District I State of New Mexico	
	Form C-144
, 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources	July 21, 2008
District II         Department         For temporary pits, closed- tanks, submit to the appropri           1301 W. Grand Ave., Artesia, NM 88210         Oil Conservation Division         tanks, submit to the appropri	loop sytems, and below-grade ate NMOCD District Office.
District III 1220 South St. Francis Dr.	
Junu I C, Thi C 7505	eptions submit to the Santa Fe
District IV Environmental Bureau office 1200 S. St. Empriso Dr. Septe En. MM 87505 appropriate NMOCD District	• ••
1220 S. St. Francis Dr., Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan Applicatio	n
	_
Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternation	
Closure of a pit, closed-loop system, below-grade tank, or proposed alternat	ive memou
Modification to an existing permit	alarad loop system
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method	closed-loop system,
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade ta	nk or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, re	•
1       Operator: Burlington Resources Oil & Gas Company, LPOGRID#: 14538	
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: GRENIER B 45	
API Number: 3004529406 OCD Permit Number:	
U/L or Qtr/Qtr: C Section: 4 Township: 29N Range: 10W County: San J	luan
Center of Proposed Design: Latitude: 36.75824°N Longitude: -107.89239°W	NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment	
2	
Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A	
Lined Unlined Liner type: Thickness mil LLLDPE HDPE PVC Othe	er
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions L	x Wx D
3	
Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prive	or approval of a permit or
notice of intent)	
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other	
Liner Seams: Welded Factory Other	
4 X Below-grade tank: Subsection I of 19.15.17.11 NMAC	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other	
4       X       Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X       Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other         Liner Type:       Thickness       mil       HDPE       PVC       X       Other       Unspecified         5       5       5       5       5       5	

6 <b>Constraints</b> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tonks)		
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	stitution or ch	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		
X Alternate. Please specify 4' hog wire fencing topped with two strands harbed wire.		
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		
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		
	<u> </u>	<u>.</u>
9 Administrative Approvals and Exceptions:		ĺ
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 con-	sideration of a	pproval.
(Fencing/BGT Liner)		
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10 Siting Criteria (respective respective), 10 15 17 10 NMAC		
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		j
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 hottom 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		XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	XNo
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial		XNo
application. (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.	Yes	
(Applied to permanent pits)	XNA	_
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	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
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>	∏Yes	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		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.	Yes	X No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		-
Within a 100-year Noodplain	☐ Yes	XNo
- FEMA map		-

Oif Conservation Division

Temporary Pits, Eme	repency Pits and Below-grade Tanks Permit A	Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC b. Please indicate, by a check mark in the box, that the documents are attached.
—		equirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
		upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
	Compliance Demonstrations - based upon the ap	
=	ased upon the appropriate requirements of 19.15	
=	Aaintenance Plan - based upon the appropriate re	
		ble) - based upon the appropriate requirements of Subsection C of
	AC and 19.15.17.13 NMAC	
	d Design (attach copy of design) API	or Permit
12 Closed-loon Systems	Permit Application Attachment Checklist: S	Subsection B of 19.15.17.9 NMAC
Instructions: Each of the	following items must be attached to the application.	a. Please indicate, by a check mark in the box, that the documents are attached. ased upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
		osure) - based upon the appropriate requirements of 19.15.17.10 NMAC
	ased upon the appropriate requirements of 19.15	
	Aaintenance Plan - based upon the appropriate re	
		ble) - hased upon the appropriate requirements of Subsection C of 19.15.17.9
	15.17.13 NMAC	se, meet aport the appropriate requirements of Subsection C of 17.13.11.7
Previously Approve	d Design (attach copy of design) API	(
Previously Approve	d Operating and Maintenance Plan API	
13 Permanent Pits Perm	it Application Checklist: Subsection B of 19	9.15.17.9 NMAC
		on. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic	Report - based upon the requirements of Paragra	aph (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria (	Compliance Demonstrations - based upon the app	propriate requirements of 19.15.17.10 NMAC
Climatological	Factors Assessment	
Certified Engine	eering Design Plans - based upon the appropriate	e requirements of 19.15.17.11 NMAC
Dike Protection	and Structural Integrity Design: based upon the	e appropriate requirements of 19.15.17.11 NMAC
Leak Detection	Design - based upon the appropriate requirement	nts of 19.15.17.11 NMAC
		on the appropriate requirements of 19.15.17.11 NMAC
	Quality Assurance Construction and Installation	
	Aaintenance Plan - based upon the appropriate re	-
=	Overtopping Prevention Plan - based upon the ap	
Emergency Res	zardous Odors, including H2S, Prevention Plan	
	Stream Characterization	
Monitoring and		
	-	
		section C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14		
Proposed Closure: 1		
	plete the applicable boxes, Boxes 14 through 18, in	
		P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative Proposed Closure Metho		(Below-Grade Tank)
r roposcu crosure metri	Waste Removal (Closed-loop systems or	• • • • • • • • • • • • • • • • • • • •
	On-site Closure Method (only for tempo	•
		site Trench
		s must be submitted to the Santa Fe Environmental Bureau for consideration)
15 Words Expandion and	Permanal Cloques Blas Charletter (10.17.17.	12 MARACY Instance Cash and a fall of the state of the st
Waste Excavation and		13 NMAC) Instructions: Each of the following items must be attached to the closure performance of t
Waste Excavation and Please indicate, by a che	<b>1 Removal Closure Plan Checklist:</b> (19.15.17.1 ck mark in the box, that the documents are attached ocedures - based upon the appropriate requirement	ed.
Waste Excavation and Please indicate, by a cher X Protocols and Pr	ck mark in the box, that the documents are attached ocedures - based upon the appropriate requirement	ed. nents of 19.15.17.13 NMAC
Waste Excavation and Please indicate, by a cher           X         Protocols and Pr           X         Confirmation Sa	ck mark in the box, that the documents are attached ocedures - based upon the appropriate requirement mpling Plan (if applicable) - based upon the app	ed. nents of 19.15.17.13 NMAC propriate requirements of Subsection F of 19.15.17.13 NMAC
Waste Excavation and Please indicate, by a cher           X         Protocols and Pr           X         Confirmation Sa           X         Disposal Facility	ck mark in the box, that the documents are attached ocedures - based upon the appropriate requirement mpling Plan (if applicable) - based upon the app Name and Permit Number (for liquids, drilling	ed. nents of 19.15.17.13 NMAC propriate requirements of Subsection F of 19.15.17.13 NMAC
Waste Excavation and Please indicate, by a cher           X         Protocols and Pr           X         Confirmation Sa           X         Disposal Facility           X         Soil Backfill and	ck mark in the box, that the documents are attached ocedures - based upon the appropriate requirement mpling Plan (if applicable) - based upon the app Name and Permit Number (for liquids, drilling	ed. nents of 19.15.17.13 NMAC propriate requirements of Subsection F of 19.15.17.13 NMAC g fluids and drill cuttings) appropriate requirements of Subsection H of 19.15.17.13 NMAC

Off Conservation Division

16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two are required.	
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future Yes (If yes, please provide the information No	service and operations?
Required for impacted areas which will not be used for future service and operations:         Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided be certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to th for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No
NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	
Converting in both and 100 first below the both an of the buried ments	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
- We while of the state engineer - I wallers talabase scaler, 0505, Data obtained from hearby webs	
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
	Yes No
Within 500 horizontal 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 fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; 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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	Yes No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	
Within a 100-year floodplain. - FEMA map	Yes No
18 <u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closu by a check mark in the box, that the documents are attached.	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	-
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 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 and drill cuttings or in case on-site closure standards ca	nnot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 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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Oil Conservation Division

omplete to the best of my knowledge and belief.   le:   Regulatory Technician   te:   12/22/2008   phone:   505-326-9837   e Plan (only)   OCD Conditions (see attachment)   Approval Date:   QAA   Approval Date:   QAD Permit Number:   Particle and submitting the closure report. The closure osure activities and submitting the closure report. The closure osure activities. Please do not complete this section of the form until an   Closure Completion Date:   Particle Closure Method   Waste Removal (Closed-loop systems only)
le:       Regulatory Technician         te:       12/22/2008         phone:       505-326-9837         e Plan (only)       OCD Conditions (see attachment)         Approval Date:       QA         QD Permit Number:       VA         0-15.17.13 NMAC         nting any closure activities and submitting the closure report. The closure cosure activities. Please do not complete this section of the form until an         Closure Completion Date:
le:       Regulatory Technician         te:       12/22/2008         phone:       505-326-9837         e Plan (only)       OCD Conditions (see attachment)         Approval Date:       Call FEB 12         OPD Permit Number:       MA         0.15.17.13 NMAC       Permit Number:         0.15.17.13 NMAC       Permit number:         0.15.17.13 NMAC       Permit of the closure report. The closure cosure activities and submitting the closure report. The closure cosure activities. Please do not complete this section of the form until an         Closure Completion Date:
te: 12/22/2008 phone: 505-326-9837 e Plan (only) OCD Conditions (see attachment) Approval Date: 24 FEB 12 QCD Permit Number: MA 9.15.17.13 NMAC and submitting the closure report. The closure osure activities. Please do not complete this section of the form until an Closure Completion Date:
phone:       505-326-9837         e Plan (only)       OCD Conditions (see attachment)         Approval Date:       24         OCD Permit Number:       24         OCD Permi
Plan (only) OCD Conditions (see attachment)  Approval Date: 24 FEB 12  OCD Permit Number:
Approval Date: 24 FEB 12 OCD Permit Number:
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Approval Date: 24 FEB 12 OCD Permit Number:
0.15.17.13 NMAC         nting any closure activities and submitting the closure report. The closure cosure activities. Please do not complete this section of the form until an         Closure Completion Date:
0.15.17.13 NMAC         nting any closure activities and submitting the closure report. The closure osure activities. Please do not complete this section of the form until an         Closure Completion Date:
O.15.17.13 NMAC  Iting any closure activities and submitting the closure report. The closure cosure activities. Please do not complete this section of the form until an  Closure Completion Date:  Mattive Closure Method Waste Removal (Closed-loop systems only)
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nting any closure activities and submitting the closure report. The closure cosure activities. Please do not complete this section of the form until an         Closure Completion Date:
Closure Completion Date:
native Closure Method Waste Removal (Closed-loop systems only)
native Closure Method Waste Removal (Closed-loop systems only)
lize Above Ground Steel Tanks or Haul-off Bins Only:
lize Above Ground Steel Tanks or Haul-off Bins Only:
lize Above Ground Steel Tanks or Haul-off Bins Univ:
and drill cuttings were disposed. Use attachment if more than two facilities
and and callings were asposed. Use anachmens if more man two facilities
sposal Facility Permit Number:
sposal Facility Permit Number:
eas that will not be used for future service and opeartions?
s must be attached to the closure report. Please indicate, by a check mark in
itude: NAD 1927 1983
we accurate and complete to the best of up benefade and belief. I descent the
ure, accurate and complete to the best of my knowledge and belief. I also certify that he approved closure plan.
Title:
Data
Date:
lephone:
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New Mexico Office	ew Mexico Office of the State Engineer									Page 1 of 2			
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	Township:	29N	R	ange	: 10	W Se	ctions:						
NA	AD27 X:			Y:		2	Zone:		-	Search Ra	dius:		
County:	*	Bas	in:				•	Nu	ımbe	er:	Suffix	x:	
Owner Name:	(First)				a	ast)			O N	on-Dome	stic OD	omestic	• All
	,	-		1	(L								
POD /	Surface Dat	a Repo	ort			Avg Dep	oth to Wate	er Repo	ort		Water Colu	mn Repor	t
			С	lear	Form	Ni	ATERS M	lenu		lelp			
				W	ATER	COLUMN	REPORT	08/2	0/2	800			
	(quarters	s are	1=1	W 2	=NE	3=SW 4=	SE)						
	(quarters	s are	big	ges	t to		st)			Depth	Depth		(in feet)
POD Number	Tws	<b>Rng</b> 10W 2			a d	Zone	x		Y	Well	Water	Column	
RG 36732 DCL SJ 00785 S	29N 29N	10W (		2 2 4	2					500 20	450	50	
SJ 00680	29N	10W 1		2 2						40	10	30	
SJ 00785 NEW	29N	10W 1		4						60	20	40	
SJ 00785 S-2	29N	10W 1		4						60	20	40	
SJ 03023	29N	10W 1	18	1 3	1					90	65	25	
SJ 03502	29N	10W 1		1 3						150			
SJ 03081		10W 1		3 1						20			
SJ 02078	29N	10W 1		3 1						40	9	31	
SJ 00303	29N	10W 1		3 3						20	5	15	
SJ 02860 SJ 02900	29N 29N	10W 1 10W 2		4 4 3 1						21 70	2	19	
SJ 01140	29N	10W 2		3 2						25	6	19	
SJ 01990	29N	10W 2		4 1						40	12	28	
SJ 02548	29N	10W 2		4 4						12	2	10	
SJ 02547	29N	10W 2	20	4 4						12	2	10	
SJ 03535	29N	10W 2		3 2						15			
SJ 03455	29N	10W 2		3 3						20	17	3	
SJ 03456 SJ 03441	29N 29N	10W 2		3 3 4 3						20	17	3	
SJ 03441 SJ 03470	29N 29N	10W 2		4 3 4 3						4020	30	10	
SJ 01474	29N	10W 2		4 4						25	/	TJ	
SJ 03180	29N	10W 2		4 4						50	15	35	
SJ 03713 POD1	29N	10W 2		2 3						265	20	245	
SJ 02820	29N	10W 2		4 1	1					82	16	66	
SJ 02896	29N	10W 2		1 4						110	34	76	
SJ 02275	29N	10W 2		1 4						40	20	20	
SJ 00092	29N	10W 2		2 4				,		33			
SJ 02802	29N	10W 2		3 1						132	30	102	
SJ 02907	29N	10W 2		3 2						60	10	10	
SJ 02122	29N 29N	10W 2		4 1						60	12	48	
SJ 01019	ZAN	TOW	40	4 3	3					50	4	46	

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

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Page	1	OT	1
Page	4	U1	4
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SJ 01056	29N	10W 27	3	2					50	31	19
SJ 02216	29N	10W 28	1	2					30	7	23
SJ 03582	29N	10W 28	1	3	3				10	4	6
SJ 02151	29N	10W 28	2	1	2	W	484600	2075600	37	20	17
SJ 03652	29N	10W 28	2	2	1				34	6	28
SJ 03142	29N	10W 28	2	2	2				38	22	16
SJ 03637	29N	10W 28	2	3	1				21	10	11
SJ 03582 POD2	29N	10W 28	2	3	3				28	5	23
SJ 02840	29N	10W 28	3	4	1				55	32	23
SJ 00506	29N	10W 28	4	3					78	55	23
SJ 00662	29N	10W 28	4	4	3				93	70	23
SJ 00497	29N	10W 29	3	2	3				85	35	50
SJ 03777 POD1	29N	10W 29	4	4	2		270344	2071311	100	50	50
SJ 00473	29N	10W 30	2	4					58	10	48
SJ 03743 POD1	29N	10W 33	4	4	3				490	140	350
SJ 01051	29N	10W 35	2	2	2				90	30	60
SJ 01050	29N	10W 36	1	4					85	38	47

Record Count: 49

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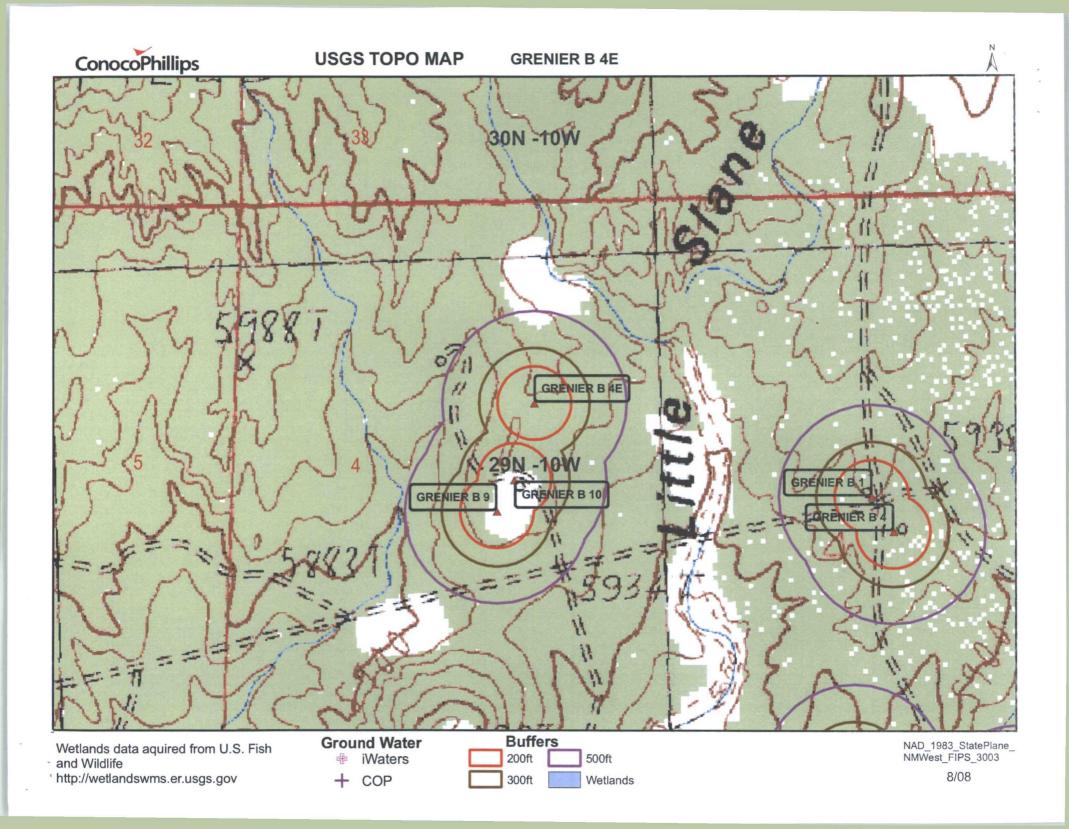
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SJ 00589		10W			1 1				175	150	25	
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SJ 01527	30N	10W		2	2				120	60	60	
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SJ 01102	30N	10W	08	2	4				200	159	41	
SJ 02998	30N	10W	08	3	3 1				260	117	143	
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# ConocoPhillips



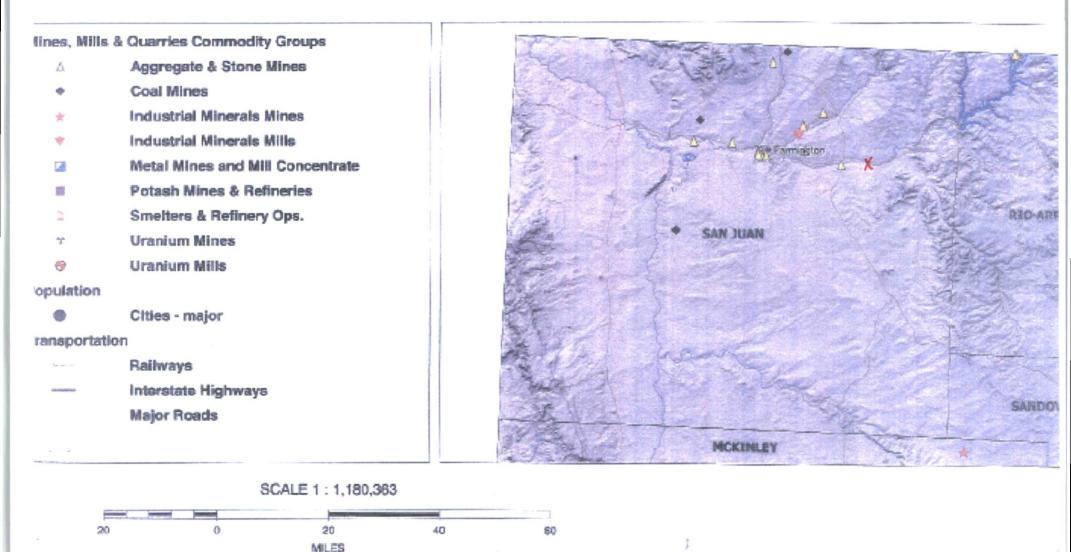


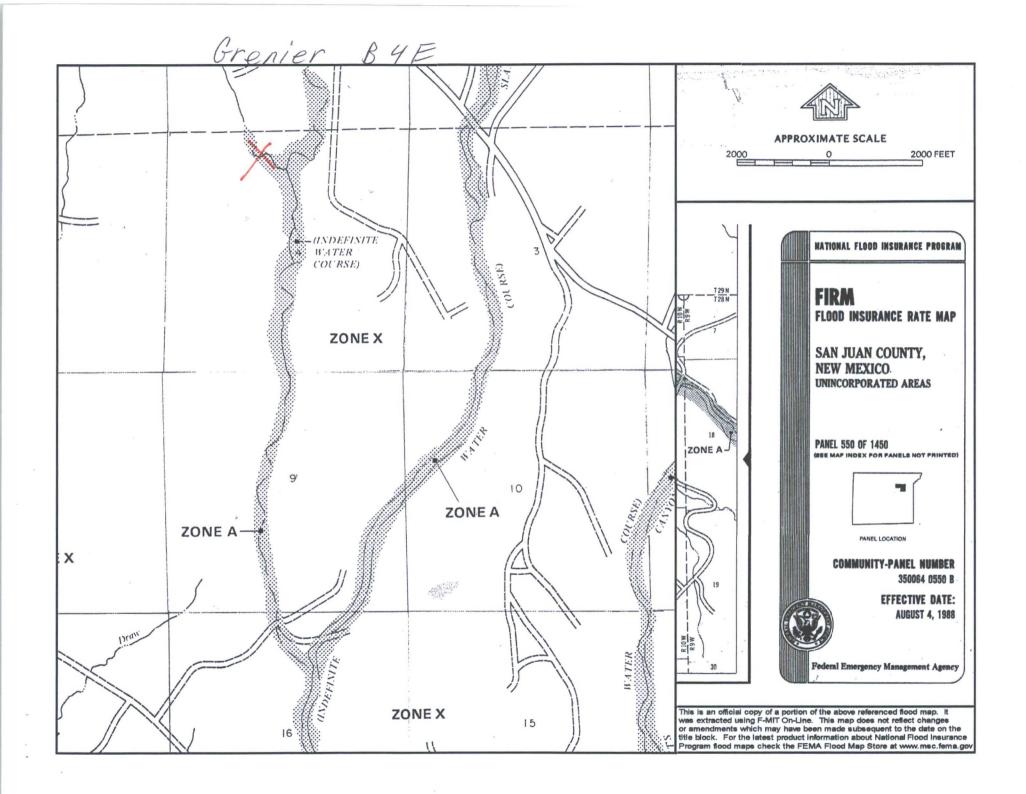
8/08

# Mines, Mills and Quarries Web Map

**GRENIER B 4E** 

Unit Letter: C, Section: 04, Town: 029N, Range: 010W





# **GRENIER B4 E**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'GRENIER B 4E', which is located at 36.75824 degrees North latitude and 107.89239 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 4 of Township 29 North Range 10 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 Blanco, located 4.3 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 17.5 miles to the west (National Atlas). The nearest highway is State Highway 575, located 0.8 miles to the northeast. The location is on BLM land and is 2,256 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1815 meters or 5953 feet above sea level and receives 11.5 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 97 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 518 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 636 feet to the east. The nearest water body is 5,674 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 3,756 feet to the south. 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 2,989 feet to the east. The nearest wetland is a 17.1 acre Ravine located 4,430 feet to the east. The slope at this location is 2 degrees to the southeast 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 NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Farb-Persayo-Rock outcrop complex, moderately steep' and is excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.1 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

#### **Regional Geological context:**

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

#### Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

#### References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

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

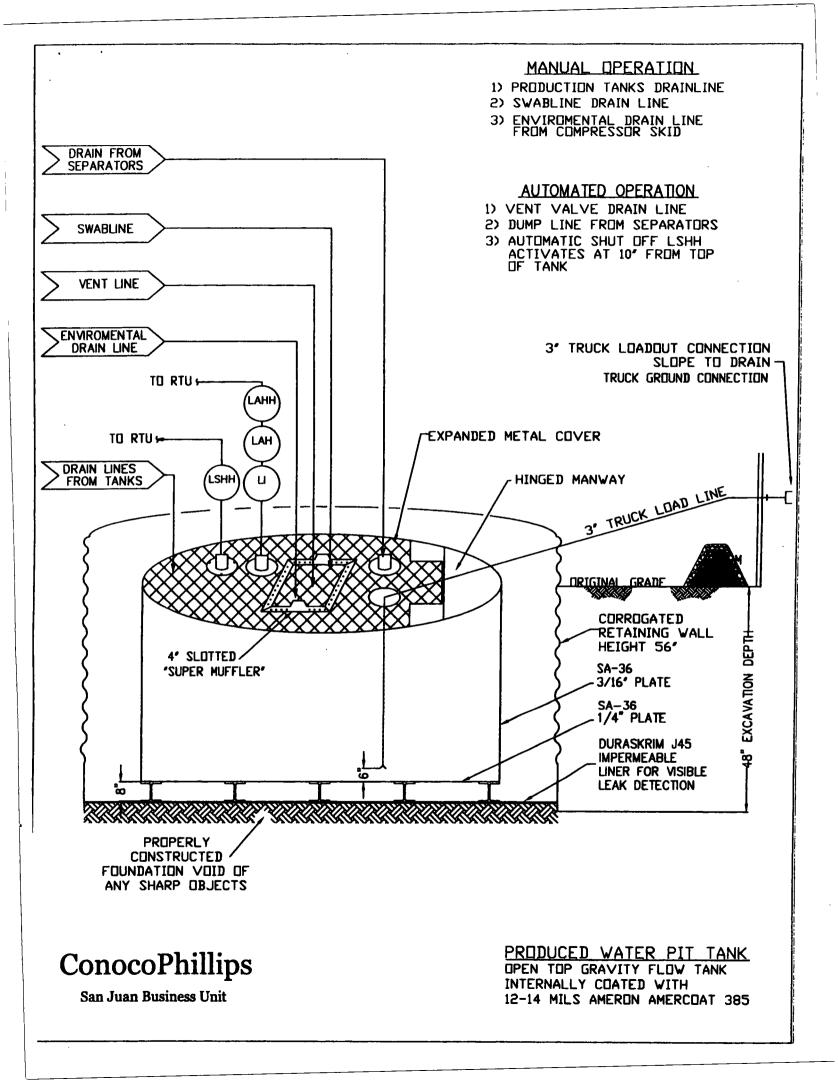
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does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

#### General Plan:

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

11/5/2008

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



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PROPERTIES	TEST METHOD	ل ، . در سایر ک	OBB	J36	BB		BB
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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 reinford	ement
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 ibf MD 79 ibf DD	90 lbf MD 70 ibf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf ME 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° Tensilé 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 ibf MD 90 ibf 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	180° F	180° F	180° F	180° F	180° F

MD = Machine Direction DD = Diagonal Directions

Minimum Use Temperature

CURA STORY

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

-70° F

-70° F

\*Dimensional Stability Maximum Value

-70° F

\*\*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.

# PLANT LOCATION

-70° F

R A V E N INDUSTRIES Sioux Falls, South Dakota

SALES OFFICE

-70° F

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

08/06

-70° F

# 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 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 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.
- 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.

11/5/2008

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