District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-144 July 21, 200
REGISTER	ED -rvation Division h St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks. submit to the appropriate NMOCD District Office.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	sama re, 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	e Tank, or
Propose	d Alternative Method Permit or Closur	re Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade t	ank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permi	tted or non-permitted pit, closed-loop system,
	below-grade tank, or proposed alternative method	
Instructions: Please submit one ap	plication (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 relieve the operator of liability should operations t	esult in pollution of surface water, ground water or the
environment. Nor does approval reliev	ve 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	OGRID#: 14538
Address: PO Box 4289, Farmington	, NM 87499	
Facility or well name: SAN JUAN 27	7-5 UNIT 85E	
API Number: 30	003925829 OCD Permit Numbe	от:
U/L or Qtr/Qtr: C Section	n: 5 Township: 27N Range:	5W County: Rio Arriba
Center of Proposed Design: Latitude:	36.60794°N Longitude:	-107.38198°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or India	n Allotment
Temporary: Drilling Workd Permanent Emergency Ca Lined Unlined Lin String-Reinforced Liner Seams: Welded Fac	over vitation P&A er type: Thickness mil LLDPE story Other Volume:	HDPE PVC Other
3 Closed-loop System: Subsection Type of Operation: P&A Image: Subsection Image: Drying Pad Above Groun Above Groun Image: Lined Unlined Liner Liner Seams: Welded Face	on H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) d Steel Tanks Haul-off Bins Other type: Thicknessmil LLDPE H story Other	activities which require prior approval of a permit or HDPE PVD Other
4 X Below-grade tank: Subsection I of Volume: Volume: 120 bb Tank Construction material:	of 19.15.17.11 NMAC I Type of fluid: <u>Produced Water</u> <u>Metal</u> ection X. Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other OtherOther	omatic overflow shut-off
Submittal of an exception request is requ	uired. 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

6								
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to nerotament pit, temporary one and bat								
Cham link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution, as does 12								
Pour foot height, four strands of barbed wire evenly spaced between one and four feet								
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.								
7								
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent bits and permanent open text and a								
X Screen Netting Other								
Monthly inspections (If netting or screening is not physically feasible)								
Signs: Subsection C of 19.15.17.11 NMAAC								
12" X 24", 2" lettering providing Observed, name site level								
X Signed in compliance with 19 15 3 103 NMAC								
Administrative Approvals and Exceptions								
Justifications and/or demonstrations of equivalency are required. Please refer to 10.15.17 NMAAC for the								
Please check a box if one or more of the following is requested, if not leave blank.								
X Administrative approval(s): Requests must be submitted to the appropriate division								
(Fencing/BGT Liner)	for consideration of approval.							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
0								
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 accentable								
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 on exception which much be the second seco								
consideration of approval. Applicant must attach justification for request. Please refer to 19, 15, 17, 10 NMAC for guidence. Siling with								
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 nit permanent nit on below and the b								
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes X No							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakehold sinkhold and								
lake (measured from the ordinary high-water mark).	Yes X No							
 Topographic map; Visual inspection (certification) of the proposed site 								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial								
application.								
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.								
(Applied to permanent pits)								
 Visual inspection (certification) of the proposed site; Aerial photo: Satellite image 								
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock waterin								
but pusses, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.								
- NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the property in								
Within incorporated municipal boundaries or within a defined equivilent front and this feet of the state of t								
idopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes X No							
- Written confirmation or verification from the municipality; Written approval obtained from the municipality								
Vithin 500 feet of a wetland.	Yes XINO							
Within the area quarking a submittation map; Topographic map; Visual inspection (certification) of the proposed site								
- Written confirmation or verification or map from the NM EMNIPD Minima and the second second	Yes X No							
Vithin an unstable area.								
- Engineering measures incorporated into the design: NM Bureau of Geology & Minard Based and Based and Annual Party of Coology & Minard Based and Annual P	Yes X No							
ociety; Topographic map	_							
Vithin a 100-year floodplain								
- FEMA map								

<u>Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection Red 10.15.17.05044.0	
X Hydrogeologic Report (Bolow areas Transport)	
Ilydrogeologic Data (Temporary and Emergency Bits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
X Siting Criteria Compliance Demonstrations - based upon the requirements of Paragraph (2) of Subsection B of 19:15.17.9	
X Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC	
X Operating and Maintenance Plan based upon the appropriate requirements of 19.15.17.11 NMAC	
X Closure Plan (Please complete Boser 11 the state of the second state of 19, 15, 17, 12 NMAC	
19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API	
12 OF Permit	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC	
Geologic and Hydrogeologic Data (only for on site closure).	
Siting Criteria Compliance Demonstrations (only for ourshie closule) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9	
Design Plan - based upon the appropriate requirements of 10.15.17.10 NMAC	
Operating and Maintenance Plan, based upon the	
Closure Plan (Please complete Boxes 11 the set to a set a propriate requirements of 19.15.17.12 NMAC	
NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design)	
Previously Approved Operating and Maintenance Plan	
Permanent Pits Permit Application Checklist: Subsection P of 10 15 17 0 Min 4 m	=
Instructions: Each of the following items must be attached to the annlication. Places indicate the state of the following items must be attached to the annlication.	- {
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection R of 10 16 17 0 10 6 5	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 10.15.17.9 NMAC	
Climatological Factors Assessment	
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC	
Liner Specifications and Gran within	
Quality Control/Quality Assurance Construction 11 - 5 and upon the appropriate requirements of 19:15:17:11 NMAC	
Operating and Maintenance Plan - based upon the appropriate and installation Plan	
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Nuisance or Hazardous Odors, including H2S, Prevention Plan	
Emergency Response Plan	
Oil Field Waste Stream Characterization	
Monitoring and Inspection Plan	
Closure Plan, based upon the ensurement of the second seco	
Costate Fiair Foased upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan	
Type: Drilling Workover Emergency Cavitation P&A Permanent Dir Employee Cover Dian.	
Alternative	
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
15	ļ
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure of the	
Image: A set of the point in the box, that the documents are attached. Image: A set of the point in the box, that the documents are attached.	
X Confirmation Sampling Plan (if applicable) - based area it	
X Disposal Facility Name and Permit Number (for liquide drilling their and the state)	
X Soil Backfill and Cover Design Specifications - based upon the appropriate sections of a	
X Re-vegetation Plan - based upon the appropriate requirements of Subsection Lof 10.15.17.13 NMAC	
X Site Reclamation Plan - based upon the appropriate requirements of Subscription Cast 10.17.13 NMAC	

16 Waste Berner 17	
waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Instructions: Please identify the facility or facilities for the disposal of hands, deiling by terms of Faul-off Bins Only: (19.15.17.13.)) NMAC)
are required.	v than two facilities
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Yes (If yes, please provide the information Vessel	or future service and opperations?
Required for impacted areas which will not be used for future service and an and	and operations?
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection II of the term	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17	.13 NMAC
Site Reclamation Plan - based upon the appropraite requirements of Subsection G of 19.15.17.13 NMAC	
Sting Uriteria (Regarding on-site closure methods only: 19.15.17.10 NMAC	
certain situity criteria may require administration of compliance in the closure plan. Recommendations of acceptable source material are pr	ovided below. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19,15,17,10 NMAC for guidance,	titted to the Santa Fe Environmental Bureau offic
Ground water is less than 50 feet below the bottom of the buried waste.	
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste	
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby walks	Yes No
Ground water is more than 100 feet below the bottom of the ball	N/A
 NM Office of the State Engineer - iWATERS database search: USGS, Data shall be a state of the st	Yes No
Within 300 fort of a continuously Service State and a scale (0.505): Data obtained from nearby wells	N/A
measured from the ordinary high-water mark).	TYes TNo
- Topographic map: Visual inspection (certification) of the proposed site	
Vithin 300 feet from a permanent residence, school, hospital, institution, or church in existence at the second school scho	
Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
(inin 500) horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock waterin	, Lires Lino
- NM Office of the State Engineer - iWATERS database: Visual inspection (certification) of the presented in	8
fithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance edge	
 Written confirmation or verification from the municipality. Written 	a Ves No
ithin 500 feet of a wetland	1
· US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the pressure bio	Yes No
ithin the area overlying a subsurface mine.	
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
unin an unstable area.	
Topographic map	
thin a 100-year floodplain.	
- FEMA map	Yes No
-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the	
Siting Criterie Could a line box, that the documents are attached.	tosure plan. Please indicate,
Proof of Surface Owner Notice Level 1	
Construction/Design Disc. C.D. 117.13 NMAC	
Construction/Design Fian of Burnal Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requirements	of 19.15.17.11 NMAC
Confirmation Sampling Plan (if applicable)	
Waste Material Sampling Plan, based upon the appropriate requirements of Subsection F of 19.15.17.13 NM.	AC
Disposal Facility Name and Damis Multin and Participation of Subsection F of 19.15.17.13 NMAC	
g suppose the any many many many and remnit Number (for liquids, drilling fluids and drill outlings on in such that is	
Soil Cover Design - based upon the appropriate and the unit cuttings of in case on-site closure standard.	s cannot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	s cannot be achieved)

Thereby certify that the info	Contifications	
	Description:	
Name (Print):	Crystal Tabya	
Signature	Regulatory Technician	
a muil a bhanna		
c-mail address:	Telephone: 505-326-9837	
20		
OCD Approval: P	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachmen	t)
OCD Representative Si	Signature: Approval Date:	
Title:	OCD Permit Number:	
21 Closure Report (require	ired within 60 days of closure completion is a	
Instructions: Operators are report is required to be sub- approved closure plan bas l	re required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure rep abmitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the s been obtained and the closure activities have been activities and submitting the closure of the section of the	port. The closure ie form until an
	Closure Completion Date:	
22 Closure Method:		
Waste Excavation a	and Removal On-site Closure Method Alternative Closure Marked Thus and a	
If different from apr	pproved plan, please explain.	op systems only)
3 Josure Report Regarding	ng Wagte Demoval Closure For Closed ters Surface 75 + 11/1/	
nstructions: Please identif	ify the facility or facilities for where the liquids drilling fluids and drill cuttings was diagonal liquids the hours of the second state in the	
ere utilized.	is a subscript of the second o	e than two facilities
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Were the closed-loop syst	ystem operations and associated activities performed on or in areas that will not be used for future service and opeartions?	
Yes (If yes, please de	demonstrate complilane to the items below)	
Required for impacted ar	areas which will not be used for future service and operations;	
Site Reclamation (Ph	Photo Documentation)	
Soil Backfilling and	d Cover Installation	
Re-vegetation Applic	lication Rates and Seeding Technique	
1		
Closure Report Attack	chment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate.	by a check mark in
Closure Report Attack the box, that the documes	chment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, tents are attached.	by a check mark in
Closure Report Attact the box, that the document	ichment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, ients are attached. Notice (surface owner and division)	by a check mark in
Closure Report Attact the box, that the documen Proof of Closure No Proof of Deed Notic	achment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, tents are attached. Notice (surface owner and division) tice (required for on-site closure)	by a check mark in
Closure Report Attack the box, that the documen Proof of Closure No Proof of Deed Notic Plot Plan (for on-sit	ichment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, nents are attached. Notice (surface owner and division) tice (required for on-site closure) ite closures and temporary pits)	by a check mark in
Closure Report Attack the box, that the documen Proof of Closure No Proof of Deed Notic Plot Plan (for on-sit Confirmation Samp	nchment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, ments are attached. Notice (surface owner and division) ntice (required for on-site closure) site closures and temporary pits) upling Analytical Results (if applicable)	by a check mark in
Closure Report Attack the box, that the documen Proof of Closure No Proof of Deed Notic Plot Plan (for on-sit Confirmation Samp Waste Material Sam	nchment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, ments are attached. Notice (surface owner and division) trice (required for on-site closure) site closures and temporary pits) upling Analytical Results (if applicable) umpling Analytical Results (if applicable)	by a check mark in
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Closure Report Attack the box, that the documen Proof of Closure No Proof of Deed Notic Plot Plan (for on-sit Confirmation Samp Waste Material Sam Disposal Facility Na Soil Backfilling and Re-vegetation Appli Site Reclamation (P)	And the second s	by a check mark in
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Closure Report Attack the box, that the documen Proof of Closure No Proof of Deed Notis Plot Plan (for on-sit Confirmation Samp Waste Material Sam Disposal Facility Na Soil Backfilling and Re-vegetation Appli Site Reclamation (Plot) Con-site Closure Loc Derator Closure Certific Creby certify that the inform closure complies with all a	achment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, nents are attached. Notice (surface owner and division) stice (required for on-site closure) site closures and temporary pits) appling Analytical Results (if applicable) aampling Analytical Results (if applicable) Name and Permit Number nd Cover Installation plication Rates and Seeding Technique (Photo Documentation) pccation: Latitude:	by a check mark in 1983 belief. 1 also certify that
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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: 27N Range: 05W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) CNon-Domestic CDomestic @ 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 Water (in POD Number Tws Rng Sec q q q x Ý. Well Water Column Zone 05W 27 4 4 3 RG 81026 27N 460 186 274 27N 05W 03 2 1 1840 SJ 00199 27N 05W 04 4 4 506 246 SJ 00046 260

Record Count: 3

New Mexico Office of the State Engineer

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Tow	nship: 28	NI	Rang	e: 05	ōW	Sections	:			-			
NAD27	X:		Y:			Zone:			Sear	ch Radiu	s:		
County:	H	Basin:						Numt	er:	1	Suffix:		-
Owner Name: (Fi	rst)			(1	Last)				Non-	Domestic	۲ Dom	estic @	All
POD / Surfa	ce Data R	eport			Av	g Depth to V	Vater I	Report	3.34	Wat	er Column	Report	
			Clear	Form	n	IWATER	S Mer	IU	Help				
				W	ATER	COLUMN F	REPOR	T 08/2	20/2	008			
	quarter	s are	1=I	W 2	=NE	3=SW 4=SE	2)					•• •	
DOD Humbor	quarter	s are	b19	gges	t to	smallest Zopo	;) v		v	Depth	Depth	Water	(1n
SJ 01893	2.8N	05W	18	4 4	4	20116	~		*	390	290	100	
SJ 00047	28N	05W	28	-						465	265	200	
SJ 00036	28N	05W	28	3						303	243	60	
Pagard Count . 2													

Record Count: 3





Mines, Mills and Quarries Web Map

SAN JUAN 27-5 UNIT 85E

Unit Letter: C, Section: 05, Town: 027N, Range: 005W





SAN JUAN 27-5 UNIT 85E

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 27-5 UNIT 85E', which is located at 36.60794 degree, North latitude and 107.38198 degree, West longitude. This location is located on the Santos Peak 7.5' USGS topographic quadrangle. This location is in section 5 of Township 27 North Range 5 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 Turley, located 24.3 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 46.6 miles to the west (National Atlas). The nearest highway is US Highway 64, located 5.5 miles to the north. The location is on BLM land and is 3,334 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 368 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 1,535 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Munoz Creek and is 1,863 feet to the northeast. The nearest water body is 2,056 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 22,157 feet to the northwest. 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 8,199 feet to the southeast. The nearest wetland is a 29.6 acre Ravine located 1,819 feet to the northeast. The slope at this location is 3 degree, 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 15.8 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

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

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

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

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

General Plan:

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

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

- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



PROPERTIES TEST METHOD J30BB J36BE **J45BE** Min. Roll Typical Roll Min. Roll Typical Roll Averages Min. Roll Typical Roll Averages Averages Averages Averages Appearance Averages 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 140 lbs ASTM D 5261 (oz/yd²) 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 /bs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 lbf MD 113 lbf 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 550 MD Break % (Film Break) 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD Peak % (Scrim Break) **ASTM D 7003** 33 MD 20 MD 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 180 lbf MD Grab Tensile 218 lbf MD ASTM D 7004 180 Ibf MD 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

146 lbf MD

141 lbf DD

< 0.5

64 lbf

180° F

-70° F

MD = Machine Direction

* Dimensional Stability

Maximum Use Temperature

Minimum Use Temperature

Puncture Resistance

DD = Diagonal Directions

Trapezoid Tear

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

130 lbf MD

130 lbf DD

<1

65 lbf

180° F

-70° F

189 lbf MD

172 lbf DD

< 0.5

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

120 lbf MD

120 lbf DD

<1

50 lbf

180° F

-70° F

ASTM D 4533

ASTM D 1204

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

NOTE: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and

Sioux Falls, South Dakota

SALES OFFICE

160 lbf MD

160 lbf DD

<1

80 lbf

180° F

-70° F

193 lbf MD

191 lbf DD

< 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



PLANT LOCATION



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

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

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

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 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 the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the 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