District I	State of New Mexico	Form C-144
- REGISTERED	rtment tion Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
L 1000 KIO BRAZOS K.J. AZTEC, NM 87410 District IV 1220 S. St. Francis Dr. Santa Fe, NM 87505	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Pit Closed-	Loop System Below-Grad	le Tank or
Proposed Alternativ	ve Method Permit or Closur	re Plan Application
Type of action: X Permit of a p Closure of a Modification Closure plan below-grade	bit, closed-loop system, below-grade pit, closed-loop system, below-grade to an existing permit only submitted for an existing permit tank, or proposed alternative method	tank, or proposed alternative method tank, or proposed alternative method itted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (Form	C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request
Please be advised that approval of this request does not r	relieve the operator of liability should operations	result in pollution of surface water, ground water or the
	esponsionity to comply with any other appreade	; governmental autionty's rules, regulations of ordinances.
Operator: Burlington Resources Oil & Gas Compar	ny, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499		
Facility or well name: SAN JUAN 28-4 UNIT 31		
API Number: <u>3003920084</u>	OCD Permit Number	er:
U/L or Qtr/Qtr: M Section: 32 Tow Center of Proposed Design: Latitude: 36.6 Surface Owner: X Federal State	vnship: 28N Range:	4W County: Rio Arriba -107.27895°W NAD: X 1927 In Allotment In Allotment
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickr String-Reinforced Liner Seams: Welded Factory Other	Aness mil [] LLDPE []	HDPE PVC Other
3 Closed-loop System: Subsection H of 19.15,17.1 Type of Operation: P&A Drilling a new weet Drying Pad Above Ground Steel Tanks C Lined Unlined Liner type: Thickney Liner Seams: Welded Factory Other	I NMAC ell Workover or Drilling (Applies to notice of intent) Haul-off Bins Other ess mil LLDPE I	D activities which require prior approval of a permit or
4 X Below-grade tank: Subsection I of 19.15.17.11 NM Volume: 120 bbl Type of flut Tank Construction material: M Secondary containment with leak detection X Visible sidewalls and liner Visible sidewalls and liner Liner Type: Thickness mil	AAC uid: <u>Produced Water</u> letal /isible sidewalls, liner, 6-inch lift and aut walls only Other HDPE PVC XOther I	comatic overflow shut-off
5 <u>Alternative Method:</u> Submittal of an exception request is required. Exceptions	must be submitted to the Santa Fe Enviro	onmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-orade tanks)							
Chain link, six fort in bright two strands of backs to the control of the control							
Four foot height, four strands of barbed wire events speed between one of <i>footed within 1000 feet of a permanent residence, school, hospital, institution or church</i>)							
X Alternate. Please specify 4' hog wire fencing topped with two strands bached 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 Simon Victoria di Catalana							
12" X 24", 2" lettering, providing Operator's name site formation and							
X Signed in compliance with 19.15.3.103 NMAC							
9							
Administrative Approvals and Exceptions:							
Please check a box if one or more of the following in the providence of the following in the providence.							
X Administrative approval(s): Requests must be submitted to the approximation in the submitted to the							
(Fencing/BGT Liner)	consideration of approval.						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10 Siting Criterio (manufication data in the second							
Instructions: The applicant must demonstrate compliance for each vision exited to the state of the second							
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the							
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Bloger provide 10 March 2017 10 March 2017							
does not apply to drying pads or above grade-tanks associated with a closed-loop system.							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes XNo						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa							
- Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence school bespital institution of the proposed site							
application.	Yes XNo						
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)							
- visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
(Applied to parameter risk)	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 departie of the households use for departie of the households use for departie of the households use for departies of the household							
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes X No						
- 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	Ves VINo						
- Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland.	TYes INNO						
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 VINO						
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 							
Within a 100-year floodplain							
- FEMA map	Yes X No						

Temperature Pies American Pies and Redue against Tanks Permit Automation Materia Materi	11			
Implementation of the second seco	Temporary Pits, Emerg	gency Pits and Below-grade Tanks stlowing items must be attached to the ap	Permit Application Attac	hment Checklist: Subsection B of 19.15.17:9 NMAC
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1 Cheed-Janp Systems Permit Application Attachment Checklist; Subsection B of 19.15.17.9 NMAC Image: Each of the following turns must be attached to the upplication, Plazer indicate, for a theck must in the line, that the dimension of antipace in the interments of 19.15.17.10 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC Image: Description of the appropriate requirements of 19.15.17.11 NMAC <td>Previously Approved [</td> <td>Design (attach copy of design)</td> <td>АРІ</td> <td>or Permit</td>	Previously Approved [Design (attach copy of design)	АРІ	or Permit
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□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Precboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H2S, Prevention Plan □ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan □ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 4 ropposed Closure: • Inf.17.13 NMAC structions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. • prelining □/ Workover □/ Emergency □/ Cavitation □/ P&A □/ Permanent Pit ∑Below-grade Tank □/ Closed-loop System □ △Alternative • oposed Closure Method: □ Waste Excavation and Removal (Closed-loop systems only) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Quality Control/Qua	lity Assurance Construction and Inst	ulation Dian	trements of 19.15.17.11 NMAC
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□ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC * topseed Closure: * Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC * topseed Closure: * Permanent Pit * Below-grade Tank □ Closure Method: □ Waste Excavation and Removal □ On-site Closure Method ionly for temporary pits and closed-loop systems) □ □ □ On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) ************************************	Nuisance or Hazardo	us Odors, including H2S, Prevention	Plan	3 01 17.15.17.11 NMAC
□ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan □ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 4 7 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 4 7 7 9 10 11 11 12 13 14 15 15 16 16 17 17 18 19 19 19 10 11 11 12 13 14 14 14 14 14 15 16 16 17 18 19 19 110 110 111	Emergency Response	: Plan		
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Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 4 4 roposed Closure: 19.15.17.13 NMAC sistructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. ype: Drilling Workover	Erosion Control Plan			
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 X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 	X Soil Backfill and Cover	r Design Specifications	illing fluids and drill cuttings	
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	X Re-vegetation Dian	sed upon the second sed upon	the appropriate requirement	s of Subsection H of 19.15.17.13 NMAC
A site rectaination rian - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	V Site Paulametian Di-	based upon the appropriate requirement	its of Subsection 1 of 19.15.1	7.13 NMAC
	A She Reclamation Plan	- based upon the appropriate requiren	nents of Subsection G of 19.	15.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize A	bove Ground Steel Tanks or Haut off Bias Oats (10.15.17.15.05.05.							
Instructions: Please identify the facility or facilities for the disposal are reasoned	of liquids, drilling thids and drill cuttings. Use attachment if more than i	C) Byo-facilities						
Disposal Facility Name								
Disnoval Facility Nama	Disposal Facility Permit #:							
Will invit the provided lead t	Disposal Facility Permit #:							
Yes (If yes, please provide the information	sociated activities occur on or in areas that <i>will not</i> be used for futu No	re service and operations?						
Required for impacted areas which will not be used for future servic	e and operations:							
Soil Backfill and Cover Design Specification - based up	pon the appropriate requirements of Subsection H of 19.15.17.13 N	MAC						
Site Reclamation Plan - based upon the appropriate require	ements of Subsection I of 19.15.17.13 NMAC							
the rechanalist fair based upon the appropriate requ	airements of Subsection G of 19.15.17.13 NMAC							
17								
Siting Uriteria (Regarding on-site closure methods only: 1) Instructions: Each other existing a series of the second second second second second second second second second	9.15.17.10 NMAC							
certain siting criteria may require administrative approval from the approp	the closure plan. Recommendations of acceptable source material are provided : riate district office of may be considered on a suming still.	below. Requests regarding changes to						
for consideration of approval. Justifications and/or demonstrations of equiv	valency are required. Please refer to 19.15.17.10 NMAC for guidance.	the Santa Fe Environmental Bureau office						
Ground water is less than 50 feet below the bottom of the burie	d waste.							
 NM Office of the State Engineer - iWATERS database search; 	USGS: Data obtained from nearby wells							
Ground water is between 50 and 100 feet below the bottom of a	A Latin L							
- NM Office of the State Engineer - iWATERS database sugreb-		Yes No						
and and angineer twist takes database search.	USUS: Data obtained from nearby wells	N/A						
Ground water is more than 100 feet below the bottom of the but	ried waste.	Yes No						
 NM Office of the State Engineer - iWATERS database search; I 	USGS: Data obtained from nearby wells							
Within 300 feet of a continuously flowing watercourse, or 200 feet of (measured from the ordinary high-water mark).	any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No						
- Topographic map; Visual inspection (certification) of the propos	sed site							
Within 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site: Aerial photo	on, or church in existence at the time of initial application.	Yes No						
Within 500 horizontal feet of a private, domestic fresh water well or sp purposes, or within 1000 horizontal fee of any other fresh water well o NM Office of the State Engineer, 30/ATERS instance 1/	ring that less than five households use for domestic or stock watering r spring, in existence at the time of the initial application.	Yes No						
Within incorporated municipal boundaries or within a defined municip pursuant to NMSA 1978, Section 3-27-3, as amended.	spection (certification) of the proposed site al fresh water well field covered under a municipal ordinance adopted	Yes No						
Written confirmation or verification from the municipality; Writt	en approval obtained from the municipality							
US Fish and Wildlife Watered Identification of the second		Yes No						
Within the area overlying a subsurface mission	ap; Visual inspection (certification) of the proposed site							
Written confirmation or verification or man from the NM EMNPT	O Mining and Minut District	Yes No						
Within an unstable area.	Southing and winteral Division							
- Engineering measures incorporated into the design; NM Bureau of Topographic map	f Geology & Mineral Resources: USGS; NM Geological Society:	Yes No						
Within a 100-year floodplain. - FEMA map		Yes No						
18 Dr.Site Closure Plan Checklist, (10.15.17.17.5).04400.4								
y a check mark in the box, that the documents are attached.	nons. Each of the following items must bee attached to the closur	re plan. Please indicate,						
Siting Criteria Compliance Demonstrations - based upon th	he appropriate requirements of 19.15.17.10 NMAC							
Proof of Surface Owner Notice - based upon the appropria	te 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 bu	irial of a drying pad) - based upon the appropriate requirements of the	0.15.17.11.004.00						
Protocols and Procedures - based upon the appropriate requ	uirements of 19.15.17.13 NMAC	9.15.17.11 NMAC						
Confirmation Sampling Plan (if applicable) - based upon th	e appropriate requirements of Subsection F of 10 15 17 12 NMAG							
Waste Material Sampling Plan - based upon the appropriate	creduirements of Subsection F of 10.15.17.13 NMAC							
Disposal Facility Name and Permit Number (for liquide dri	illing fluids and drill cuttings or in ages on the							
Soil Cover Design - based upon the appropriate requirement	its of Subsection H of 19.15.17.13 NMAC	not be achieved)						
Re-vegetation Plan - based upon the appropriate requirement	nts 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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Operator Application	a Certification:		
I hereby certify that the i	nformation submitted with this application is true, acc	urate and complete to the	best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	instal Taleya	Date:	12/22/2008
e-mail address:	anystai tafoyarg sonocophillis.com	Telephone:	505-326-9837
20 OCD Annróval:	Permit Application (including storage storage)		
		Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative	Signature:		Approval Date:
Title:		OCD Perm	it Number:
11			
Closure Report (reau	ired within 60 days of closure completion):	at Marcin Sector Sector Sector	
Instructions: Operators a	re required to obtain an approved closure plan prior to	ection K of 19.15.17.13 NMAC o implementing any closu	re activities and submitting the closure report. The closure
report is required to be st approved closure plan ha	ibmitted to the division within 60 days of the completion	m of the closure activities.	Please do not complete this section of the form until an
opporter trastice plan ha	speen optanied and the closure activities have been ce	ompleted.	
		Closure	Completion Date:
22			
Unsure Method:			
	and Removal On-site Closure Method	Alternative Closure N	Aethod Waste Removal (Closed-loop systems only)
	pproved plan, please explain.		
23			
Instructions: Please iden	ig Waste Removal Closure For Closed-loop Systems	That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only:
vere utilized.	is the factory of factories for where the liquids, dritte	ing fluids and drill cutting	gs were disposed. Use attachment if more than two facilities
Disposal Facility Name		Disposal Facility P	emit Number:
Disposal Facility Name	e:	Disposal Facility P	ermit Number:
Were the closed-loop s	ystem operations and associated activities performed o	on or in areas that will not	be used for future service and opeantions?
Yes (If yes, please	demonstrate compliane to the items below)	No	
Required for impacted	areas which will not be used for future service and ope	erations:	
Sile Reclamation (Photo Documentation)		
Be-vegetation App	d Cover Installation		
	incation Rates and Seeding Technique		
4 Closure Report Atta	chment Checklist, Instructions, Each of the City		
the box, that the docum	tents are attached.	wing tiems must be attach	ed to the closure report. Please indicate, by a check mark in
Proof of Closure	Notice (surface owner and division)		
Proof of Deed No	tice (required for on-site closure)		
Plot Plan (for on-	site closures and temporary pits)		
Confirmation San	npling Analytical Results (if applicable)		
Waste Material Sa	ampling Analytical Results (if applicable)		
Disposal Facility	Name and Permit Number		
Soil Backfilling a	nd Cover Installation		
Re-vegetation App	plication Rates and Seeding Technique		
Site Reclamation	(Photo Documentation)		
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New Mexico Office of the State Engineer

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New Mexico Office of the State Engineer POD Reports and Downloads	
Township: 28N Range: 04W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Suffix:	
Owner Name: (First) (Last) C Non-Domestic C Domestic	All
POD / Surface Data Report Avg Depth to Water Report Water Column Report	
Clear Form iWATERS Menu Help	
WATER COLUMN REPORT 08/20/2008	
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wate	r (in
POD Number Tws Rng Sec q q q Zone X Y Well Water Colum	n
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SJ 01049	27N	04W 18	4 2	2				2054	750	2204	
07 01205	27N	041 34	4 4	4				3054	150	2004	

Record Count: 3

SJ 01205

27N 04W 34

444



ConocoPhillips

AERIAL MAP SAN JUAN 28-4 UNIT 31



Mines, Mills and Quarries Web Map

SAN JUAN 28-4 UNIT 31

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



SAN JUAN 28-4 UNIT 31

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-4 UNIT 31', which is located at 36.61105 degree, North latitude and 107.27895 degree, West longitude. This location is located on the Vigas Canyon 7.5' USCS topographic quadrangle. This location is in section 32 of Township 28 North Range 4 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Dulce, located 27.2 miles to the northeast. The nearest large town (population greater than 10.000) is Farmington, located 52.2 miles to the west (National Atlas). The nearest highway is US Highway 64. located 6.9 miles to the north. The location is on National Forest land and is 6,234 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blance Canyon. New Mexico, Sub-basin. This location is located 2117 meters or 6943 feet above sea level and receives 15 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinor-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 173 fact. 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 123 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,943 feet to the southwest. The nearest water body is 3,571 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 976 feet to the south. All stream, river, water body and spring intormation was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 1,734 feet to the southeast. The nearest wetland is a 0.3 acre Freshwater Forested/Shrub Wetland located 8,442 feet to the southeast. The slope at this location is 3 degree, 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 SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all age's substrate. There is no SSURGO soil data available for this location. The nearest underground mine is 15.6 miles to the north as indicated on the Wines, 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 overlass 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 interpedded secuence 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 pasin). Ground water is associated with alluvial and iluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such candstone 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 0.45 to 64 gallons per minute and the median is 5 gailons per minute. Most of the weaks provide water to investock 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 destriction of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective lipsharge to the unit.

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

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

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

General Plan:

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

9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.

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- 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.



PROPERTIES TEST METHOD J30BB J36BE **J45BE** Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Averages Typical Roll Averages **Averages** Averages Averages Averages Appearance Black/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 126 lbs ASTM D 5261 140 lbs (oz/vd²) 151 lbs 168 lbs 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement **Ply Adhesion ASTM D 413** 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 lbf MD 113 Ibf MD 110 lbf MD 138 lbf MD 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD **ASTM D 7003** 750 MD Break % (Film Break) 550 MD 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD ASTM D 7003 20 MD Peak % (Scrim Break) 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD 180 lbf MD ASTM D 7004 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD **ASTM D 4533** 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD * Dimensional Stability ASTM D 1204 <1 < 0.5 <1

64 lbf

180° F

-70° F

MD = Machine Direction DD = Diagonal Directions

Puncture Resistance

Maximum Use Temperature

Minimum Use Temperature

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

*Dimensional Stability Maximum Value

50 lbf

180° F

-70° F

ASTM D 4833

**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.

65 lbf

180° F

-70° F

< 0.5

83 lbf

180° F

-70° F

WITE. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, do quarantee of satisfactory results from resultice upon contained information or recommendations and tionalms all ability for resulting loss or damage

RAVEN NDUSTRIES

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

<1

80 lbf

180° F

-70° F

<0.5

99 lbf

180° F

-70° F

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

08/06



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 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.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, nonwaste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques •
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice