District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources Form C-144 July 21, 2008

District II 1301 W. Grand Ave., Artesia, NM 88210 District III

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., 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-L	oop Syst	em, Be	low-Grade	Tank	, or
Proposed A	lternative	Method	Permit	or Closur	e Plan	Application

Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Please submit one	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative req

Instructions: P quest

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

	Resources Oil & Gas Cor	npany, LP	ATTENDED	OGRID#: 1453	38
ddress: PO Box 428	9, Farmington, NM 8749	99			The same of the sa
acility or well name:	SAN JUAN 32-9 UNIT 3	7A			AND THE RESERVE
API Number:	3004529311		OCD Permit Nu	mber:	
/L or Qtr/Qtr:	Section: 32	Township: 32	N Range:	9W County:	San Juan
enter of Proposed Des	ign: Latitude:	36.93843°N	Longitude:	-107.79849°W	NAD: X 1927 198
urface Owner:	Federal X State	Private [Tribal Trust or In	dian Allotment	
Dita Calcastian F	-C -610 15 17 11 NIMAC		11/2 31.49		37. 73. 4
	or G of 19.15.17.11 NMAC				
_	lling Workover	P&A			
			mil LLDPE	☐ HDPE ☐ PVC ☐	Other
String-Reinforced	med Emertype. 1	mickiess	IIII LEEDIE	_ nbrervc_	Other
	atted C Ferror C (Out		III Disseries	. W .
Liner Seams: W	elded Factory (Other	Volume:	bbi Dimension:	s Lx Wx D
T 60 : [750.	w well Workey	or or Drilling (Applie	s to activities which rec	uire prior approval of a permit or
Type of Operation: Drying Pad Lined Unli Liner Seams: We	Above Ground Steel Tanks	notice o	of intent) s Other		
Drying Pad Lined Unli	Above Ground Steel Tanks	notice of Binsticknessn	of intent) s Other		
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Drying Pad Lined Unli Liner Seams: We X Below-grade tank Volume: Tank Construction mate	Above Ground Steel Tanks ned Liner type: The ded Factory Ot Subsection I of 19.15.17.1 20 bbl Type rial: ent with leak detection	notice of s Haul-off Binstickness nher I NMAC of fluid: Product Metal	of intent) S Other LLDPE [HDPE PVD	Other
Drying Pad Lined Unli Liner Seams: We X Below-grade tank Volume: Tank Construction mate Secondary containment	Above Ground Steel Tanks ned Liner type: The dided Factory Ot Subsection I of 19.15.17.1 20 bbl Type rial: ent with leak detection nd liner Visible	notice of s Haul-off Binstickness nher I NMAC of fluid: Product Metal X Visible sidewalls sidewalls only	of intent) S Other LLDPE ed Water Jiner, 6-inch lift and	HDPE PVD	Other



Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	institution or church)
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	consideration of approval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA
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	Yes No
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No
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. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes XNo
Within a 100-year floodplain - FEMA map	Yes XNo

	Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC pplication. Please indicate, by a check mark in the box, that the documents are attached.
	on the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
	- based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
	on the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements	
X Operating and Maintenance Plan - based upon the appr	
X Closure Plan (Please complete Boxes 14 through 18, if 19.15.17.9 NMAC and 19.15.17.13 NMAC	f applicable) - based upon the appropriate requirements of Subsection C of
Previously Approved Design (attach copy of design)	API or Permit
12	
Closed-loop Systems Permit Application Attachment Che	
	optication. Please indicate, by a check mark in the box, that the documents are attached, sure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
	n-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements	of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appr	ropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if NMAC and 19.15.17.13 NMAC	applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
Previously Approved Design (attach copy of design)	API
Previously Approved Operating and Maintenance Plan	API
ermanent Pits Permit Application Checklist: Subsection	P of 10 15 17 0 NMAC
	application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements o	
	on the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment	
Certified Engineering Design Plans - based upon the ap	
	upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate rec	quirements of 19.15.17.11 NMAC
	ased upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and In	stallation Plan
Operating and Maintenance Plan - based upon the appr	opriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based up	on the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Preventi	ion Plan
Emergency Response Plan	
Oil Field Waste Stream Characterization	
Monitoring and Inspection Plan	
Erosion Control Plan	
Closure Plan - based upon the appropriate requirements	s of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
roposed Closure: 19.15.17.13 NMAC	
structions: Please complete the applicable boxes, Boxes 14 throi	
pe: Drilling Workover Emergency Cavitat	ion P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative	
oposed Closure Method: X Waste Excavation and Remova	(Below-Grade Tank)
Waste Removal (Closed-loop sy	ystems only)
On-site Closure Method (only f	for temporary pits and closed-loop systems)
In-place Burial	On-site Trench
	exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	The state of the s
aste Excavation and Removal Closure Plan Checklist: (1	9.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plants:
ease indicate, by a check mark in the box, that the documents are	e attached.
X Protocols and Procedures - based upon the appropriate r	requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon	n the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids	
	pon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate require	
X Site Reclamation Plan - based upon the appropriate requ	
- in the state of	The state of the s

16 E Cl. 11 C That Hall About Co 150	Tools of Head of Piers Only (10 15 17 12 D MAC)	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	g fluids and drill cuttings. Use attachment if more than two fac	cilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Part 1 Part 111 Part 1	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No		
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based upon the appropriate requirements of Subset No. 10 Site Reclamation Plan - based up	iate requirements of Subsection H of 19.15.17.13 NMAC ection I of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided below or may be considered an exception which must be submitted to the S	
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
 NM Office of the State Engineer - iWATERS database search; USGS: Data obt 	rained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried wast	e	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obta	ained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obta	ained from nearby wells	□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant from the ordinary high-water mark).	icant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	5. d ()	
Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site; Aerial photo: satellite image		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less th purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis - NM Office of the State Engineer - iWATERS database; Visual inspection (certifi Within incorporated municipal boundaries or within a defined municipal fresh water w	stence at the time of the initial application. ication) of the proposed site	Yes No
 pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obt 	tained from the municipality	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual insp	pection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	ALCOHOL STORY	Yes No
- Written confirantion or verification or map from the NM EMNRD-Mining and N	Mineral Division	П. П.
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & M Topographic map	lineral Resources; USGS; NM Geological Society;	∐Yes ∐No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate		
Proof of Surface Owner Notice - based upon the appropriate requirement	nts of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dryi		15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of		
Confirmation Sampling Plan (if applicable) - based upon the appropriate		
Waste Material Sampling Plan - based upon the appropriate requiremen		at be a blood b
Disposal Facility Name and Permit Number (for liquids, drilling fluids a		ot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Plan -		
Site Reclamation Plan - based upon the appropriate requirements of Sub		

Form C-144 Oil Conservation Division Page 4 of 5

Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Catal Talour	Date:	12/22/2008
e-mail address:	crystal tatoya@conocophillips.com	Telephone:	505-326-9837
OCD Approval: Per	mit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sign	nature:		Approval Date:
Title:	T. Gal	OCD Permi	it Number:
21			
Closure Report (required Instructions: Operators are re report is required to be submit		rior to implementing any closur pletion of the closure activities. een completed.	re activities and submitting the closure report. The closure Please do not complete this section of the form until an Completion Date:
2		THE OWNER AS TO BE	
Closure Method: Waste Excavation and	d Removal On-site Closure Metho	d Alternative Closure M	Method Waste Removal (Closed-loop systems only)
3	MS-NEW JAN	11-16-12 (1970)	The state of the s
losure Report Regarding Vastructions: Please identify	Waste Removal Closure For Closed-loop Sy the facility or facilities for where the liquids.	stems That Utilize Above Gro drilling fluids and drill cutting	und Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than two facilities
ere utilized.			
Disposal Facility Name:			Permit Number:
Disposal Facility Name:		Disposal Facility P	
	em operations and associated activities perfor		be used for future service and opeartions?
	monstrate complilane to the items below)	No	
Required for impacted are Site Reclamation (Pho	as which will not be used for future service are	nd operations:	
Soil Backfilling and C			
=	ation Rates and Seeding Technique		
i ne regenation repaire	The same seeming teenings		
		following items must be attack	hed to the closure report. Please indicate, by a check mark in
	stice (surface owner and division)		
	re (required for on-site closure)		
=	e closures and temporary pits)		
	ling Analytical Results (if applicable)		
=	pling Analytical Results (if applicable)		
=	me and Permit Number		
Soil Backfilling and			
	cation Rates and Seeding Technique		
	hoto Documentation)		
On-site Closure Loca		Longitude:	NAD 1927 1983
On-site Closure Loca	ation. Latitude.	Longitude:	NAD
perator Closure Certific hereby certify that the inform			nd complete to the best of my knowledge and belief. I also certify to
ame (Print):	The state of the s	Title:	
(1 1116).	× 5 - 4	Title.	
gnature:	Late -	Date:	
		Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 32N	Range: 09W Section	ns:	
NAD27 X:	Y: Zone	: Search	Radius:
County: Bas	in:	Number:	Suffix:
Owner Name: (First)	(Last)	O Non-Don	nestic ODomestic OAll
POD / Surface Data Repo	Avg Depth to	Water Report	Water Column Report
	Clear Form iWATE	ERS Menu Help	
	1- 1- 1-		

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 feet) POD Number Tws Rng Sec q q q Well Zone X Y Water Column 32N 09W 22 3 3 3 SJ 03131 843 580 263

Record Count: 1

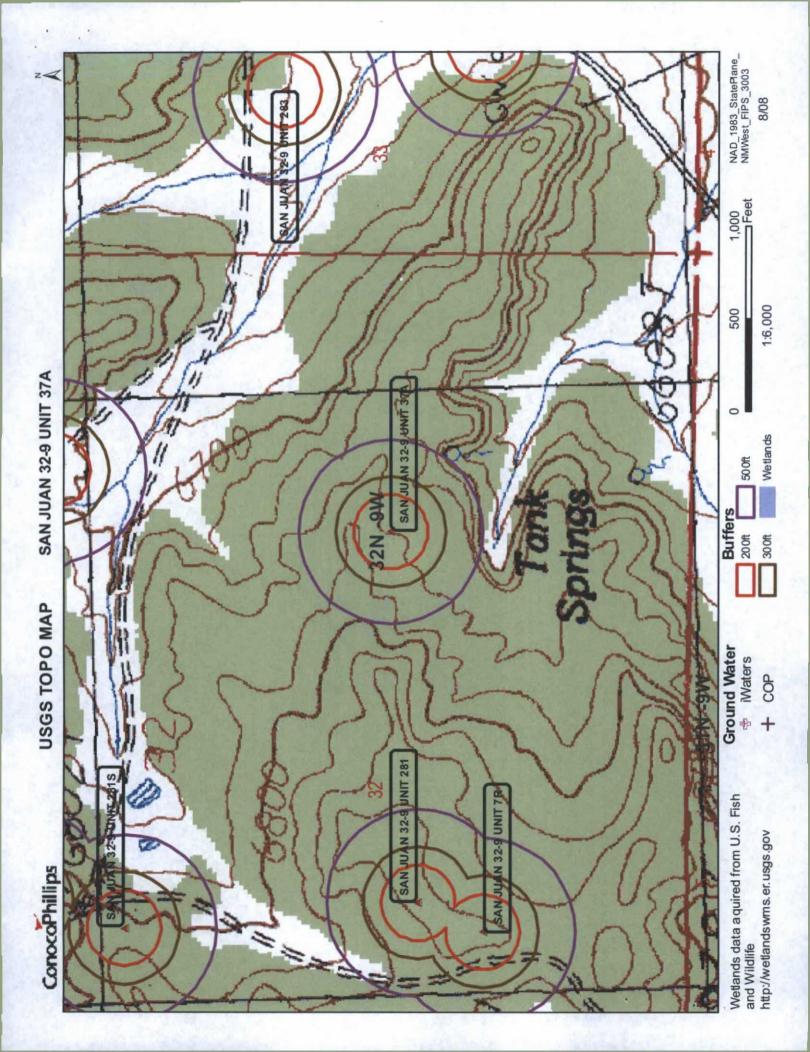
New Mexico Office of the State Engineer POD Reports and Downloads

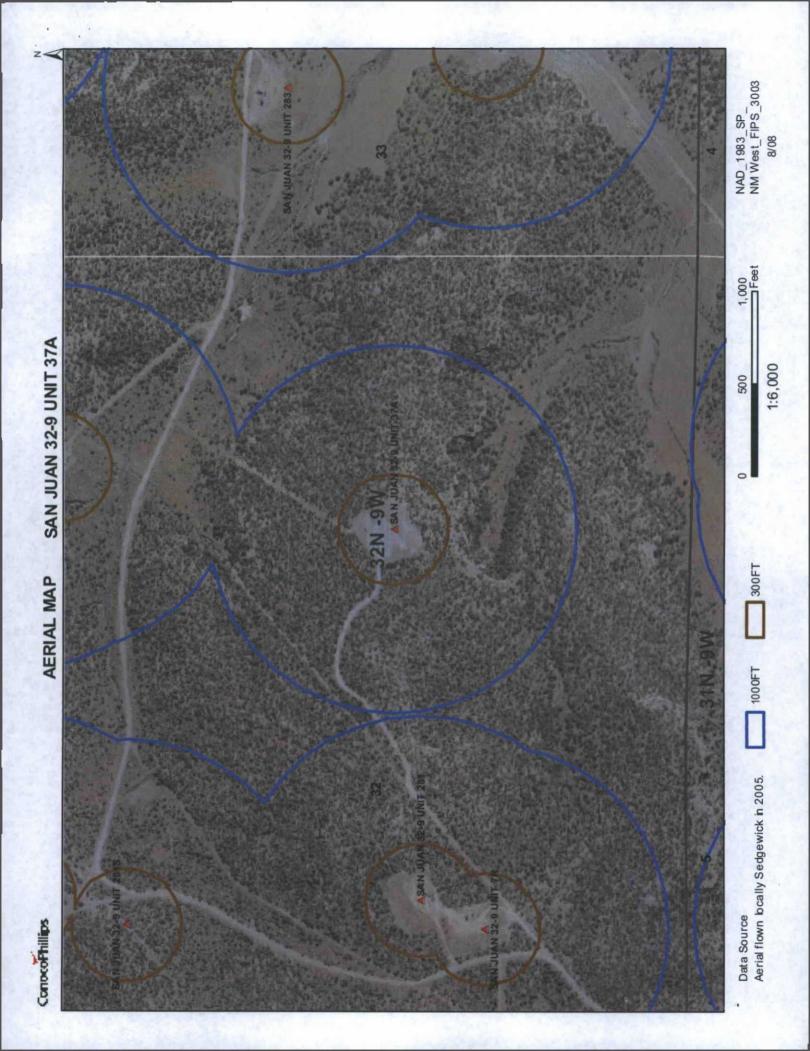
Township:	31N Range:	09W Sections:	
NAD27 X:	Y:	Zone:	Search Radius:
County:	Basin:		Number: Suffix:
Owner Name: (First)		(Last)	O Non-Domestic O Domestic O All
POD / Surface Data	Report	Avg Depth to Water R	eport Water Column Report
	Clear Fo	orm iWATERS Menu	u Help

WATER COLUMN REPORT 08/20/2008

	(quarter										Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	q	g	Zone	the same	x	Y	Well	Water	Column		
SJ 00014	31N	09W	10	3							462	312	150		
SJ 00013	31N	09W	10	3							458				
SJ 03769 POD1	31N	09W	14	2	3	2		2748	332	2147145	485	390	95		
SJ 00023	31N	09W	17	3							550	200	350		
SJ 00015	31N	09W	19								610				
SJ 00022	31N	09W	20	2							202	120	82		
SJ 00052	31N	09W	20	3							510			,	
SJ 00029	31N	09W	21	4							178				
SJ 00016	31N	09W	27	4	3	3					118				**

Record Count: 9





Mines, Mills and Quarries Web Map

SAN JUAN 32-9 UNIT 37A

Unit Letter: J, Section: 32, Town: 032N, Range: 009W

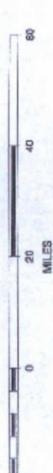


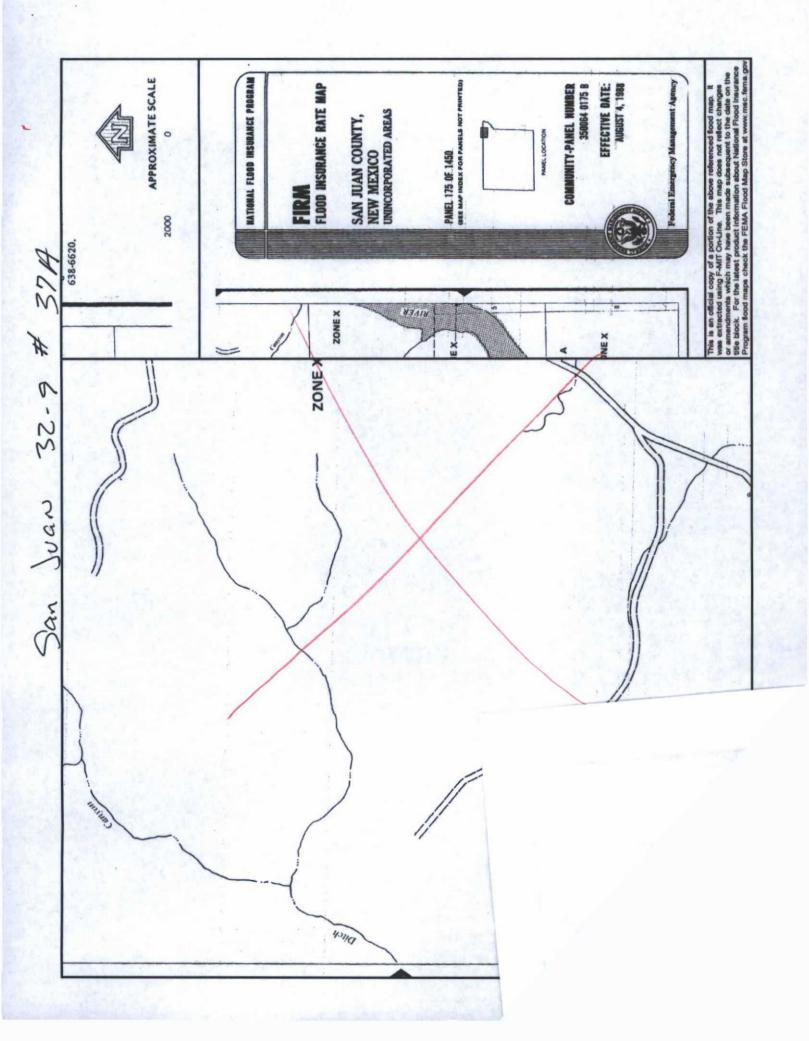
Cities - major ansportation

Interstate Highways Major Roads Railways









SAN JUAN 32-9 UNIT 37A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 32-9 UNIT 37A', which is located at 36.93843 degrees North latitude and 107.79849 degrees West longitude. This location is located on the Mount Nebo 7.5' USGS topographic quadrangle. This location is in section 32 of Township 32 North Range 9 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 5.0 miles to the west. The nearest large town (population greater than 10,000) is Durango, located 23.6 miles to the north (National Atlas). The nearest highway is US Highway 550, located 4.9 miles to the west. The location is on State land and is 1,335 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Subbasin. This location is located 2056 meters or 6743 feet above sea level and receives 16 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 495 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 588 feet to the south and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 11,369 feet to the northeast. The nearest water body is 2,024 feet to the northwest. It is classified by the USGS as an intermittent lake and is 0.4 acres in size. The nearest spring is 411 feet to the southeast. 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 11,534 feet to the northeast. There is no wetland data available for this area. The slope at this location is 2 degrees to the southeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Travessilla-Weska-Rock outcrop complex, moderately steep' 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 5.5 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

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

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

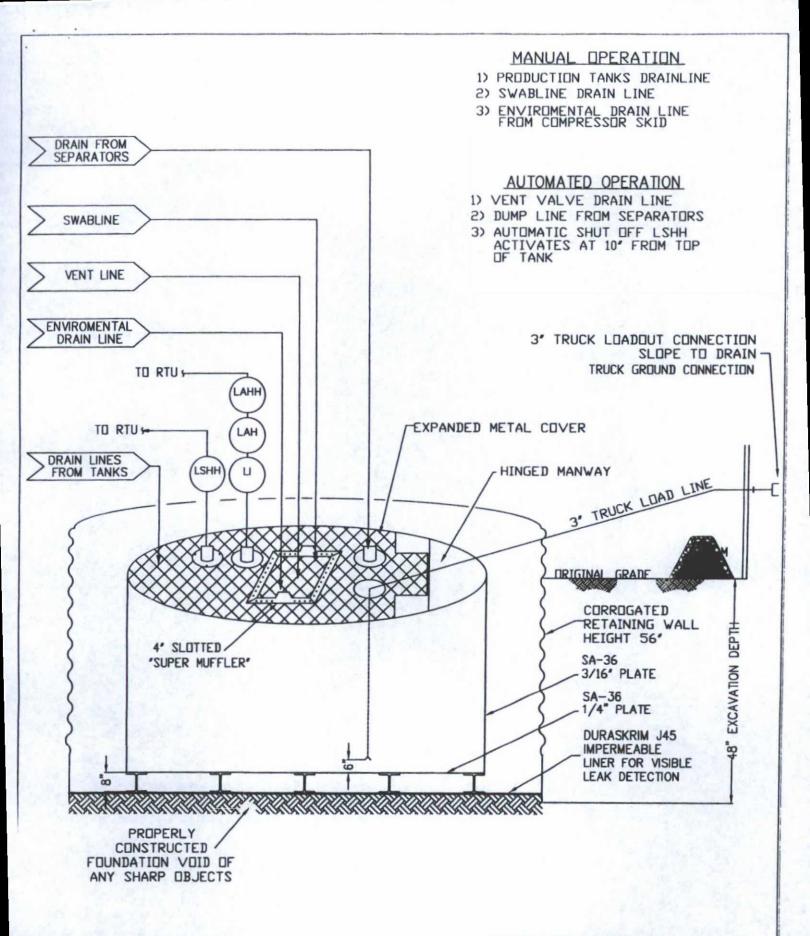
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

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



ConocoPhillips

San Juan Business Unit

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

DURA-SKRIM®

J30, J36 a J45

PROPERTIES	TEST METHOD	J3	0BB	J31	8 8	J45BB		
	7	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance		Black	k/Black	Black	/Black	Black	/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Extr	usion laminated	with encapsula	ited tri-direction	al scrim reinford	cement	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature	12	180° F						
Minimum Use Temperature	4-1	-70° F						

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: 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 discisions all liability for resulting loss or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

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

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

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

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

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY 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 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.
- 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.
- 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:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 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, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 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

OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19.15.17.9 Permit application	
Signed C-144 (Page 5 of C-144)	
Site Specific Hydrogeology	
19.15.17.10 Siting requirements	
New Mexico Office of State Engineer attachment	
USGS TOPO map	
Aerial Map	
Mines, Mills and Quarries Web Map	
FIRM map (flood insurance rate map from Federal Emergency Managemen	t Agency)
19.15.17.11 Design Plan Contents	
Below Grade Tank Design and Construction Plan.	
19.15.17.12 Operating and Maintenance Plan	
Below Grade Tank Operating and Maintenance Plan	
19.15.17.13 Closure Plan	
Below Grade Tank Closure Plan	
Requirements:	
Registration Date: 021291 2016	