	State of New M			Form C-144
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natu	_		July 21, 2008
District II 1301 W. Grand Ave., Artesia, NM 88210 District III	Department Oil Conservation I 1220 South St. Fra	Division tan	temporary pits, closed-loop sytems, a ks, submit to the appropriate NMOCD E	-
District II 1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8	87505 For	permanent pits and exceptions submi ironmental Bureau office and provide a	
1220 S. St. Francis Dr., Santa Fe, NM 87505		app	ropriate NMOCD District Office.	
	Pit, Closed-Loop System, I	Below-Grade T	ank, or	
<u>Propc</u>	osed Alternative Method Perm	<u>nit or Closure P</u>	lan Application	
Type of action:	X Permit of a pit, closed-loop system	n, below-grade tank,	or proposed alternative method	l
	Closure of a pit, closed-loop syste	em, below-grade tank	, or proposed alternative metho	d
	Modification to an existing permi	t		
	Closure plan only submitted for a		or non-permitted pit, closed-loc	op system,
	below-grade tank, or proposed alt			
	application (Form C-144) per individu		-	-
	l of this request does not relieve the operator of liabili elieve the operator of its responsibility to comply with			
1 Operator: ConocoDhilling Commo		00	DID#• \$17917	
Operator: <u>ConocoPhillips Compa</u> Address: <b>PO Box 4289, Farming</b>			RID#: <u>217817</u>	
Facility or well name: SAN JUAN				· · · · · ·
				;;
API Number:		CD Permit Number:	Country Dis Asiatika	• 12 1
U/L or Qtr/Qtr: <u>E</u> Sec Center of Proposed Design: Latitu	tion: <u>18</u> Township: <u>30N</u> de: <u>36.81599</u> °N	Range: <u>5W</u> Longitude: -1	County: <u>Rio Arriba</u> 07.40368°W NAD: X	1027 1092
Surface Owner: Federal		al Trust or Indian All	- 4	
			otment particular	
Pit: Subsection F or G of 19.15	17.11 NMAC		in a star water and the second	
	orkover		1. 1. A. A. F.	
	Cavitation P&A			
Lined Unlined	Liner type: Thickness mil	LLDPE HDP	E PVC Other	
Lined Unlined	Liner type: Thickness mil		E PVC Other	
String-Reinforced				
String-Reinforced			Dimensions L x W	x D
String-Reinforced Liner Seams: Welded	Factory Other			
String-Reinforced Liner Seams: Welded	Factory Other	Volume: bbl	Dimensions L x.W	E general de
String-Reinforced Liner Seams: Welded Closed-loop System: Subsection: P&A	Factory Other	Volume:bbl	Dimensions Lx.W	E general de
String-Reinforced Liner Seams: Welded Closed-loop System: Subse Type of Operation: P&A Drying Pad Above Green	Factory Other extion H of 19.15.17.11 NMAC Drilling a new well Workover or D notice of intent ound Steel Tanks Haul-off Bins	Volume:bbl villing (Applies to activ t) Other	Dimensions L X.W	E general de
String-Reinforced Liner Seams: Welded Closed-loop System: Subse Type of Operation: P&A Drying Pad Above Gre Lined Unlined Line	Factory Dther ction H of 19.15.17.11 NMAC Drilling a new well Workover or D notice of intent ound Steel Tanks Haul-off Bins ner type: Thicknessmil	Volume:bbl	Dimensions L X.W	E general de
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String-Reinforced Liner Seams: Welded  Closed-loop System: Subse Type of Operation: P&A  Drying Pad Above Gre Lined Unlined Lin Liner Seams: Welded	Factory Other tection H of 19.15.17.11 NMAC Drilling a new well Workover or D notice of intent ound Steel Tanks Haul-off Bins ner type: Thickness mil Factory Other n I of 19.15.17.11 NMAC	Volume:bbl prilling (Applies to activ t) Other LLDPE HDPE	Dimensions L x.W	E general de
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String-Reinforced         Liner Seams:       Welded         3       Closed-loop System:         Type of Operation:       P&A         .       Drying Pad       Above Gro         .       Lined       Unlined       Liner Seams:         .       Liner Seams:       Welded       Image: Subsection Seams:         4       X       Below-grade tank:       Subsection Subsection Subsection Subsection Subsection Subsection Seams:         Volume:       120       Tank Construction material:	Factory Other	Volume:bbl villing (Applies to activ t) Other LLDPE HDPE	Dimensions L X W	E general de
String-Reinforced         Liner Seams:       Welded         3       Closed-loop System:         Type of Operation:       P&A         .       Drying Pad       Above Green         Lined       Unlined       Line         Liner Seams:       Welded       Image: Subsection         Volume:       120         Tank Construction material:       Secondary containment with leak	Factory Other	Volume:bbl	Dimensions L X W	E general de
String-Reinforced Liner Seams: Welded  Closed-loop System: Subset Type of Operation: P&A  Drying Pad Above Gre Lined Unlined Lin Liner Seams: Welded	Factory       Other         ection H of 19.15.17.11 NMAC         Drilling a new well       Workover or D notice of intent         ound Steel Tanks       Haul-off Bins         ner type:       Thickness       mil         Factory       Other	Volume:bbl Prilling (Applies to activ t) Other DtLLDPE HDPE HDPE	Dimensions L x W ities which require prior approval ( 	n and a star
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String-Reinforced         Liner Seams:       Welded         3       Closed-loop System:         Type of Operation:       P&A         Drying Pad       Above Grup         Lined       Unlined         Liner Seams:       Welded         4       X         Below-grade tank:       Subsection         Volume:       120         Tank Construction material:       Secondary containment with leak         Visible sidewalls and liner       Liner Type:         Thickness       Thickness	Factory       Other         ection H of 19.15.17.11 NMAC         Drilling a new well       Workover or D notice of intent         ound Steel Tanks       Haul-off Bins         ner type:       Thickness       mil         Factory       Other	Volume:bbl  Trilling (Applies to activ t)  Other  LLDPE HDPE ter  6-inch lift and automati r  X Other Unspe	Dimensions L x W rities which require prior approval ( PVD Other c overflow shut-off cified	of a permit or
String-Reinforced         Liner Seams:       Welded         3       Closed-loop System:         Type of Operation:       P&A         Drying Pad       Above Grup         Lined       Unlined         Liner Seams:       Welded         4       X         Below-grade tank:       Subsection         Volume:       120         Tank Construction material:       Secondary containment with leak         Visible sidewalls and liner       Liner Type:         Thickness       Thickness	Factory       Other         ection H of 19.15.17.11 NMAC         Drilling a new well       Workover or D notice of intent         ound Steel Tanks       Haul-off Bins         ner type:       Thickness         Thickness       mil         Factory       Other         n I of 19.15.17.11 NMAC         bbl       Type of fluid:         Produced Wat         Metal         detection       X Visible sidewalls, liner, for the produced walls only         Other       Other	Volume:bbl  Prilling (Applies to activ  ) OtherHDPE HDPE ter 6-inch lift and automati r X Other Unspe ue Santa Fe Environmen	Dimensions L x W rities which require prior approval ( PVD Other c overflow shut-off cified	of a permit or

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" <u>Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist:</u> Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the 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 appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13 Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19,15,17,9 NMAC and 19,15,17,13 NMAC
14 Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two fare required.	acilities					
Disposal Facility Name: Disposal Facility Permit #:						
Disposal Facility Name: Disposal Facility Permit #:						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information No						
Required for impacted areas which will not be used for fitture service and operations:         Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	с					
17						
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided belo certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.						
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 obtained from nearby wells	□N/A					
Ground water is between 50 and 100 feet below the bottom of the buried waste	TYes No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells						
- NM Office of the State Engineer - Tw ATERS database search, USUS; Data obtained from hearby wells	N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No					
- Topographic map; Visual inspection (certification) of the proposed site						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No					
- Visual inspection (certification) of the proposed site; Aerial photo; satellite image						
Within 500 horizontal 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 fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	UYes No					
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.	Yes No					
- Written confirmation or verification from the municipality: Written approval obtained from the municipality Within 500 fact of a wester d						
<ul> <li>Within 500 feet of a wetland</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>						
Within the area overlying a subsurface mine.	Yes No					
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division						
Within an unstable area.	Yes No					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map						
Within a 100-year floodplain. - FEMA map	Yes No					
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closur by a check mark in the box, that the documents are attached.	re plan. Please indicate,					
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC						
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC					
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards can	nnot be achieved)					

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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I hereby certify that the in Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
	P to The	Date:	
Signature:	crystal.tafoya@conocophillips.com		12/22/2008
e-mail address:	crystal tardya & conocophinips com	Telephone:	505-326-9837
20 OCD Approval:	Permit Application (including closure plan)	Olosure Plan (only	) OCD Conditions (see attachment)
OCD Representative S	Signature:		Approval Date: Z/18/13
Title: <u>Servo</u>	2 Hydeologist	OCD Per	mit Number:
21	•		
	red within 60 days of closure completion): Sub	section K of 19.15.17.13 NM/	AC .
report is required to be su	bmitted to the division within 60 days of the completi	on of the closure activit	sure activities and submitting the closure report. The closure ies. Please do not complete this section of the form until an
approved closure plan has	s been obtained and the closure activities have been c		re Completion Date:
22 Closure Method:		. •	
Waste Excavation	and Removal On-site Closure Method	Alternative Closur	e Method Waste Removal (Closed-loop systems only)
If different from a	pproved plan, please explain.	—	
23			· · · · · · · · · · · · · · · · · · ·
	ng Waste Removal Closure For Closed-loop System	s That Utilize Above (	Fround Steel Tanks or Haul-off Bins Only:
Instructions: Please ident			tings were disposed. Use attachment if more than two facilities
vere utilized.		Disposal Es vilia	to Down is North and
Disposal Facility Name		-	y Permit Number:
Disposal Facility Name			y Permit Number:
	vsiem operations and associated activities performed		
Yes (If yes, nlease			not be used for future service and opeartions?
_	demonstrate compliane to the items below)	No	ion be used for future service and opeartions?
Required for impacted		No	tor be used for future service and opeartions?
Required for impacted	demonstrate compliane to the items below)	No	int be used for future service and opeartions?
Required for impacted Site Reclamation ( Soil Backfilling ar	demonstrate compliane to the items below) [ areas which will not be used for future service and op Photo Documentation)	No	int be used for future service and opeartions?
Required for impacted Site Reclamation ( Soil Backfilling ar Re-vegetation App	demonstrate compliane to the items below) [ areas which will not be used for future service and of (Photo Documentation) ad Cover Installation	No	int be used for future service and opeartions?
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# New Mexico Office of the State Engineer

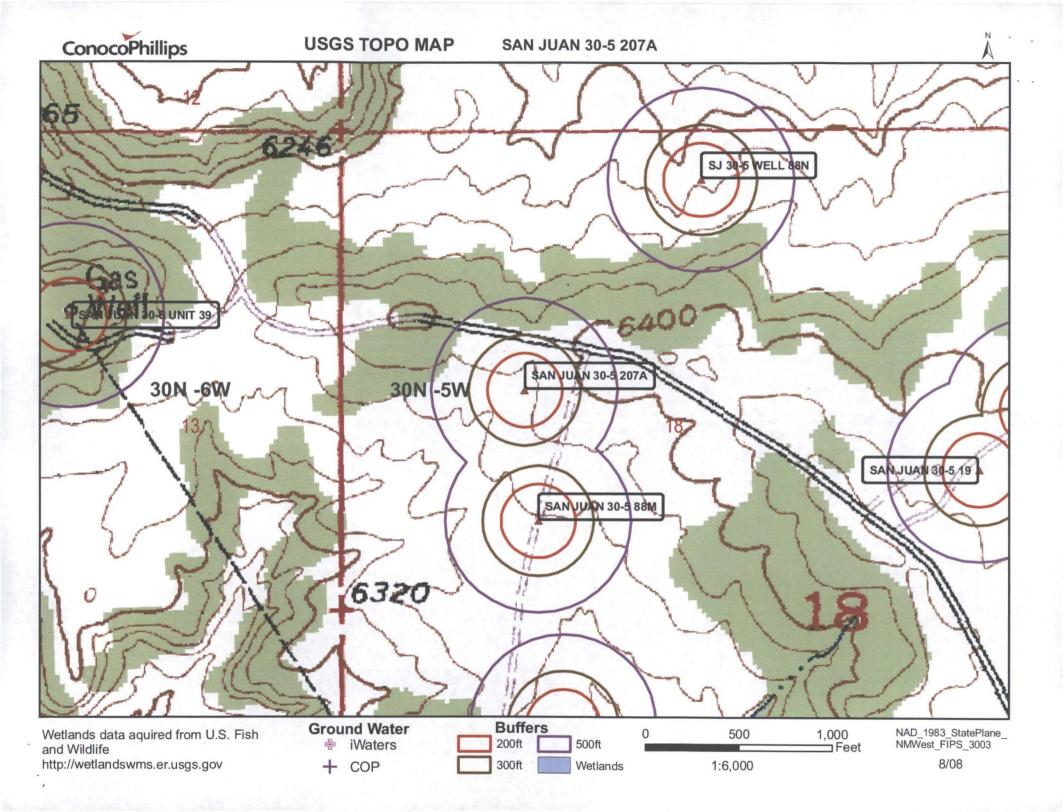
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New Mexico Office of the State Engineer POD Reports and Downloads
Township: 30N Range: 06W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic I All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form
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 Zone X Y Well Water Column
<b>SJ 00741</b> 30N 06W 17 4 2 3 2038 300 1738
<b>SJ 00041</b> 30N 06W 28 3 2 3 349
<b>SJ 00040</b> 30N 06W 28 3 2 3 420

Record Count: 3

4





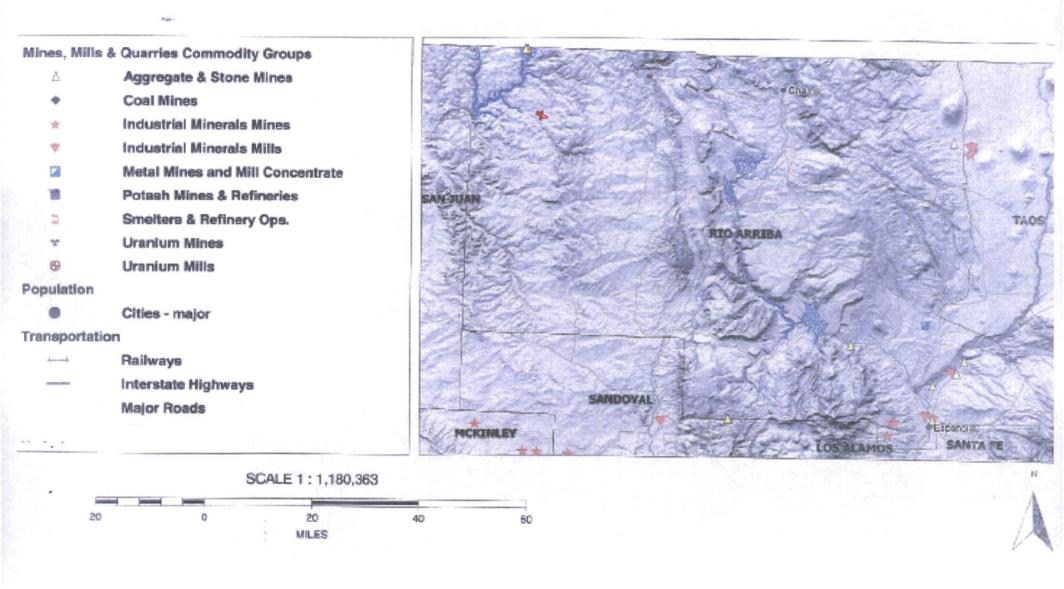
# AERIAL MAP SAN JUAN 30-5 207A



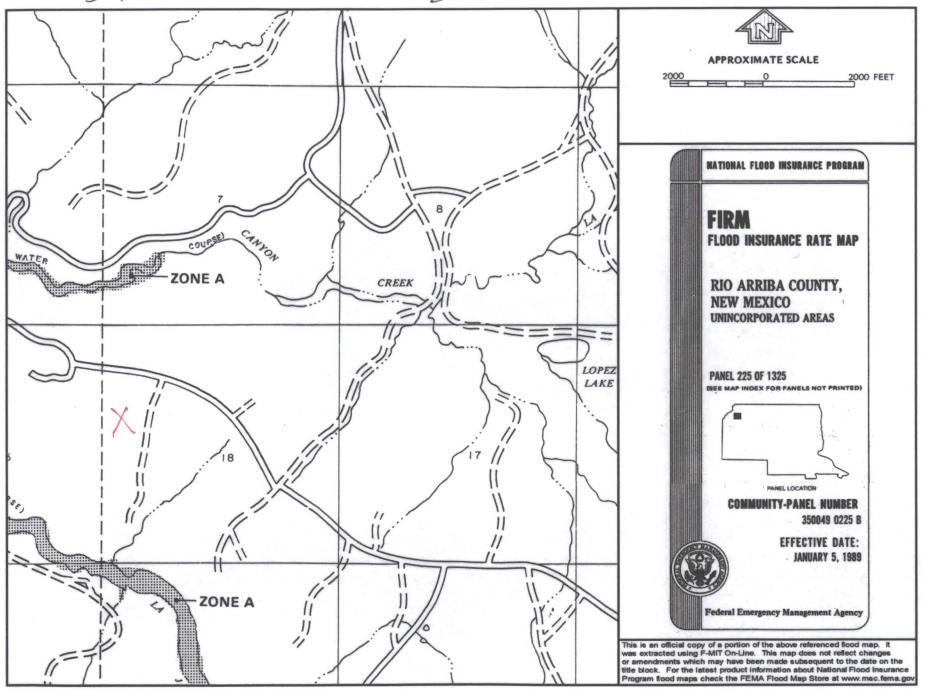
# Mines, Mills and Quarries Web Map

## SAN JUAN 30-5 207A

Unit Letter: E, Section: 18, Town: 030N, Range: 005W



SAM JUAN 30-5 207A



#### SAN JUAN 30-5 UNIT 207A

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 30-5 UNIT 207A', which is located at 36.81599 degrees North latitude and 107.40368 degrees West longitude. This location is located on the Gomez Ranch 7.5' USGS topographic quadrangle. This location is in section 18 of Township 30 North Range 5 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Allison, located 15.1 miles to the north. The nearest large town (population greater than 10,000) is Durango, located 41.2 miles to the northwest (National Atlas). The nearest highway is US Highway 64, located 7.7 miles to the southeast. The location is on Private land and is 259 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 1946 meters or 6382 feet above sea level and receives 14 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Big Sagebrush Shrubland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 348 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,998 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 2,459 feet to the north. The nearest water body is 4,854 feet to the southwest. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 38,220 feet to the southwest. 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 1,288 feet to the northeast. The nearest wetland is a 9.5 acre Ravine located 2,348 feet to the north. The slope at this location is 2 degrees to the southwest 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 'Orlie fine sandy loam, 1 to 8 percent slopes' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 4.0 miles to the east as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

#### Regional Hydrogeological context:

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

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

#### ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

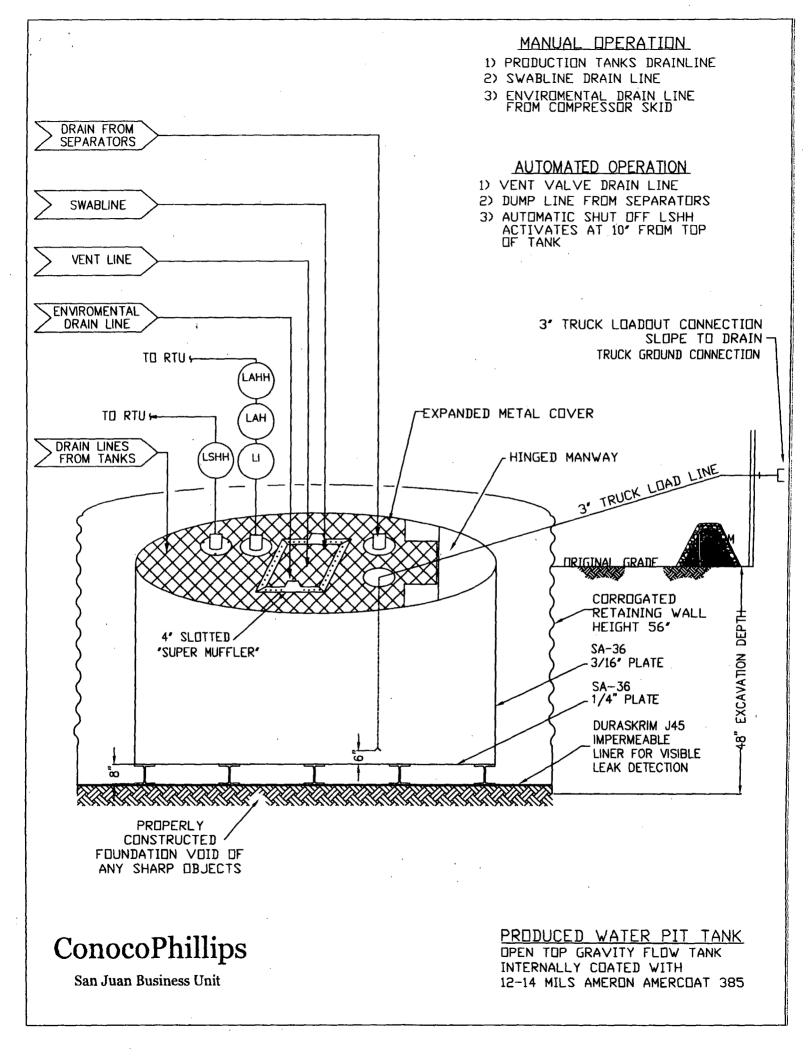
### General Plan:

- 1. COPC 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.
- COPC signage will comply with 19.15.3.103 NMAC when COPC is the operator. If COPC is not the operator it will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC 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. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. COPC will construct a screened, expanded metal covering, on the top of the BGT.
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The COPC 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. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC 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. COPC 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.

11/7/2008

- 9. COPC 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 COPC 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 COPC's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the COPC document.

11/7/2008



#### J36BB J45BB ALC MADE TEST METHOD **J30BB** Min. Roll Min. Roll Typical Roll Typical Roll Min. Roll Typical Roll Averages Averages Averages Averages Averages Averages Black/Black Appearance Black/Black Black/Black Thickness ASTM D 5199 27 mil 30 mil 32 mil 36 mil 45 mil 40 mil Weight Lbs Per MSF 126 lbs 140 lbs 151 lbs 168 lbs 189 lbs 210 lbs ASTM D 5261 (oz/yd²) (18.14)(20.16)(21.74)(24.19)(30.24)(27.21)Construction \*\*Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion **ASTM D 413** 16 ibs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 88 lbf MD 110 lbf MD 90 lbf MD 113 lbf MD 110 lbf MD 138 lbf MD ASTM D 7003 Tensile Strength 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 105 lbf DD 84 lbf DD 12.55 1" Tensile Elongation @ 550 MD 750 MD 550 MD 750 MD 550 MD 750 MD ASTM D 7003 Break % (Film Break) 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD 20 MD 30 MD 20 MD 36 MD ASTM D 7003 Peak %-(Scrim Break) 20 DD 20 DD 33 DD 31DD 20 DD 36 DD 75 lbf MD 97 lbf MD 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD Tongue Tear Strength ASTM D 5884 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD 180 lbf MD 218 lbf MD 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD Grab Tensile ASTM D 7004 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD 120 lbf MD 146 lbf MD 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD Trapezoid Tear ASTM D 4533 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD Dimensional Stability ASTM D 1204 <1 <1 < 0.5 <1 < 0.5 < 0.5 Puncture Resistance ASTM D 4833 50 lbf 64 lbf 65 lbf . 83 lbf 80 lbf 99 lbf Maximum Use Temperature 180° F 180° F 180° F 180° F 180° F 180° F

MD = Machine Direction DD = Diagonal Directions

Minimum Use Temperature

OURA-SCOM

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

-70° F

-70° F

\*Dimensional Stability Maximum Value

-70° F

\*\*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 disclaims all liability for resulting loss or damage.



PLANT LOCATION

-70° F

Sioux Falls, South Dakota

# SALES OFFICE

-70° F

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

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# 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.

#### ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- COPC 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. COPC 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. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC 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, COPC 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, COPC's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC 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 COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC 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, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC 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.

### ConocoPhillips Company 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 ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### **General Requirements:**

- COPC 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 within five years, if 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, COPC will file the C144 Closure Report as required.
- COPC 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. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC 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 50 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. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC 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 COPC 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
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of COPC'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. COPC 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. COPC 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 below-grade 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