The B District I 1635 N. Fernah Dr. Habbe, NM 98240	State of New Mexico	Form C-144								
District II 1301 W. Grand Ave., Artesia, NM 88210	Department Oil Conservation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.								
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe								
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.								
	Pit, Closed-Loop System, Below-Grad	de Tank, or								
Propos	sed Alternative Method Permit or Closu	re 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 perm below-grade tank, or proposed alternative metho	nitted or non-permitted pit, closed-loop system, d								
Instructions: Please submit one	application (Form C-144) per individual pit, closed-le	oop system, below-grade tank or alternative request								
Please be advised that approval environment. Nor does approval re	of this request does not relieve the operator of liability should operations lieve the operator of its responsibility to comply with any other applicable	result in pollution of surface water, ground water or the le governmental authority's rules, regulations or ordinances.								
1 Operator: ConocoPhillips Compar	ıy	OGRID#: <u>217817</u>								
Address: PO Box 4289, Farmingt	on, NM 87499									
Facility or well name: SAN JUAN	29-6 UNIT 72A									
API Number:	3003921344 OCD Permit Numb	per:								
U/L or Qtr/Qtr: F Secti	ion: 22 Township: 29N Range:	6W County: Rio Arriba								
Center of Proposed Design: Latitud	le: 36.71437°N Longitude:	-107.4532°W NAD: X 1927 1983								
Surface Owner: Federal	State X Private Tribal Trust or India	an Allotment								
Prit:       Subsection F or G or 19.13.1         Temporary:       Drilling         Wo       Permanent         Emergency       O         Lined       Unlined         String-Reinforced         Liner Seams:       Welded	rkover Cavitation P&A LLDPE mil LLDPE	HDPE         PVC         Other								
3       Closed-loop System:       Subsec         Type of Operation:       P&A       P&A         Drying Pad       Above Grov       Above Grov         Lined       Unlined       Line         Liner Seams:       Welded       F	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies t notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE	to activities which require prior approval of a permit or								
4         X       Below-grade tank:       Subsection         Volume:       120       I         Tank Construction material:       I         Secondary containment with leak d       I         Visible sidewalls and liner       I         Liner Type:       Thickness	I of 19.15.17.11 NMAC bbl Type of fluid: <u>Produced Water</u> <u>Metal</u> letection X Visible sidewalls, liner, 6-inch lift and au Visible sidewalls only Other <u>mil</u> HDPE PVC X Other	tomatic overflow shut-off								
Submittal of an exception request is re	equired. Exceptions must be submitted to the Santa Fe Envir	onmental Bureau office for consideration of approval.								
Form C-144	Oil Conservation Division	Page Lofs								

5 (* s ) <u>Fencing</u> : Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)								
Chann link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)								
Four foot height, four strands of barbed wire evenly spaced between one and four feet								
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.								
Netting:         Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)								
X Screen Netting Other								
Monthly inspections (If netting or screening is not physically feasible)								
8								
Signs: Subsection C of 19.15.17.11 NMAC								
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
X Signed in compliance with 19.15.3.103 NMAC								
9 Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.								
Please check a box if one or more of the following is requested, if not leave blank:								
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Fencing/BGT Liner)								
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10	1							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.	JEG1/6/17							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes - XNo							
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes XNo							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes XNo							
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo							
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.								
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality: Written approval obtained from the municipality	Yes XNo							
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes XNo							
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes XNo							
Within an unstable area.	TYes XNo							
- 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 XNo							

F 4							
16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (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	) facilities						
are required. Disposal Facility Name: Disposal Facility Parmit #:							
Disposal Pacifity Name: Disposal Pacifity Permit #:							
Disposal Facility Name: Disposal Facility Permit #:							
Yes (If yes, please provide the information No	service and operations?						
Required for impacted areas which will not be used for future service and operations:	40						
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.15 NMA	AL						
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							
	······································						
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 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 be 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.	low. Requests regarding changes to Se Santa Fe Environmental Bureau office						
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 \$0 and 100 feet below the bottom of the buried wate							
- 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.	Yes No						
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	UN/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.							
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						
Within 500 feet of a wetland							
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.	Yes No						
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division							
Within an unstable area.	Yes No						
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Tonographic map</li> </ul>							
Within a 100-year floodplain.	Yes No						
- FEMA map							
<sup>18</sup> <u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure 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	19.15.17.11 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 cannot be achieved)

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

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC

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

<b>Operator Application Cert</b>			
	lification:		
hereby certify that the informa	ation submitted with this application is true.	accurate and complete to the l	best of my knowledge and belief.
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician
Signature:	Costal Tapaga	Date:	12/22/2008
e mail address:	crystal tałownik cunucupny ps. com	Telephone:	505-326-9837
20		-	
OCD Approval: Perm	it Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signa	ature:		Approval Date: 1/4/17
0			
Fitle: Burezu	Chief	OCD Perm	it Number:
21 Closure Penort (required s	within 60 days of dosure completion);	Sub-sector K	
Instructions: Operators are req	juired to obtain an approved closure plan pri	ior to implementing any closur	re activities and submitting the closure report. The closure
eport is required to be submitte	ed to the division within 60 days of the comp	letion of the closure activities	e. Please do not complete this section of the form until an
ipproved closure plan has been	s obtained and the closure activities have been	en completed.	
		Closure	Completion Date:
22			
Closure Method:			
Waste Excavation and F	Removal On-site Closure Method	d Alternative Closure	Method Waste Removal (Closed-loop systems only)
If different from approv	ved plan, please explain.		
1			
Josure Report Regarding W	aste Removal Closure For Closed-loop Sys	tems That Utilize Above Gro	ound Steel Tanks or Haul-off Bins Only:
nstructions: Please identify th	e facility or facilities for where the liquids,	drilling fluids and drill cuttin	gs were disposed. Use attachment if more than two facilities
vere utilized.			
Disposal Facility Name:		Disposal Facility	Permit Number:
Were the closed loop system	n operations and associated activities perform	Disposal Facility I	be used for future service and upportions?
Yes (If yes, please demo	onstrate compliane to the items below)	No	be used for future service and opeantons?
Paurized for impacted areas	s which will not be used for future service on	d operations:	
Site Reclamation (Photo	o Documentation)	a operations.	
Soil Backfilling and Co	ver Installation		
Re-vegetation Applicati	on Rates and Seeding Technique		
4			
4 Closure Report Attachm	vent Checklist: Instructions: Each of the	following items must be attac	hed to the closure report. Please indicate, by a check mark in
4 <u>Closure Report Attachm</u> the box, that the documents	vent Checklist: Instructions: Each of the are attached.	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm     the box, that the documents     Proof of Closure Notice	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site c	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site c Confirmation Samplin Waste Material Sampl Disposal Facility Nam	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) 1g Analytical Results (if applicable) ling Analytical Results (if applicable) we and Permit Number	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm the box, that the documents     Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin     Waste Material Sampl     Disposal Facility Nam     Soil Backfilling and C	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) ne and Permit Number lover Installation	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm     the box, that the documents     Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin     Waste Material Sampli     Disposal Facility Nam     Soil Backfilling and C     Re-vegetation Applica	nent Checklist: Instructions: Each of the are attached. cc (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) we and Permit Number 'over Installation tion Rates and Seeding Technique	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm     the box, that the documents     Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin     Waste Material Sampl     Disposal Facility Nam     Soil Backfilling and C     Re-vegetation Applica     Site Reclamation (Pho	nent Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) we and Permit Number cover Installation tion Rates and Seeding Technique to Documentation)	following items must be attac	hed to the closure report. Please indicate, by a check mark in
Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site c Confirmation Samplin Waste Material Sampli Disposal Facility Nam Soil Backfilling and C Re-vegetation Applica Site Reclamation (Pho On-site Closure Location)	ment Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) ue and Permit Number over Installation ttion Rates and Seeding Technique to Documentation) ion: Latitude:	following items must be attac	hed to the closure report. Please indicate, by a check mark inNAD [] 1927 [] 1983
Closure Report Attachm     the box, that the documents     Proof of Closure Notice     Proof of Deed Notice     Plot Plan (for on-site c     Confirmation Samplin     Waste Material Sampl     Disposal Facility Nam     Soil Backfilling and C     Re-vegetation Applica     Site Reclamation (Pho     On-site Closure Location	ment Checklist: Instructions: Each of the are attached. ce (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) ue and Permit Number cover Installation tion Rates and Seeding Technique to Documentation) ion: Latitude:	following items must be attac	hed to the closure report. Please indicate, by a check mark inNAD [] 1927 [] 1983
	ment Checklist: Instructions: Each of the are attached. cc (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) us and Permit Number cover Installation ition Rates and Seeding Technique to Documentation) ion: Latitude:	following items must be attac	hed to the closure report. Please indicate, by a check mark inNAD [] 1927 [] 1983
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Closure Report Attachm the box, that the documents Proof of Closure Notice Proof of Deed Notice Plot Plan (for on-site c Confirmation Samplin Waste Material Sampli Disposal Facility Nam Soil Backfilling and C Re-vegetation Applica Site Reclamation (Pho On-site Closure Locati	nent Checklist: Instructions: Each of the are attached. cc (surface owner and division) (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable) ling Analytical Results (if applicable) ne and Permit Number 'over Installation ttion Rates and Seeding Technique to Documentation) ion: Latitude: <u>tion:</u> tion and attachments submitted with this close plicable closure requirements and conditions	following items must be attac Longitude: ure report is ture, accurate at specified in the approved clo	hed to the closure report. Please indicate, by a check mark in           NAD         1927         1983           Ind complete to the best of my knowledge and belief. I also certify that sure plan.
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Township: 29N Ran	ge: 06W Sections:	
NAD27 X:	Zone: Sea	rch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) O Non-	-Domestic O Domestic O All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

· · ·

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	• 1=)	NW	2=	NE	3=SW 4=SE)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	P Q	q	q	Zone	x	Y	Well	Water	Column	(111	ICEL/
SJ 03406	29N	06W	05	3	3	4				900	380	520		
SJ 00038	29N	06W	06	4	4	3				813				
SJ 02794	29N	06W	12	2	2	2				280	140	140		
SJ 03364	29N	06W	13	3	4	1				900	620	280		
SJ 03392	29N	06W	20	3	4	4				210				
SJ 03481	29N	06W	20	3	4	4				250				
SJ 00059 S-2	29N	06W	26	4	4	4				565	275	290		
SJ 03393	29N	06W	30	4	4	2				210				
SJ 00059	29N	06W	35	2	2	2				365	120	245		
SJ 00059 S	29N	06W	35	2	2	2				335	120	215		
SJ 00059 S-3	29N	06W	35	2	2	3				561	146	415		

Record Count: 11





# AERIAL MAP SAN JUAN 29-6 72A



1:6,000

8/08

# Mines, Mills and Quarries Web Map

SAN JUAN 29-6 72A

Unit Letter: F, Section: 22, Town: 029N, Range: 006W



MILES



80



5AN JUAN 29-6 #72A



### SAN JUAN 29-6 UNIT 72A

## Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 29-6 UNIT 72A', which is located at 36.71437 degrees North latitude and 107.4532 degrees West longitude. This location is located on the Four mile Canyon 7.5' USGS topographic quadrangle. This location is in section 22 of Township 29 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Turley, located 18.4 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 41.8 miles to the west (National Atlas). The nearest highway is US Highway 64, located 1.3 miles to the south. The location is on Private land and is 107 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 1944 meters or 6376 feet above sea level and receives 13.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 16 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 449 feet to the south and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 3,144 feet to the southwest. The nearest water body is 3,144 feet to the southwest. It is classified by the USGS as an intermittent lake and is 1.6 acres in size. The nearest spring is 10,848 feet to the northwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,685 feet to the west. The nearest wetland is a 1.4 acre Freshwater Forested/Shrub Wetland located 3,125 feet to the southwest. The slope at this location is 2 degrees to the south 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 10.5 miles to the northeast 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:

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- 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.

- 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.



# **DURA-SKRIM®**

PROPERTIES	TEST METHOD	J3	0B <b>B</b>	J36	688	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance		Black	Black/Black		/Black	Black	/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (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	ted tri-direction	al scrim reinford	cement	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
15 Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD 33 MD 33 DD	550 MD 550 DD	750 MD 750 DD 30 MD 31DD	550 MD 550 DD 20 MD 20 DD	750 MD 750 DD	
1 <sup>*</sup> Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD		20 MD 20 DD			36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F	
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F	

MD = Machine Direction DD = Diagonal Directions



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

\*Dimensional Stability Maximum Value

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

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



PLANT LOCATION

SALES OFFICE

30, 136 8, 145

Sioux Falls, South Dakota

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

# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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 REFERED 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 o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted 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.
- 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 othe: EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. 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