       Qt         X       Below-grade tank:       Subsection I of 19.15.17.1       Volume:       120       bbl       Type         Tank Construction material:	P&A         'hickness mil LLDPE         Other Volume:         5.17.11 NMAC         ew well Workover or Drilling (Applies to notice of intent)         s Haul-off Bins Other         bickness mil LLDPE         https://documentscience/produced Water         Metal         X Visible sidewalls, liner, 6-inch lift and autorsidewalls only         Other         HDPEPVC         Metal         x Visible sidewalls, liner, 6-inch lift and autorsidewalls only         Other         x Visible sidewalls, liner, 6-inch lift and autorsidewalls only         Other         HDPE         PVC         tions must be submitted to the Santa Fe Enviro	HDPE PVC Other   bbl Dimensions L x W x D   activities which require prior approval of a permit or   DPE PVD Other   matic overflow shut-off   inspecified   nmental Bureau office for consideration of approval.

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Feacing: 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 steards of backed wire extremely of the set	
Four foot height four strands of barbad mice and the second with a log (Required if located within 1000 feet of a permanent residence, school, hospita	d, institution or church)
X Alternate. Please specify 4' how wire forcing toronad with toronal to the total.	
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)           X         Screen         Netting         Other	
Monthly inspections (If netting or screening is not physically feasible)	
8	
Sigus: Subsection C of 19.15.17.11 NMAC	
X Signed in compliance with 19 15 3 103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Planar for a 10 to 17 and 10	
Please check a box if one or more of the following is requested if not locus block	
X Administrative approval(s): Regrests must be submitted to the companying it is the submitted to the	
(Fencing/BGT Liner)	consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application	
(Applied to permanent pits)	
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
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	
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 XNo
Within 500 feet of a wetland	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes XNo
<ul> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul>	Yes XNo
Within an unstable area.	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes XNo
Within a 100-year floodplain - FEMA map	Yes XNo

Temporary Pits Emer	conce Pite and Palan and The L	D. 1. 1. 1	
Instructions: Each of the J	ollowing items must be attached to the ap	Permit Application Attac pplication. Please indicate, by	hment Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic R	eport (Below-grade Tanks) - based up	oon the requirements of Para	graph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeológic D	ata (Temporary and Emergency Pits)	- based upon the requirement	its of Paragraph (2) of Subsection B of 19-15-17-9
X Siting Criteria Ce	ompliance Demonstrations - based upo	on the appropriate requireme	ents of 19.15.17.10 NMAC
X Design Plan - bas	ed upon the appropriate requirements	of 19.15.17.11 NMAC	
X Operating and Ma	aintenance Plan - based upon the appr	opriate requirements of 19.1	15.17.12 NMAC
X Closure Plan (Ple 19.15.17.9 NMA)	ase complete Boxes 14 through 18, if C and 19.15.17.13 NMAC	applicable) - based upon the	e appropriate requirements of Subsection C of
Previously Approved	Design (attach copy of design)	API	or Darmie
12			
Closed-loop Systems Performance Performanc	armit Application Attachment Check dowing items must be attached to the application of the appropriate requirements of the appropriate requirements of the approximation of the approxima	eklist: Subsection B of 19.15. plication. Please indicate, by a ure) - based upon the require i-site closure) - based upon t of 19.15.17.11 NMAC opriate requirements of 19.1.	17.9 NMAC wheek mark in the box, that the documents are attached. ements of Paragraph (3) of Subsection B of 19.15.17.9 the appropriate requirements of 19.15.17.10 NMAC 5.17.12 NMAC
NMAC and 19.15.	se complete Boxes 14 through 18, if a .17.13 NMAC	applicable) - based upon the	appropriate requirements of Subsection C of 19.15.17.9
Previously Approved I	Design (attach copy of design)	API	
Previously Approved (	Operating and Maintenance Plan	API	
13			
Permanent Pits Permit	Application Checklist: Subsection	B of 19.15.17.9 NMAC	
Instructions: Each of the fo	llowing items must be attached to the ap	pplication. Please indicate, by	a check mark in the box, that the documents are attached.
Siting Criteria C	ort - based upon the requirements of )	Paragraph (1) of Subsection	B of 19.15.17.9 NMAC
Climatological Fact	ipliance Demonstrations - based upon	the appropriate requiremen	ts of 19.15.17.10 NMAC
Certified Envinceri	ng Design Plang based over it		
Dike Protection and	Structural Integrity Devices have 1	ropriate requirements of 19.	15.17.11 NMAC
Leak Detection Des	sign - based upon the appropriate recu	on the appropriate requirem	ents of 19.15.17.11 NMAC
Liner Specifications	and Comnatibility Assessment back	arements of 19.15.17.11 NN	IAC
Quality Control/Qua	ality Assurance Construction and Inst	allation Blan	arements of 19.15.17.11 NMAC
Operating and Main	itenance Plan - based upon the appron	mation rian	17.12.50.0.0
Freeboard and Over	topping Prevention Plan - based upon	the appropriate requirement	17.12 NMAC
Nuisance or Hazard	ous Odors, including H2S, Prevention	Plan	S 01 19.15.17.11 NMAC
Emergency Respons	e Plan		
Oil Field Waste Stre	am Characterization		
Monitoring and Insp	ection Plan		
Erosion Control Plan	1		
Closure Plan - based	upon the appropriate requirements of	Subsection C of 19.15.17.9	NMAC and 19.15.17.13 NMAC
14			
roposed Closure: 19.15. Instructions: Please complete	17.13 NMAC	10 /	
	the start DEmander Dires 14 Inrough	18. in regards to the proposed	l closure plan.
Alternative		P&A Permanent	Pit X Below-grade Tank Closed-loop System
roposed crosure method:	X Waste Excavation and Removal	(Below-Grade Tank)	
	Waste Removal (Closed-loop syste	ems only)	
	On-site Closure Method (only for to	emporary pits and closed-loop	p systems)
		On-site Trench	
	Alternative Closure Method (Excep	ptions must be submitted to fl	e Santa Fe Environmental Bureau for consideration)
5 Vaste Excavation and Ren lease indicate, by a check ma X Protocols and Procedu	noval Closure Plan Checklist: (19.15 rk in the box, that the documents are att ares - based upon the appropriate requ	5.17.13 NMAC) Instructions: 1 tached.	Each of the following items must be attached to the closure plan.
X Confirmation Samplin	ig Plan (if applicable) - based upon the	e appropriate requirements of	f Subsection F of 10.15.17.12 Minter o
X Disposal Facility Nam	e and Permit Number (for liquids, dri	illing fluids and drill cutting	Subsection F of 19.15.17.13 NMAC
X Soil Backfill and Cove	r Design Specifications - based upon	the appropriate requirement	s of Subsection H of 19 15 17 12 NAMES
X Re-vegetation Plan - b	ased upon the appropriate requiremen	its of Subsection Lof 19 15 1	7 13 NMAC
X Site Reclamation Plan	- based upon the appropriate requirem	nents of Subsection G of 10	15 17 13 NMAC
		units of Subsection C of 19.	D. T. D. MALAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground	Steel Tanks or Hauf-off Bins Only: (1915-17-13 D NMA	()
dre required.	ing fluids and drill cuttings. Use attachment if more than t	wo facilities
Disposal Facility Name:	Disposal Facility During 4	
Disposal Facility Name		
Will any of the proposed closed-loop system operations and assuriated as	Disposal Facility Permit #:	
Yes (If yes, please provide the information No	thes occur on or in areas that will not be used for futu	re service and operations?
Required for impacted areas which will not be used for future service and operation	48:	
Soil Backfill and Cover Design Specification - based upon the appro	priate requirements of Subsection H of 19,15,17,13 N	MAC
Re-vegetation Plan - based upon the appropriate requirements of Sub	section I of 19.15.17.13 NMAC	
Site Recraination Plan - based upon the appropriate requirements of S	Subsection G of 19.15.17.13 NMAC	
17		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NM	AC	
certain sumg criteria may require administrative approval from the approvale district othe	Recommendations of acceptable source material are provided	below. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalency are requ	we of may be considered an exception which must be submitted to ired. Please refer to 19,15,17,10 NMAC for guidance.	the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		
- NM Office of the State Engineer - iWATERS database search: USGS: Data of	blained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the basis		
NM Office of the State Engineer - WATERS database search, USCS, Detect	te	Yes No
Constant and added search, USCS, Data on	tained from nearby wells	N/A
Shound water is more than 100 feet below the bottom of the buried waste.		Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS: Data ob</li> </ul>	tained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signif	ficant watercourse or lakebed, sinkhole, or playa like	
Topowraphic map: Visual intraction of still states of the		
Within 200 time from a second inspection (certification) of the proposed site		
<ul> <li>Visual inspection (certification) of the proposed site. A wind the second site of the second si</li></ul>		
and the proposed site; Aerial photo: satellite imag	e	
Within 500 horizontal feet of a private, domestic fresh water well or spring that has a		Yes No
purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis	an rive nouseholds use for domestic or stock watering tence at the time of the initial application	
<ul> <li>NM Office of the State Engineer - iWATERS database: Visual inspection (certific Within immersion of the State Engineer - iWATERS database).</li> </ul>	cation) of the proposed site	
pursuant to NMSA 1978, Section 3-27-3, as amended	vell field covered under a municipal ordinance adopted	
Written confirmation or verification from the municipality; Written approval obt	ained from the municipality	
Within 500 feet of a wetland		
<ul> <li>US Fish and Wildlife Wetland Identification map: Topographic map: Visual insp</li> </ul>	ection (certification) of the proposed site	
Within the area overlying a subsurface mine.		
<ul> <li>written contramtion or verification or map from the NM EMNRD-Mining and N Within on version block</li> </ul>	Aineral Division	
Engineering measures in the state of the sta		Yes No
Topographic map	neral Resources: USGS; NM Geological Society:	
Within a 100-year floodplain.		
- FEMA map		Yes No
18		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	of the following items must bee attached to the closur	e nlan Please indicate
by a check mark in the box, that the documents are attached.		e prun. I teuse inuicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirement	ts of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dryin	g pad) - based upon the appropriate requirements of 19	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 1	9.15.17.13 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, drilling fluids an	d drill cuttings or in case on-site closure standards can	not he achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection	on H of 19.15.17.13 NMAC	iner de actite reu/
Re-vegetation Plan - based upon the appropriate requirements of Subsection	on I of 19.15.17.13 NMAC	

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

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<b>Operator Application Ce</b>	rtification:		
I hereby certify that the inforr	nation submitted with this application is tru-	e, accurate and complete to the l	best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Constal Talour	Date:	17/22/2008
e-mail address:	arvstat tafoya@conocophillros.com	Telephone:	505-176-9837
20			
OCD Approval: Peri	nit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sign	ature:		
7819.48			Approval Date:
1 me:		OCD Permi	t Number:
21			
<b>Closure Report</b> (required	within 60 days of closure completion)	Subsection K of 10 15 17 13 SIM &C	
Instructions: Operators are re-	quired to obtain an approved closure plan p	prior to implementing any closur	e activities and submitting the closure report. The closure
report is required to be submit approved closure plan has bee	ted to the division within 60 days of the con in obtained and the closure activities have b	pletion of the closure activities.	Please do not complete this section of the form until an
	n politica and me closine activities have b	cen completed.	
		Closure (	Completion Date:
22			
Closure Method:			
waste Excavation and	Removal On-site Closure Metho	od Alternative Closure M	lethod Waste Removal (Closed-loop systems only)
It different from appro-	ved plan, please explain.		
23			
Closure Report Regarding W	aste Removal Closure For Closed-loop Sy	stems That Utilize Above Grou	ind Steel Tanks or Haul-off Bins Only:
were utilized.	e facinity of facilities for where the liquids,	, drilling fluids and drill cutting	s were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility Pr	rmit Number
Disposal Facility Name:		Disposal Facility Pe	rmit Number:
Were the closed-loop system	a operations and associated activities perform	med on or in areas that will not 1	be used for future service and operations?
Yes (If yes, please demo	onstrate complilane to the items below)	No	
Required for impacted areas	s which will not be used for future service ar	nd operations:	
Site Reclamation (Photo	Documentation)		
Re-vertetation Applicati	on Price and Seeding Tests		
L_ Ke regetation Application	on Kales and Sceding Technique		
Closure Report Attachm	ant Charliste Instructioner Frederick		
the box, that the documents	ent Checkist: Instructions: Each of the	following items must be attach.	d to the closure report. Please indicate, by a check mark in
and the ancunctus	are attached.	Jours wing wents must be minuth	
Proof of Closure Notic	are attached. (surface owner and division)	Jonowing acris musi be witten	
Proof of Closure Notice Proof of Deed Notice	are attached. ce (surface owner and division) (required for on-site closure)	Journe acres must be much	
Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c	are attached. ce (surface owner and division) (required for on-site closure) losures and temporary pits)	Journey acres must be much	
Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin	are attached. ce (surface owner and division) (required for on-site closure) losures and temporary pits) g Analytical Results (if applicable)	Jonowing acres must be much	
Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin     Waste Material Sample	are attached. ce (surface owner and division) (required for on-site closure) losures and temporary pits) g Analytical Results (if applicable) ing Analytical Results (if applicable)	Jonowing acres must be much	
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New Mexico Office of the State Engineer

Page	1	of	1
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New Mexico C POD Re	Office of the State ports and Down	e Engineer loads				
Township: 28N Range: 04W	Sections:					
NAD27 X: Y:	Zone:	Sear	ch Radius	5:		
County: Basin:		Number:		Suffix:		1
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(quarters are 1=NW 2=NE	3=SW 4=SE)		Depth	Depth	Water	(in
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<b>SJ 02385</b> 28N 04W 26 1 1 1			160	85	75	

Record Count: 2

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Towns	ship: 27N Rang	rod Reports and L ge: 04W Sections		
NAD27	X: Y	Zone:	Search I	Radius:
County:	Basin:		▼ Number:	Suffix:
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		WATER COLUMN F	EPORT 08/20/2008	

	(quarter	s are	e big	gge	981	t to	<pre>smallest)</pre>			Depth	Depth	Water (in	Ł
POD Number	Tws	Rng	Sec	g	Ð	P	Zone	x	Y	Well	Water	Column	
SJ 00048	27N	04W	01							143			
SJ 01049	27N	04W	18	4	2	2				15			
SJ 01205	27N	04W	34	4	4	4				3054	750	2304	

Record Count: 3



ConocoPhillips

# AERIAL MAP SAN JUAN 28-4 UNIT 5



# Mines, Mills and Quarries Web Map

# SAN JUAN 28-4 UNIT 5

Unit Letter: H, Section: 32, Town: 028N, Range: 004W



# SAN JUAN 28-4 UNIT 5

### Site Specific Hydrogeology

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A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-4 UNIT 5', which is located at 36.619 degree, North latitude and 107.26659 degree, West longitude. This location is located on the Vigas Canyon 7.5' USGS topographic quadrangle. This location is in section 32 of Township 28 North Range 4 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Dulce, located 26.4 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 52.8 miles to the west (National Atlas). The nearest highway is US Highway 64, located 6.5 miles to the north. The location is on National Forest land and is 9,850 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 2240 meters or 7347 feet above sea level and receives 15.5 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 458 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 491 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 6,925 feet to the east. The nearest water body is named Deer Tank and is 805 feet to the west. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 4,490 feet to the west. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 202 feet to the southwest. The nearest wetland is an 85.7 acre Ravine located 6,916 feet to the east. The slope at this location is 4 degree, to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all age's substrate. There is no SSURGO soil data available for this location. The nearest underground mine is 15.2 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

### Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

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

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

## General Plan:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



# DURA-SKRIM® JACIEGI

TEST METHOD	J	308 <b>8</b>	fr and J	3688	The state of the	4586
	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages	Min. Roll	Typical Roll
	Bla	ck/Black	Blac	k/Black	Bla	k/Black
ASTM D 5199	27 mil	30 mil	32 mil	36 mil	10 11	
ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21 74)	168 lbs	189 lbs	45 mil 210 lbs
	**Ext		(21.74)	(24.19)	(27.21)	(30.24)
ASTM D 413	10 16-		with encapsul	ated tri-direction	onal scrim reinfo	rcement
	10 105	20 lbs	19 ibs	24 lbs	25 lbs	31 lbs
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
ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD	550 MD	750 MD
ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	750 DD 36 MD 36 DD
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
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
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
ASTM D 1204	<1	<0.5	<1	-0.5		
ASTM D 4833	50 lbf	64 lbf	CE II C	×0.5	<1	<0.5
	1008 5	04101	101 60	83 lbf	80 lbf	99 lbf
	180° F	180° F	180° F	180° F	180° F	180° F
	-70° F	-70° F	-70° F	-70° F	-70° F	-70° E
	TEST METHOD         ASTM D 5199         ASTM D 5261         ASTM D 5261         ASTM D 413         ASTM D 7003         ASTM D 7003         ASTM D 7003         ASTM D 7003         ASTM D 7004         ASTM D 4533         ASTM D 1204         ASTM D 4833	TEST METHOD       Min. Roll Averages         Min. Roll Averages       Bla         ASTM D 5199       27 mil         ASTM D 5261       126 lbs (18.14)         ASTM D 5261       126 lbs (18.14)         ASTM D 413       16 lbs         ASTM D 7003       88 lbf MD 63 lbf DD         ASTM D 7003       550 MD 550 DD         ASTM D 7003       20 MD 20 DD         ASTM D 7003       20 MD 20 DD         ASTM D 7003       180 lbf MD 180 lbf MD 120 lbf MD 120 lbf MD 120 lbf MD 120 lbf MD 120 lbf MD 120 lbf MD 180 lbf MD 180 lbf MD 180 lbf MD 180 lbf MD 120 lbf MD 180 lbf MD 120 lbf MD 120 lbf MD 180 lbf MD 180 lbf MD 120 lbf MD 120 lbf MD 180 lbf MD 120 lbf MD 120 lbf MD 180 lbf MD 120 lbf MD 120 lbf MD 120 lbf MD 180 lbf	TEST METHOD         JJOBET           Min. Roll Averages         Typical Roll Averages         Typical Roll Averages           ASTM D 5199         27 mil         30 mil           ASTM D 5199         27 mil         30 mil           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)           ASTM D 7003         88 lbf MD 63 lbf DD         110 lbf MD 79 lbf DD           ASTM D 7003         550 MD 550 DD         750 MD 750 DD           ASTM D 7003         550 MD 750 DD         750 MD 750 DD           ASTM D 7003         20 MD 33 DD         33 MD 33 DD           ASTM D 7003         20 MD 20 DD         33 MD 33 DD           ASTM D 7004         180 lbf MD 20 DD         218 lbf MD 210 lbf DD           ASTM D 4533         120 lbf MD 120 lbf DD         146 lbf MD 141 lbf DD           ASTM D 4533         50 lbf         64 lbf           ASTM D 4833         50 lbf         64 lbf           ASTM D 4833         50 lbf         64 lbf	TEST METHOD         J30BE Averages         Typical Roll Averages         Min. Roll Averages           Black/Black         Black/Black         Black/Black         Black/Black           ASTM D 5199         27 mil         30 mil         32 mil           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)         151 lbs (21.74)           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)         151 lbs (21.74)           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)         151 lbs (21.74)           ASTM D 5261         126 lbs (18.14)         140 lbs (20.16)         151 lbs (21.74)           ASTM D 5261         126 lbs         140 lbs (18.14)         151 lbs           ASTM D 5261         126 lbs         140 lbs (20.16)         151 lbs           ASTM D 7003         88 lbf MD 63 lbf DD         110 lbf MD 79 lbf DD         90 lbf MD 70 lbf DD           ASTM D 7003         20 MD 20 DD         33 MD 20 DD         20 MD 20 DD           ASTM D 7003         20 MD 75 lbf DD         97 lbf MD 75 lbf DD         75 lbf MD 75 lbf DD           ASTM D 5884         75 lbf MD 75 lbf DD         210 lbf MD 180 lbf DD         180 lbf MD 180 lbf DD           ASTM D 4533         120 lbf MD 120 lbf DD         146 lbf MD 130 lbf MD 130 lbf DD         130 lbf MD 130 lbf DD     <	TEST METHOD         J30BE/         J36BE/           Min. Roll         Typical Roll         Min. Roll         Typical Roll         Averages         Typical Roll           Averages         Black/Black         Black/Black         Black/Black         Black/Black           ASTM D 5199         27 mil         30 mil         32 mil         36 mil           ASTM D 5261         126 lbs         140 lbs         151 lbs         168 lbs           (18.14)         (20.16)         (21.74)         (24.19)           "Extrusion laminated with encapsulated tri-direction (24.19)           ASTM D 413         16 lbs         20 lbs         19 lbs         24 lbs           ASTM D 7003         88 lbf MD         110 lbf MD         90 lbf MD         113 lbf MD           ASTM D 7003         550 MD         750 MD         750 MD         750 MD           ASTM D 7003         20 MD         33 MD         20 MD         30 MD           ASTM D 7003         20 MD         33 MD         20 DD         30 MD           ASTM D 7003         20 MD         33 MD         20 DD         31 DD           ASTM D 7003         20 MD         33 MD         20 DD         32 lbf DD           ASTM D 5884         75 lbf MD	TEST METHOD         J30BE         J36BE         J36BE         J36BE         J           Min. Roll         Averages         Typical Roll         Min. Roll         Typical Roll         Min. Roll         Averages         Black/Black         Black         Averages         Avera

DD = Diagonal Directions

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: ISAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO: no quarantee of satisfactory results from reliance upon contained information or recommendations and percents all upper for resulting loss or damage.

# RAVEN 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** 

# 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 that the sale hereunder is for commercial or industrial use only.

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

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

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

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

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

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

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

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

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

# General Plan:

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

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

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

# General Requirements:

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

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, nonwaste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include
  - i. Operator's name

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- ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice