1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

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-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

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

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

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

API Number: 3004521913 OCD Permit Number:  U/L or Qtr/Qtr:	Address: PO Box 4289, Farmington, NM 87499	ID#: 14538
API Number: 3004521913 OCD Permit Number:    OL or Qtr/Qtr:		
center of Proposed Design: Latitude: 36.80888°N Longitude: -107.67679°W NAD: X 1927 1982  urface Owner: X Federal State Private Tribal Trust or Indian Allotment    Pit: Subsection F or G of 19.15.17.11 NMAC    Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other   String-Reinforced Liner Seams: Welded Factory Other Wolume: bbl Dimensions L x W x D		
Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: Drilling Workover    Permanent   Emergency   Cavitation   P&A     Lined   Unlined   Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     String-Reinforced   Liner Seams: Welded   Factory   Other   Volume: bbl   Dimensions L   x W   x D	Center of Proposed Design: Latitude: 36.80888°N Longitude: -10	7.67679°W NAD: X 1927 1
String-Reinforced Liner Seams:   Welded   Factory   Other   Volume:   bbl   Dimensions L   x W   x D      Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)    Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined   Liner type: Thickness   mil   LLDPE   HDPE   PVD   Other     Liner Seams:   Welded   Factory   Other      X   Below-grade tank: Subsection I of 19.15.17.11 NMAC    Volume:   120   bbl   Type of fluid:   Produced Water     Tank Construction material:   Metal     Secondary containment with leak detection   X   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other	Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: Drilling Workover  Permanent Emergency Cavitation P&A	PVC Other
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other  Liner Seams: Welded Factory Other     Welded Factory Other	String-Reinforced	
Drying Pad	Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activit	
Volume: 120 bbl Type of fluid: Produced Water  Tank Construction material: Metal  Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other	Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE	PVD Other
Tank Construction material:    Metal	X Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other	Volume: 120 bbl Type of fluid: Produced Water	
Visible sidewalls and liner	Tank Construction material: Metal	
Liner Type: Thickness mil HDPE PVC X Other Unspecified		overflow shut-off

			ion Attachment Checklist: Subsection B of 19.15.17.9 NMAC indicate, by a check mark in the box, that the documents are attached.
			its of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
		*************	equirements of Paragraph (2) of Subsection B of 19.15.17.9
		•	requirements of 19.15.17.10 NMAC
=	•		
=	I upon the appropriate requirements		
= .	ntenance Plan - based upon the appr	ropriate requiremen	nts of 19.15.17.12 NMAC
	e complete Boxes 14 through 18, if and 19.15.17.13 NMAC	applicable) - based	d upon the appropriate requirements of Subsection C of
Previously Approved D	Design (attach copy of design)	API	or Permit
Siting Criteria Com	ogeologic Data (only for on-site closs apliance Demonstrations (only for ond upon the appropriate requirements intenance Plan - based upon the appropriate complete Boxes 14 through 18, if 17.13 NMAC design (attach copy of design) operating and Maintenance Plan Application Checklist: Subsection Illowing items must be attached to the complete Boxes and International	pplication. Please indicate in based upon to in-site closure) - based upon to in-site closure) - based of 19.15.17.11 NM ropriate requirement applicable) - based API API — API — API — application. Please in application. Please in application. Please in application. Please in application.	dicate, by a check mark in the box, that the documents are attached. the requirements of Paragraph (3) of Subsection B of 19.15.17.9 used upon the appropriate requirements of 19.15.17.10 NMAC MAC uts of 19.15.17.12 NMAC d upon the appropriate requirements of Subsection C of 19.15.17.9
Dike Protection and Leak Detection Des Liner Specifications Quality Control/Qu Operating and Mail Freeboard and Over Nuisance or Hazard Emergency Respon Oil Field Waste Str Monitoring and Ins Erosion Control Pla	ng Design Plans - based upon the ap I Structural Integrity Design: based ign - based upon the appropriate rec and Compatibility Assessment - ba ality Assurance Construction and In attenance Plan - based upon the appro- tropping Prevention Plan - based up lous Odors, including H2S, Prevention se Plan earn Characterization pection Plan	upon the appropria quirements of 19.13 ased upon the appro- stallation Plan opriate requiremen on the appropriate ion Plan	ate requirements of 19.15.17.11 NMAC  15.17.11 NMAC  ropriate requirements of 19.15.17.11 NMAC
4			
roposed Closure: 19.15			
ype: Drilling W	te the applicable boxes, Boxes 14 throughorkover Emergency Cavitat		o the proposed closure plan.  Permanent Pit X Below-grade Tank Closed-loop System
Alternative			
roposed Closure Method:	X Waste Excavation and Remova		Grade Tank)
	Waste Removal (Closed-loop s		
	On-site Closure Method (only f		
	In-place Burial	On-site Trench	
	Alternative Closure Method (E	xceptions must be s	submitted to the Santa Fe Environmental Bureau for consideration)
	emoval Closure Plan Checklist: (1		Instructions: Each of the following items must be attached to the closure plan
	dures - based upon the appropriate		0.15.17.13.NMAC
			requirements of Subsection F of 19.15.17.13 NMAC
	ame and Permit Number (for liquids	The second secon	
	A CONTRACTOR OF THE PARTY OF TH	100	te requirements of Subsection H of 19.15.17.13 NMAC
=			
=	- based upon the appropriate require		
X Site Reclamation Pl	an - based upon the appropriate requ	uirements of Subse	ection G of 19.15.17.13 NMAC

Form C-144

16		
Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions: Please identify the facility or facilities for the disposal of liquids, a are required.		facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:		
Will any of the proposed closed-loop system operations and associated at Yes (If yes, please provide the information No		service and operations?
Required for impacted areas which will not be used for future service and open  Soil Backfill and Cover Design Specification - based upon the ap  Re-vegetation Plan - based upon the appropriate requirements of  Site Reclamation Plan - based upon the appropriate requirements	propriate requirements of Subsection H of 19.15.17.13 NMA Subsection I of 19.15.17.13 NMAC	c
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 Instructions: Each siting criteria requires a demonstration of compliance in the closure certain siting criteria may require administrative approval from the appropriate distric for consideration of approval. Justifications and/or demonstrations of equivalency are	plan. Recommendations of acceptable source material are provided bel et office or may be considered an exception which must be submitted to the	
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: Da	ata obtained from nearby wells	□N/A
Ground water is between 50 and 100 feet below the bottom of the buried	waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Da		□N/A
Ground water is more than 100 feet below the bottom of the buried wast		☐Yes ☐No
NM Office of the State Engineer - iWATERS database search; USGS; Da		I IN/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark).	significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed site		
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or chu</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; satellite</li> </ul>		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that purposes, or within 1000 horizontal fee of any other fresh water well or spring, and office of the State Engineer - iWATERS database; Visual inspection	in existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh v pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written appro-		Yes No
Within 500 feet of a wetland		Yes No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visu	nal inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining	g and Mineral Division	
Within an unstable area.	4.45	Yes No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geolog Topographic map</li> </ul>	y & Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain FEMA map		Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions:	Each of the following items must bee attached to the closus	re plan. Please indicate,
by a check mark in the box, that the documents are attached.		
Siting Criteria Compliance Demonstrations - based upon the appr		
Proof of Surface Owner Notice - based upon the appropriate requi		
Construction/Design Plan of Burial Trench (if applicable) based u		01/17/11/04/15
Construction/Design Plan of Temporary Pit (for in place burial of		9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirement		
Confirmation Sampling Plan (if applicable) - based upon the appro		
Waste Material Sampling Plan - based upon the appropriate requir		and be achieved.
Disposal Facility Name and Permit Number (for liquids, drilling fi		nnot be achieved)
Soil Cover Design - based upon the appropriate requirements of S  Re-vegetation Plan - based upon the appropriate requirements of S		
Site Reclamation Plan - based upon the appropriate requirements of		

Operator Application Cartification		
Operator Application Certification:  Thereby certify that the information submitted with this application is true, accurately.	trate and complete to the h	pest of my knowledge and belief
	Title:	Regulatory Technician
A A Tololio		
Signature: World (4)	Date:	12/22/2008
e-mail address: crystal. afoya@conocophillips.com	Telephone:	505-326-9837
20		
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
		Approvai Date:
Title:	OCD Permi	it Number:
21		
Closure Report (required within 60 days of closure completion): Subs		
Instructions: Operators are required to obtain an approved closure plan prior to		
report is required to be submitted to the division within 60 days of the completic approved closure plan has been obtained and the closure activities have been c		. Please do not complete this section of the form until an
approved closure plan has been obtained and the closure activities have been co	_	
	Closure	Completion Date:
22		
Closure Method:		
Waste Excavation and Removal On-site Closure Method	Alternative Closure N	Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.		
23		
Closure Report Regarding Waste Removal Closure For Closed-loop System		
Instructions: Please identify the facility or facilities for where the liquids, drill were utilized.	ung junas ana arm cumn	gs were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility I	Permit Number:
Disposal Facility Name:	Disposal Facility F	
Were the closed-loop system operations and associated activities performed		
Yes (If yes, please demonstrate complilane to the items below)	No	
Required for impacted areas which will not be used for future service and op	_	
Site Reclamation (Photo Documentation)	verations.	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
24		
Closure Report Attachment Checklist: Instructions: Each of the following the box, that the documents are attached.	owing items must be attac	thed to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Confirmation Sampling Analytical Results (if applicable)		
Waste Material Sampling Analytical Results (if applicable)		
Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude:	Longitude:	NAD 1927 1983
25		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure	report is ture, accurate a	nd complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions spe		
Maria (Bring)	Tries	
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

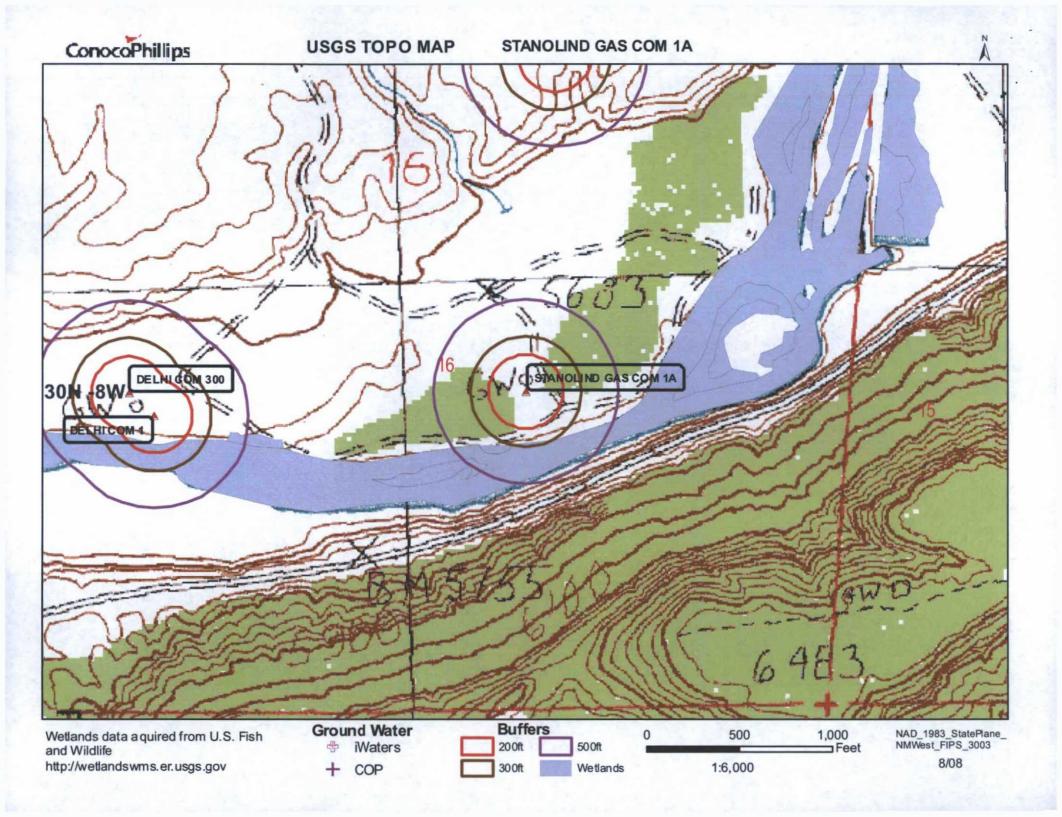
### New Mexico Office of the State Engineer POD Reports and Downloads

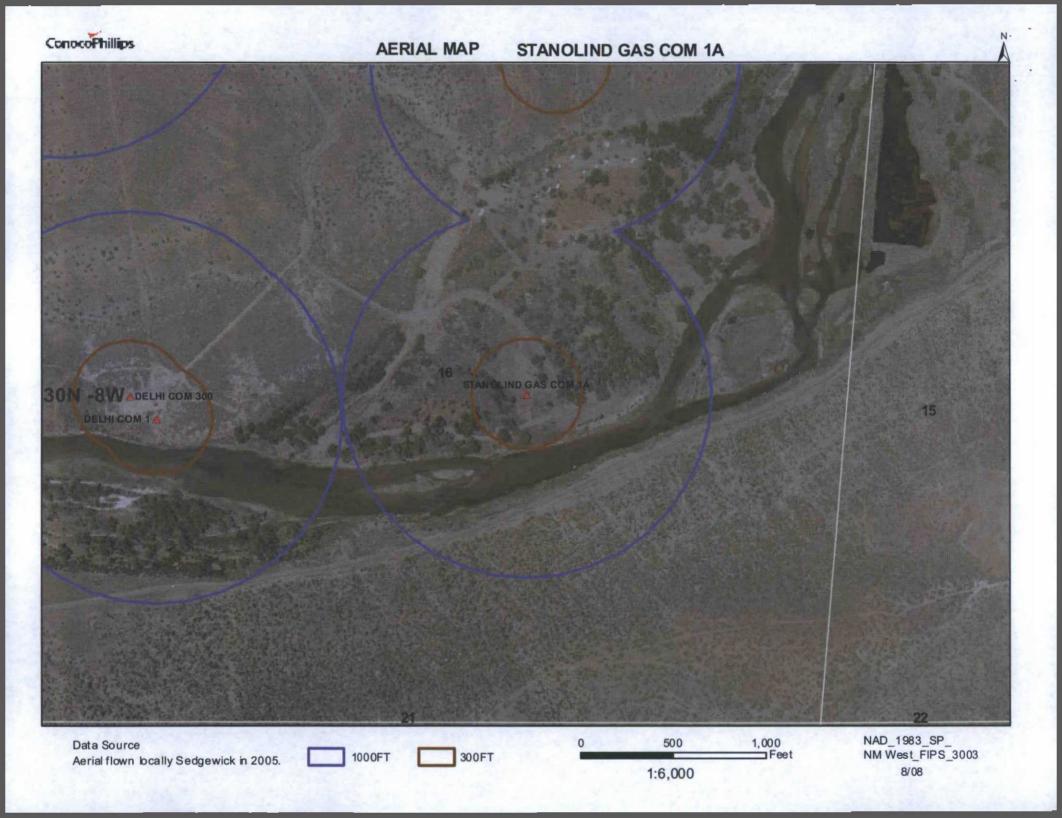
Township: 30N Range: 08W Sections: Y: NAD27 X: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All Avg Depth to Water Report POD / Surface Data Report Water Column Report Clear Form iWATERS Menu Help

#### WATER COLUMN REPORT 01/16/2009

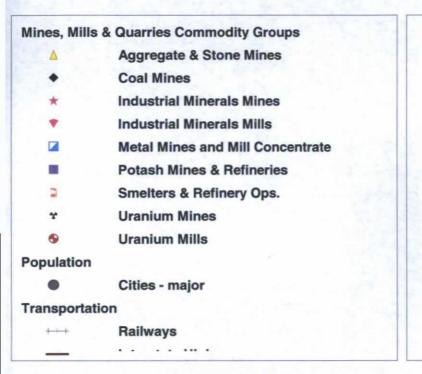
quarter	s are	e 1=	NW	2=	NE	3=SW 4=SE	)						
quarter	s are	e bi	gge	est	to	smallest	)			Depth	Depth	Water	(in
Tws	Rng	Sec	đ	g	g	Zone	x		Y	Well	Water	Column	
30N	08W	15	1							19	10	9	
30N	08W	17								25	10	15	
30N	08W	17	4	1	4					20	5	15	
30N	08W	17	4	3	1					23	12	11	
30N	08W	17	4	3	1					18	10	8	
30N	08W	17	4	4 0	b.					29	19	10	
30N	08W	17	4	4						25	14	11	
30N	08W	17	4	4	1					28	15	13	
30N	08W	19	2	2						15	10	5	
30N	08W	20	1	3						17	11	6	
30N	08W	20	2							40	27	13	
30N	08W	20	2	1						20	8	12	
30N	08W	20	2	1						115			
30N	08W	27	2	2	3					120	40	80	
30N	08W	27	2	2	4					150	80	70	
30N	08W	27	2	4	2					120	40	80	
30N	08W	27	3							535			
30N	08W	30	1	2	2					40	16	24	
30N	08W	30	1	4	1					21	10	11	
30N	08W	30	1	4	2						21		
	quarter Tws 30N	Tws Rng	Tws         Rng         Sec           30N         08W         15           30N         08W         17           30N         08W         19           30N         08W         20           30N         08W         20           30N         08W         20           30N         08W         20           30N         08W         27           30N         08W         30           30N         08W         30	Tws         Rng         Sec         q           30N         08W         15         1           30N         08W         17         4           30N         08W         19         2           30N         08W         20         1           30N         08W         20         2           30N         08W         20         2           30N         08W         20         2           30N         08W         27         2           30N         0	Tws Rng Sec q q  30N 08W 15 1  30N 08W 17  30N 08W 17 4 1  30N 08W 17 4 3  30N 08W 17 4 3  30N 08W 17 4 4  30N 08W 20 1 3  30N 08W 20 2 1  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08W 17 4 1 4  30N 08W 17 4 3 1  30N 08W 17 4 3 1  30N 08W 17 4 4 4  30N 08W 17 4 4 1  30N 08W 19 2 2  30N 08W 20 1 3  30N 08W 20 2 1  30N 08W 20 2 1  30N 08W 20 2 1  30N 08W 27 2 2 3  30N 08W 27 2 2 4  30N 08W 27 3 2  30N 08W 30 1 2 2  30N 08W 30 1 4 1	Tws Rng Sec q q q Zone X Y  30N 08W 15 1  30N 08W 17 4 1 4  30N 08W 17 4 3 1  30N 08W 17 4 3 1  30N 08W 17 4 4  30N 08W 20 1 3  30N 08W 20 2 1  30N 08W 20 2 1  30N 08W 20 2 1  30N 08W 27 2 2 4  30N 08W 27 2 2 4  30N 08W 27 3 3  30N 08W 30 1 2 2  30N 08W 30 1 4 1	Tws         Rng         Sec         q         q         Q         Zone         X         Y         Well           30N         08W         15         1         19           30N         08W         17         4         1         4           30N         08W         17         4         3         1         20           30N         08W         17         4         3         1         23           30N         08W         17         4         4         29           30N         08W         17         4         4         29           30N         08W         17         4         4         1         28           30N         08W         17         4         4         1         28           30N         08W         17         4         4         1         28           30N         08W         20         1         3         17           30N         08W         20         2         40           30N         08W         20         2         1         15           30N         08W         27         2         <	Tws         Rng         Sec         q         q         Zone         X         Y         Well         Water           30N         08W         15         1         19         10           30N         08W         17         4         1         4         20         5           30N         08W         17         4         3         1         23         12           30N         08W         17         4         3         1         23         12           30N         08W         17         4         3         1         23         12           30N         08W         17         4         3         1         29         19           30N         08W         17         4         4         1         29         19           30N         08W         17         4         4         1         28         15           30N         08W         17         4         4         1         28         15           30N         08W         20         1         3         17         11           30N         08W         20         2	Quarters         are         biggest         to         smallest)         Depth         Depth         Water         Column           30N         08W         15         1         19         10         9           30N         08W         17         4         1         4         20         5         15           30N         08W         17         4         3         1         23         12         11           30N         08W         17         4         3         1         23         12         11           30N         08W         17         4         3         1         23         12         11           30N         08W         17         4         4         29         19         10           30N         08W         17         4         4         1         25         14         11           30N         08W         17         4         4         1         28         15         13           30N         08W         17         4         4         1         28         15         13           30N         08W         20         1

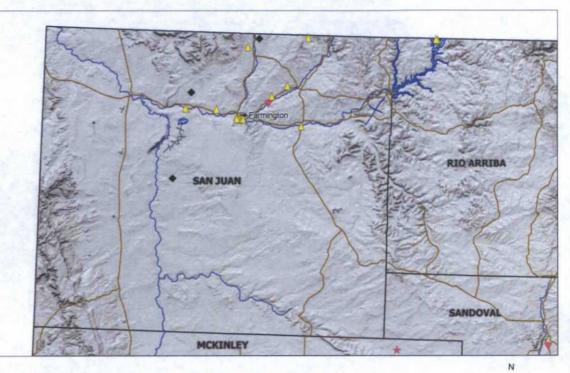
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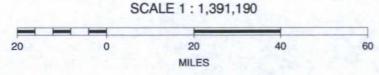




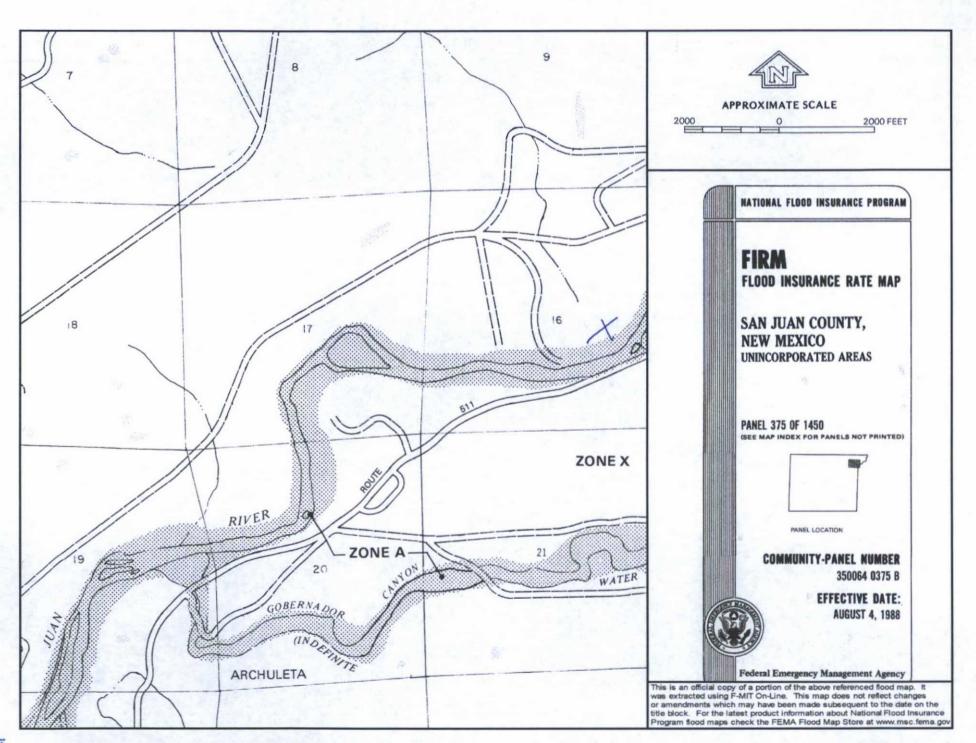
### MINES, MILLS AND QUARRIES WEB MAP/STANOLIND GAS COM 1A











#### STANOLIND GAS COM 1A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'STANOLIND GAS COM 1A', which is located at 36.80888 degrees North latitude and 107.67679 degrees West longitude. This location is located on the Archuleta 7.5' USGS topographic quadrangle. This location is in section 16 of Township 30 North Range 8 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 Turley, located 7.1 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 29.8 miles to the west (National Atlas). The nearest highway is State Highway 511, located 0.1 miles to the southeast. The location is on BLM land and is 1,321 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1742 meters or 5713 feet above sea level and receives 13 inches of rain each year. The vegetation at this location is classified as Rocky Mountain Lower Montane Riparian Woodland and Shrubland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is -58 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is named San Juan River and is 325 feet to the southeast and is classified by the USGS as a perennial stream. The nearest perrenial stream is named San Juan River and is 325 feet to the southeast. The nearest water body is 1,884 feet to the northeast. It is classified by the USGS as a perennial lake and is 4.4 acres in size. The nearest spring is 10,140 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2,212 feet to the west. The nearest wetland is a 274.1 acre Ravine located 242 feet to the southeast. The slope at this location is 0 degrees to the east 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 'Youngston clay loam' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 16.0 miles to the northwest 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 aguifers. 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.

### MANUAL OPERATION 1) PRODUCTION TANKS DRAINLINE 2) SWABLINE DRAIN LINE 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID DRAIN FROM SEPARATORS AUTOMATED OPERATION 1) VENT VALVE DRAIN LINE 2) DUMP LINE FROM SEPARATORS SWABLINE 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10° FROM TOP TANK VENT LINE ENVIROMENTAL 3' TRUCK LUADOUT CONNECTION DRAIN LINE SLOPE TO DRAIN TRUCK GROUND CONNECTION TO RTU + EXPANDED METAL COVER TO RTU -DRAIN LINES FROM TANKS LSHH ш HINGED MANWAY 3° TRUCK LUAD LINE DRIGINAL GRADE CORROGATED RETAINING WALL HEIGHT 56' 4" SLOTTED SA-36 "SUPER MUFFLER" 3/16' PLATE SA-36 1/4" PLATE **DURASKRIM J45 IMPERMEABLE** LINER FOR VISIBLE 9 LEAK DETECTION PROPERLY CONSTRUCTED FOUNDATION VOID OF ANY SHARP DBJECTS

### 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®

# 130, 136 & 145

PROPERTIES	TEST METHOD	, J3	OBE'	J31	68 <b>6</b>	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance		Blac	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 reinfor	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 ME 105 lbf DD	
1" Tensile Elongation @	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 Teat	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-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 comained information or recommendations and disclaims all Liberty 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

08/06

### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S. and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. 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 Management 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: 3/25/0016