### **REGISTERED**

State of New Mexico

Energy Minerals and Natural Resources

Form C-144 July 21, 2008

District II

1625 N. French Dr., Hobbs, NM 88240

Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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District I

### Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank 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, 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 ordinance

environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil & Gas Company, LP  Address: PO Box 4289, Farmington, NM 87499  OGRID#: 14538
Facility or well name: SAN JUAN 30-6 UNIT 44A
API Number: 3003925637 OCD Permit Number:
U/L or Qtr/Qtr: C Section: 15 Township: 30N Range: 6W County: Rio Arriba
Center of Proposed Design: Latitude: 36.81759°N Longitude: -107.45294°W NAD: X 1927 1983
Surface Owner: X Federal State Trivate Tribal Trust or Indian Allotment
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 LLDPE HDPE PVC Other String-Reinforced  Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
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 prior 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  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
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

7 6	
Fencing: Subsection D of 19.15.17.11 NMAC es to permanent pit, temporary pits, and below-grade tanks)	£
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, host Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	pital, institution or church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  X Screen  Netting  Other  Monthly inspections (If netting or screening is not physically feasible)	Part of the second of the seco
Signer Subscrating C. Close views	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24". 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in Compitance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the fell of the control of the fell of the f	
g one of 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 Execution(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for Execution(s): Propriate (s): Propriate	
Fxcertion(s): Page 2015 Pa	or consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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 appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for does not apply to drying pads or above grade-tanks associated with a closed-loop system.  Ground water is less than 50 foot below the location of the string criteria and the application. Recommendations of acceptable appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for does not apply to drying pads or above grade-tanks associated with a closed-loop system.	
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes X No
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	Yes X No
(Applies to temporary, emergency, or cavitation nits and below and the law and	[ A 140
visual hispection (certification) of the proposed site; Aerial photo: Satellite image	□NA
within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of later to the same of	
The proof	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA
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 (configuration)	
adopted pursuant to NMSA 1978. Section 3-27-3, as a mondard municipal fresh water well field covered under a municipal ordinance	Yes X No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.	
- US Fish and Wildlife Wetland Identification map: Topographic map: Visual income:	Yes X No
Within the area overlying a subsurface mine.  Written confirmation or verification or verification or verification or verification or verification or verification or verification.	
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division 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	Yes XNo
Within a 100-year floodplain - FEMA map	Yes XNo

Instru	porary Pits, Emergency Pits and
X	Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Person of Pe
	Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
X	Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Paragraph (2) of Subsection B of 19.15.17.9
X	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Paragraph (2) of Subsection B of 19.15.17.9  Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC
X	
X	Proving and Wallichance Plan - based upon the appropriate and walling and wallichance Plan - based upon the appropriate and walling and wallichance Plan - based upon the appropriate and walling and
	Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
Пр	17.13.17.9 NMAC and 19.15.17.13 NMAC
Пы	eviously Approved Design (attach copy of design)  API
Close	d loop Sustain D
Instruc	d-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
	Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of S. I.
П	Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Н	Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
H	Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC  Operating and Maintenant Plans of 19.15.17.11 NMAC
	operating and iviaintenance Plan - based upon the appropriate requirement of the second of the secon
П	Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
<u> </u>	NMAC and 19.15.17.13 NMAC
	Approved Design (attach copy of design)
Prev	Viously Approved Operating and Maintenance Di
13	API API
Perman	ions: Each of the following items must be seen a subsection B of 19.15.17.9 NMAC
Instructi	ions: Each of the following items must be at the last of 19.15.17.9 NMAC
Пн	Subsection B of 19.15.17.9 NMAC
Пѕ	Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
	String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.9 NMAC  Climatological Factors Assessment
ПС	ertified Engineering Design Plans
D	ertified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
L	tike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  eak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Li	eak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC iner Specifications and Compatibility Assessment by the specification of the specific and the specific at th
☐ Qu	iner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC uality Control/Quality Assurance Construction and Installation Plan
L OF	perating and Maintenance Plan - based upon the arms.
Fre	eeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Nu	eeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC uisance or Hazardous Odors, including H2S, Prevention Plan
	let geticy Response Plan
U Oil	Field Waste Stream Characterization
☐ Mo	onitoring and Inspection Plan
Ero	osion Control Plan
☐ Clo	sure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	19.13.17.9 NMAC and 19.15.17.13 NMAC
oposed	Closure: 19.15.17.13 NMAC
or actions	S: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
1000	Drilling Workover Emergency Cavitation P&A Permanent Pit V Relevance To the Population P&A
	Alternative Liberow-grade Tank Closed-loop System
posed Cl	iosure Method: X Waste Excavation and Removal (Release Constant)
	Waste Removal (Closed-loop systems only)
	On-site Closure Method (only for temporary pits and closed-loop systems)
	LIM-place Burial   IOn-site Trench
	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	must be submitted to the Santa Fe Environmental Bureau for an idea
	definition but an including the consideration)
te Exca	vation and Removal Closure Plan Charlest and a second consideration)
ste Exca	wation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be seen as a check mark in the box, that the decision is a check mark in the box.
	wation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Confir	avation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  cols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  rmation Sampling Plan (if applicable), based was attached.
Confir	wation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. cols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC remaining Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC sal Facility Name and Permit Number (for the color of the colo
Confir	wation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. cols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC remaining Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC sal Facility Name and Permit Number (for the color of the colo
Confir Dispos Soil Ba	wation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  cols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  rmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  sal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  ackfill and Cover Design Specifications - based upon the appropriate
Confir Dispos Soil Ba	avation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  cols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  rmation Sampling Plan (if applicable), based was attached.

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tank Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids are required.	s or Haul-off Rine Only (10 15 17 12 2	
	nd drill cuttings. Use attachment if more than to	C) wo facilities
Disposal Facility Name:	sal Facility Permit #:	
amposti i demy Name:		and the second s
Will any of the proposed closed-loop system operations and associated activities occur  Yes (If yes, please provide the information No	on or in areas that will not be used 5.5.5	Charles par menantification of
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection I of  Site Reclamation Plan - based upon the appropriate requirements of Subsection I of	rements of Subsection H of 19,15,17,13 NM	나는 아이는 아니를 하다면 있는 시간이다. 하나 아니라 회원에 대한 경험을 모르게 하면 없는데 보다 하는데 하는데 하다 나는데 없다.
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommend certain siting criteria may require administrative approval from the appropriate district office or may be consideration of approval. Justifications and/or demonstrations of equivalency are required. Please of Ground water in least the consideration of the consideration of approval.	lations of acceptable source material are provided be considered an exception which must be supported.	clow. Requests regarding changes to
, and the required. Please r	efer to 19.15.17.10 NMAC for guidance.	ne 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 databases.		Tyes TNo
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from	nearby wells	Yes No
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 r	nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.		∐N/A
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from n	earby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse (measured from the ordinary high-water mark).	Nirse or lakahad	∐N/A
Topographic map; Visual inspection (certification) of the proposed site	anse of lakebed, sinkhole, or playa lake	Yes No
Within 300 feet from a permanent residence school beautiful to be proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at Visual inspection (certification) of the proposed site; Aerial photo; satellite image		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five house purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the Within incorporated municipal boundaries or within a defined.	the of the initial application	Yes No
pursuant to NMSA 1978, Section 3-27-3 as amended	red under a municipal ordinance adams	□Yes □No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the</li> <li>Within 500 feet of a wetland</li> </ul>	municipality	
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certific Within the area overlying a subsurface mine.)		
Within the area overlying a subsurface mine.	cation) of the proposed site	LITES LINO
- Written confiramtion or verification or map from the NM EMNED Minimum 12.		Yes No
the case of the ca		
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resource	es; USGS; NM Geological Society:	Yes No
within a 100-year floodplain.	C and a state of	
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following a check mark in the box, that the documents are attached.	ng items must bee attached to the closure p	an. Please indicate
String Criteria Compliance Demonstrations - based upon the agreement		reast manate,
and apoli tile appropriate requirements of a s		
Trench (II applicable) based upon the		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NM	Upon the appear	
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NN	AAC  APPROPRIATE requirements of 19.15.	17.11 NMAC
- based upon the appropriate		
Waste Material Sampling Plan - based upon the appropriate requirements of  Disposal Facility Name and Permit Number (for liquids doi!).	F of 19.15.17.13 NMAC	× 6
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.	17.13 NMAC	e achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.1  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.	7.13 NMAC	
appropriate requirements of Subsection G of 19.	15.17.13 NMAC	

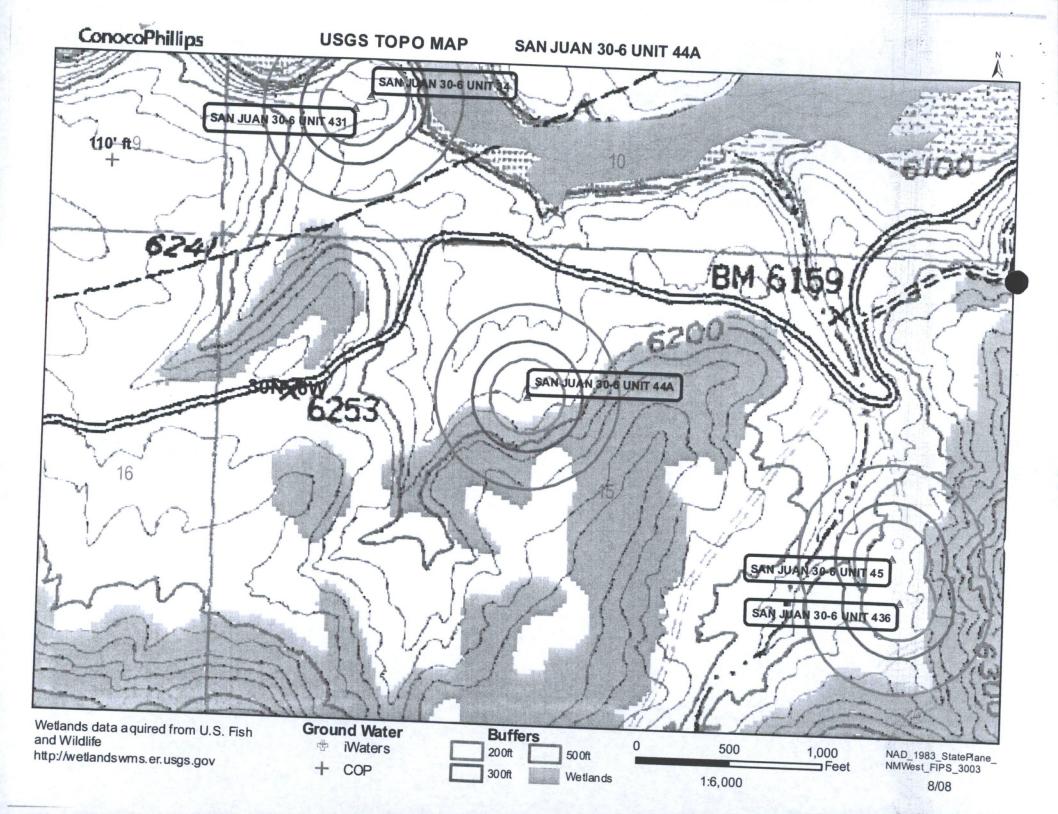
Name (Print):	nformation submitted with this application is true, ac Crystal Fafoya	Trans	best of my knowledge and belief.
Signature:	Crystel Jafoya	Title:	Regulatory Technician
e-mail address:	crystal tafoya @ conocoppullips.com	Date:	12/22/2008
to exact the end of the end of	Company of the Compan	Telephone:	505-326-9837
20	for the area of vice and operations.	LEB on or a	ACCES THAT TO SEE THE TEST OF THE TOTAL STATE OF THE CONTROL OF THE TOTAL STATE OF THE CONTROL O
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	Place a sure of the state of th
OCD Representative S		(only)	OCD Conditions (see attachment)
Title:			Approval Date:
riue:		OCD Permit	Number
21			· · · · · · · · · · · · · · · · · · ·
Closure Report (requir	red within 60 days of closure completion): Substructured to obtain an approved closure plan server		
nstructions: Operators are	required to obtain an approved closure plan prior t	section K of 19.15.17.13 NMAC	activities and submitting the closure report. The closure
pproved closure plan has	mitted to the division within 60 days of the completic	on of the closure activities	activities and submitting the closure report. The closure Please do not complete this section of the form until an
, real mass	been obtained and the closure activities have been co	ompleted.	ricase do not complete this section of the form until an
			ompletion Date:
2			
losure Method:			
Waste Excavation as		Alternative C	
If different from app	roved plan, please explain.	Alternative Closure Met	thod Waste Removal (Closed-loop systems only)
osure Report Regarding	Waste Removal Closure For Closed-loop Systems the facility or facilities for where the liquids, drilling		
structions: Please identify	the facility or facilities for where the liquids to the	That Utilize Above Ground	d Steel Tanks or Haul-off Rins Only
	you where the aquias, ariting	ng fluids and drill cuttings	d Steel Tanks or Haul-off Bins Only: were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility Perm	nit Number:
Were the closed-loop syste	em operations and associated activities performed on monstrate complilane to the items below)	Disposal Facility Perm	nit Number:
Yes (If yes, please der	monstrate compliane to the items below)	No	used for future service and opeartions?
Required for impacted are	as which will not be used for for		
	To Documentation)	utions:	
Soil Backfilling and C	over Installation		
Re-vegetation Applica	tion Rates and Seeding Technique		
losure Report Attachr	nent Checklist: Instructions: Each of the following		o the closure report. Please indicate, by a check mark in
be box, that the documents	are attached.	ng tiems must be attached to	the closure report. Please indicate, by a check mark in
	(surface owner and division)		
Proof of Deed Notice	(required for on-site closure)		
Flot Plan (for on-site	closures and temporary pits)		
Confirmation Samplin	ng Analytical Results (if applicable)		
waste Material Sampl	ing Analytical Results (if applicable)		
Disposal Pacility Nam	e and Permit Number		
Soil Backfilling and Co	over Installation		
Re-vegetation Applicat	tion Rates and Seeding Technique		
Site Reclamation (Phot	o Documentation)		
	on: Latitude:		
On-site Closure Location		ongitude:	NAD 1927 1983
On-site Closure Location			NAD [ 1927 [ 1983
On-site Closure Location			
On-site Closure Location	001		
On-site Closure Location  tor Closure Certification  verify that the information	on:		
On-site Closure Location  tor Closure Certification  verify that the information	on:	t is ture, accurate and comm	lete to the host of make
tor Closure Certification of the Complete With the Complete With all appliance complies and complies with all appliance complies and complies complies and co	on:	t is ture, accurate and comp in the approved closure pla	lete to the best of my knowledge and belief. I also certify that
On-site Closure Location  tor Closure Certification  verify that the information	001		lete to the best of my knowledge and belief. I also certify that n.
tor Closure Certification of the complies with all applications of the complies with all applications.	on:	it is ture, accurate and comp in the approved closure plan Title:	lete to the best of my knowledge and belief. I also certify that n.
tor Closure Certification of the Complete With the Complete With all appliance complies and complies with all appliance complies and complies complies and co	on:		lete to the best of my knowledge and belief. I also certify that n.

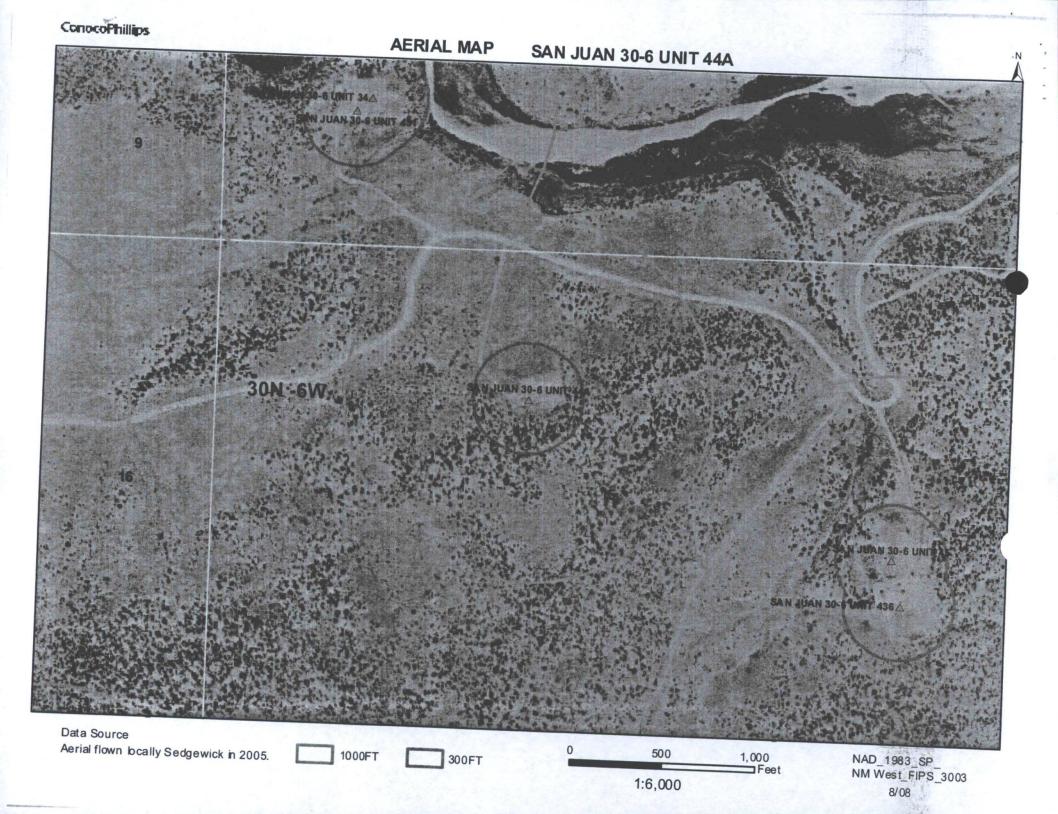
# New Mexico Office of the State Engineer POD Reports and Downloads

10 <b>k</b> 312	Township: 30N Range: 06W Sections:
<u>u</u>	NAD27 X: Y: Zone: Search Radius:
County:	Basin: Number: Suffix:
Owner Na	me: (First) (Last) C Non-Domestic C Domestic © All
РО	D / Surface Data Report Avg Depth to Water Report Water Column Report
	Clear Form iWATERS Menu Help
	WATER COLUMN REPORT 08/20/2008
POD Number SJ 00741	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)  Tws Rng Sec q q q Zone X Y Well Water (in feet)

POD Number	rters ar Iws Rng	e bi	gge	est	t to	3=SW 4=SE) smallest) Zone	x	Y	Depth Well	Depth Water	Water	(in	feet)
CT 00041	30N 06W 30N 06W							-	2038	300	1738		
CT DODAO	30N 06W								349 420		1730		

Record Count: 3



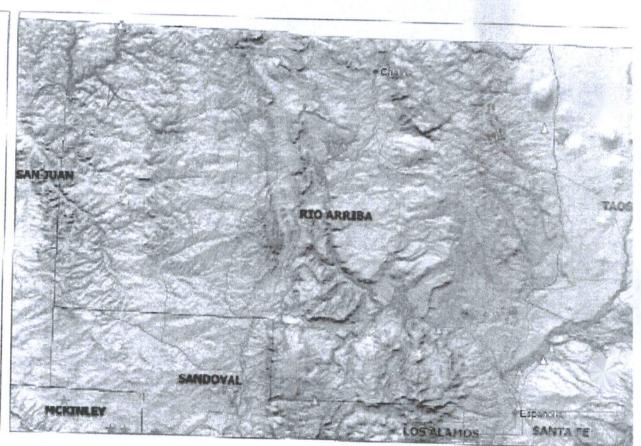


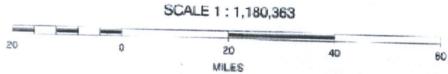
# Mines, Mills and Quarries Web Map

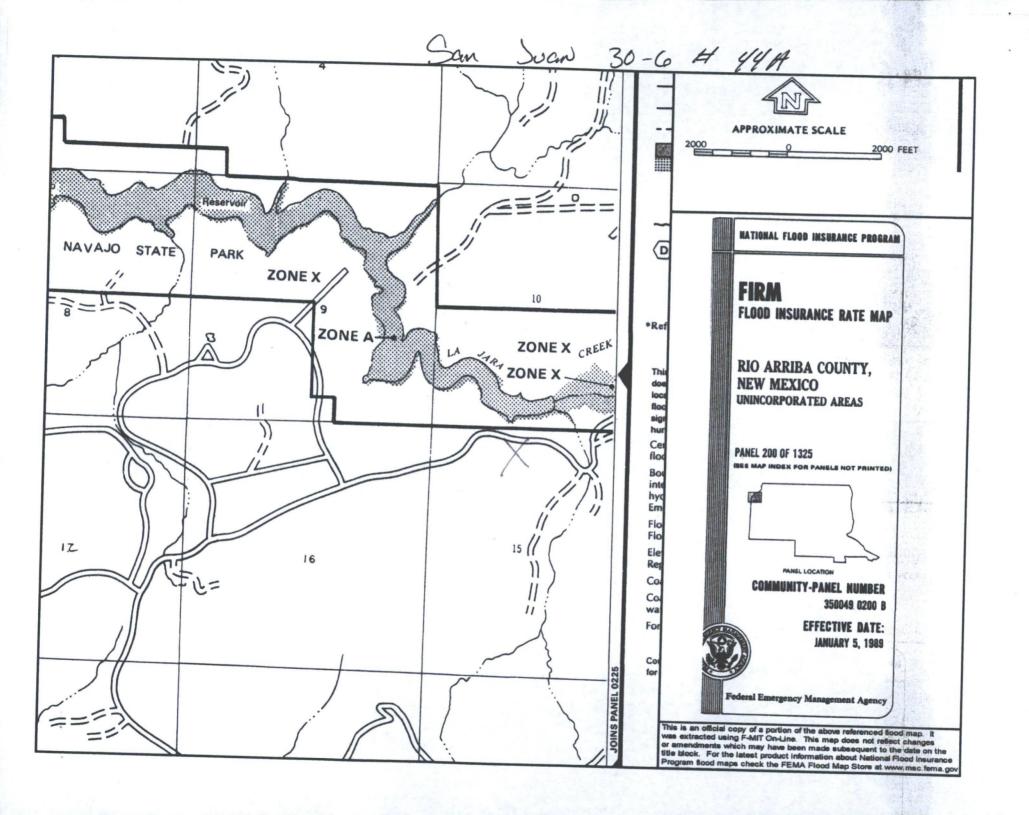
SAN JUAN 30-6 UNIT 44A

Unit Letter: C, Section: 15, Town: 030N, Range: 006W

Mines, Mills	& Guarries Commodity Groups
Δ	Aggregate & Stone Mines
φ	Coal Mines
	Industrial Minerals Mines
♥	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
** **	Smelters & Refinery Ops.
*	Uranium Mines
9	Uranium Mills
Population	
	Cities - major
Transportation	on
+	Railways
strate(sixua-epp)	Interstate Highways
	Major Roads







### SAN JUAN 30-6 UNIT 44A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 30-6 UNIT 44A', which is located at 36.81759 degrees North latitude and 107.45294 degrees West longitude. This location is located on the Gomez Ranch 7.5' USGS topographic quadrangle. This location is in section 15 of Township 30 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Allison, located 14.4 miles to the north. The nearest large town (population greater than 10,000) is Durango, located 39.4 miles to the northwest (National Atlas). The nearest highway is US Highway 64, located 8.0 miles to the southwest. The location is on BLM land and is 271 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 1893 meters or 6209 feet above sea level and receives 14 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Mixed Salt Desert Scrub as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 55 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 named San Juan River and is 1,311 feet to the north and is classified by the USGS as a perennial stream. The nearest perrenial stream is named San Juan River and is 1,311 feet to the north. The nearest water body is named Navajo Reservoir and is 1,087 feet to the north. It is classified by the USGS as a perennial lake and is 15,452.4 acres in size. The nearest spring is 32,208 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 2,901 feet to the northwest. The nearest wetland is a 0.6 acre Freshwater Forested/Shrub Wetland located 1,027 feet to the north. The slope at this location is 10 degrees to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 6.7 miles to the east 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.

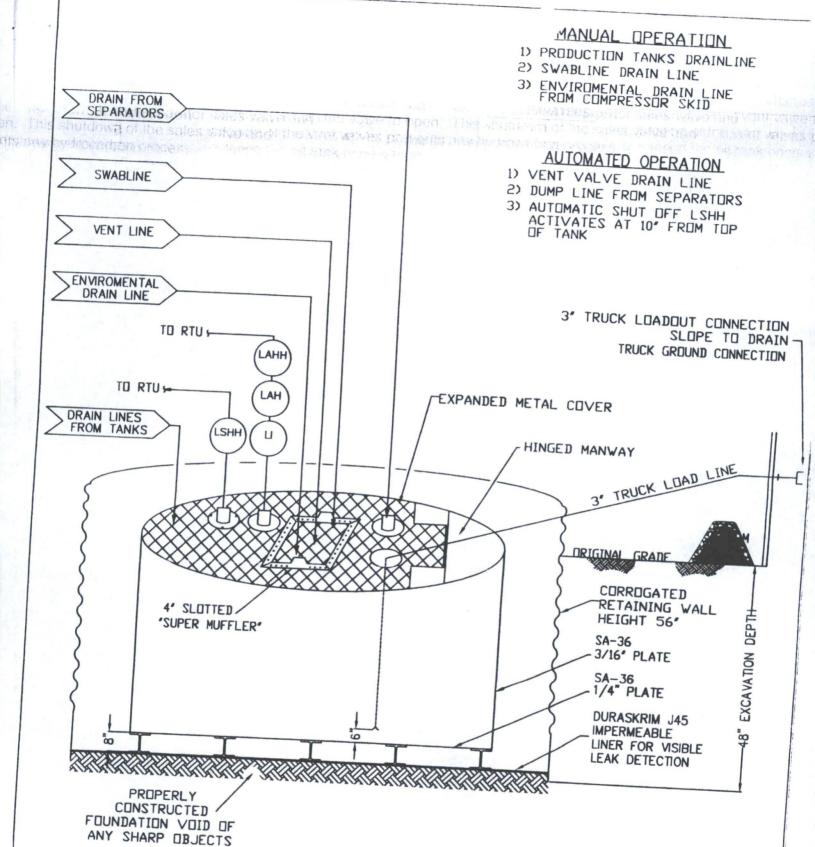
### Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

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



## ConocoPhillips

San Juan Business Unit

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

PROPERTIES	TEST METHO	D	J30BB	p	1265	55			
Apparent		Min. Roll Averages	Typical Ro Averages		, thiont it	oll Min Roll	J45BB Typical Ro		
Appearance			ack/Black	- I I I I I I I I I I I I I I I I I I I	s Average	s Averages			
Thickness	ASTM D 5199		27		ack/Black	Bla	lack/Black		
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs	30 mil	32 mil	36 mil	40 mil	45 mil		
Construction	-	(18.14)	(20.16)	151 lbs 168 (21.74) (24.1		(27.24)	210 lbs (30.24)		
Ply Adhesion	ASTM D 413	1011	trusion laminat	ed with encaps	ulated tri-directi	ional scrim reinfo	)rcement		
1. To all of			20 lbs	19 lbs	24 lbs	25 lbs	31 lbs		
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	I O IDI IVIL	110 lbf MD			
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD	550 MD	87 lbf DD 750 MD		105 lbf DD		
1" Tensile Elongation @	1000		750 DD	550 DD	750 DD	550 MD 550 DD	750 MD 750 DD		
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		
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD	100 lbf MD	36 DD		
Grab Tensile	ASTM D 7004	180 lbf MD	218 lbf MD		92 lbf DD	100 lbf DD	118 lbf DD		
Francisco T		180 lbf DD	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	160 lbf MD	193 lbf MD		
Dimensional Stability	ASTM D 1204	<1	<0.5		172 lbf DD	160 lbf DD	191 lbf DD		
Puncture Resistance	ASTM D 4833	50 lbf		<1	<0.5	<1	<0.5		
Maximum Use Temperature		180° F	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf		
Minimum Use Temperature			180° F	180° F	180° F	180° F	180° F		
D = Machine Direction D = Diagonal Directions		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F		



Note: Minimum Roll Averages are set to take into account product variability in addition to

\*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

VICTOR PAVEN 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

### 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

### 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 equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree

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 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 replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs

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 property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, 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 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.

### urlington 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, 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
- 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 belowleast 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 oil from the fluid surface of a below-grade tank in an effort to prevent significant include the items listed above and will be maintained for five years.
- 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 required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within immediate verbal notification pursuant to Subsection B, Paragraph (1), and 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:

- 1. 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
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other 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
  - ii. Location by Unit Letter, Section, Township, and Range. Well name
- 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