	Energy Minards and Natural Resources	July 21, 200
REGISTERED	-ation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
	St. Francis Dr. Sama re, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
District IV 220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
	osed-Loop System, Below-Grad	
Proposed Alter	rnative Method Permit or Closur	re Plan Application
Type of action: X Permi	it of a pit, closed-loop system, below-grade	ank, or proposed alternative method
Closu	re of a pit, closed-loop system, below-grade	tank, or proposed alternative method
Modi	fication to an existing permit	
	re plan only submitted for an existing permi -grade tank, or proposed alternative method	tted or non-permitted pit, closed-loop system,
		op system, below-grade tank or alternative request
	does not relieve the operator of liability should operations	
environment. Nor does approval relieve the operat	tor of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
1 Operator: ConocoPhillips Company		OGRID#: <u>217817</u>
Address: PO Box 4289, Farmington, NM 87	7499	
Facility or well name: JICARILLA 22 8		
API Number: 300392128	OCD Permit Numbe	r:
U/L or Qtr/Qtr: Section:16		4W County: Rio Arriba
Center of Proposed Design: Latitude:	36.397258°N Longitude:	107.25189°W NAD: X 1927 1983
Surface Owner: Federal Sta	ate 🔲 Private 🚺 Tribal Trust or India	II Anounent
Pit: Subsection F or G of 19.15.17.11 NMAC	2	
Temporary: Drilling Workover Permanent Emergency Cavitation [Lined Unlined Liner type: String-Reinforced Liner Seams: Welded Factory 3 Closed-loop System: Subsection H of 19. Type of Operation: P&A Drilling a Drying Pad Above Ground Steel Tar Lined Unlined Liner type:	P&A Thickness mil LLDPE Other Volume:15.17.11 NMAC .new well Workover or Drilling (Applies to notice of intent)	HDPE PVC Other bbl Dimensions L x W x D
Pit: Subsection F or G of 19:15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation [Lined Unlined Liner type: String-Reinforced Liner Seams: Welded Factory 3 Closed-loop System: Subsection H of 19. 3 Closed-loop System: Subsection H of 19. 3 Drying Pad Above Ground Steel Tai 1 Lined Unlined Liner type: Liner Seams: Welded Factory 120 4 X Below-grade tank: Subsection I of 19.15.17 Volume: 120 bbl Ty Tank Construction material: Secondary containment with leak detection	P&A Thickness mil LLDPE Other Volume: .15.17.11 NMAC .new well Workover or Drilling (Applies to notice of intent) nks Haul-off Bins Other Thickness mil LLDPE Thickness mil LLDPE 7.11 NMAC Produced Water Metal X Visible sidewalls, liner, 6-inch lift and aut ble sidewalls only Other	HDPE PVC Other bbl Dimensions Lx Wx D o activities which require prior approval of a permit or HDPE PVD Other
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Chain link, six feet in height, two strands of barbed wire at top (<i>Required of located-within 1000-feet of a permanent residence, school, hospital, in</i> Four foot height, four strands of barbed wire evenly spaced between one and four feet	stanion or ch	urch)
N Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
7 <u>Netting:</u> 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 con (Fencing/BGT Liner)	sideration of a	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	ΧΝο
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
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 boundarles 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.	Yes	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

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□ 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 □ Luer 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 19.15.17.11 NMAC □ Muisance or Hazardous Odors, including H2S, Prevention Plan □ Oil Field Waste Stream Characterization □ Closure Plan - based upon the appropriate requirements of the proposed closure plan. ype: □ Diffield Waste Stream Characterization □ Oil Field Waste Stream Characterization □ □ Oil Field Waste Stream Characterization □ □ Oil Field	Siting Criteria Cor	npliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
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X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	-	
	Xaste Excavation and R lease indicate, by a check X Protocols and Proce X Confirmation Samp X Disposal Facility N X Soil Backfill and C	mark in the box, that the documents are attached. edures - based upon the appropriate requirements of 19.15.17.13 NMAC oling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ame and Permit Number (for liquids, drilling fluids and drill cuttings) over Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
IVI Vita Replamation Plan bacad upon the appropriate assumption of Subsection C of 10.15.17.12 MMAAC	X Site Reclamation P	tan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Ouly:</u> (19.45.17.13.D Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more are required.	NMAC) them two facilities
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 will not be used for Yes (If yes, please provide the information No	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17. 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	.13 NMAC
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 pre- certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submi- for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ovided below: Requests regarding changes to itted to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	Yes No N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells	
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).	e 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. - 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 wateri 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	ing Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adop pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	oted Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	TYes 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 by a check mark in the box, that the documents are attached.	e closure 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 NM	IAC
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirement	ents 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 N	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 stand	lards 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 I of 19.15.17.13 NMAC

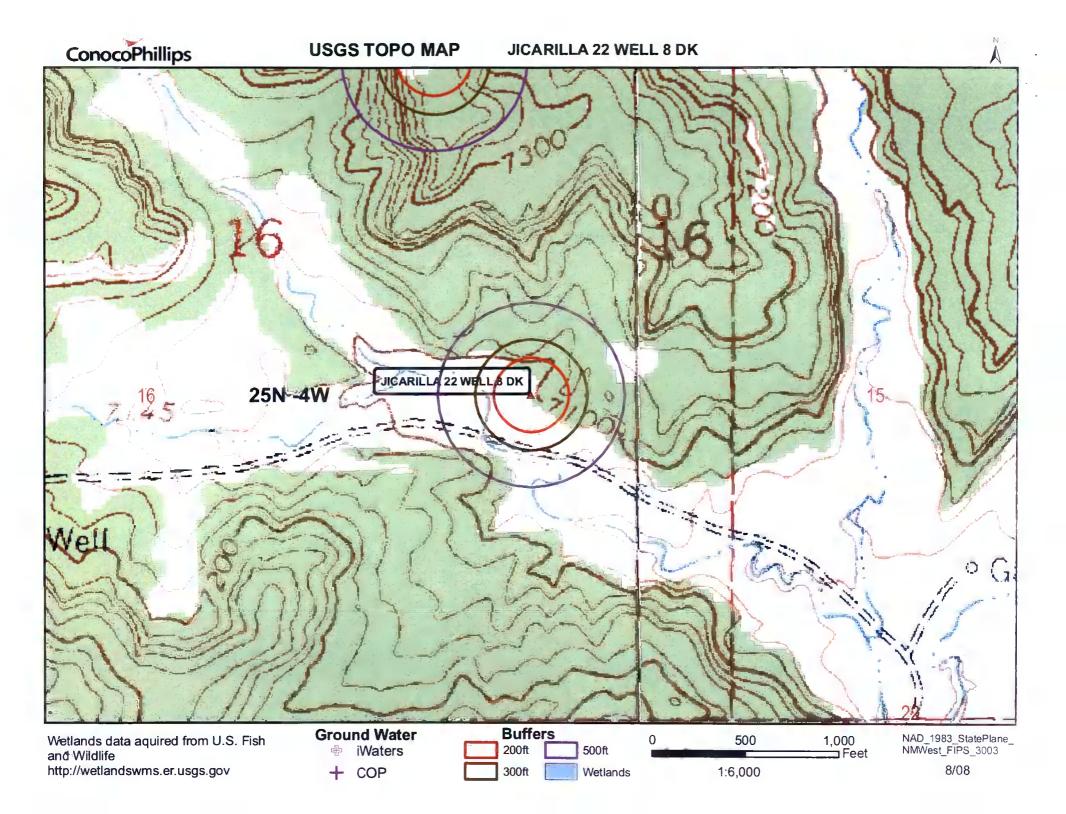
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19 Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and con	nplete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title	e: Regulatory Technician
Signature: NINDOD JADONO Date	
	hone: 505-326-9837
contraction of the second contraction of the	None
20	
	Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
21 Closure Report (required within 60 days of closure completion): Subsection K of 19. Instructions: Operators are required to obtain an approved closure plan prior to implementi report is required to be submitted to the division within 60 days of the completion of the closure approved closure plan has been obtained and the closure activities have been completed.	ing any closure activities and submitting the closure report. The closure
22 Closure Method:	
	tive Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.	wase removal (closed-loop systems only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utiliz	A Alexen Convert Start Tests on Hard of P. Out
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and	re Above Ground Steel Tanks or Haut-on Bins Only:
were utilized.	and an annual war and and a see an annual of more man two justimes
Disposal Facility Name: Disp	osal Facility Permit Number:
Disposal Facility Name: Disp	osal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in area	s that will not be used for future service and opeartions?
Yes (If yes, please demonstrate compliane to the items below)	
Required for impacted areas which will not be used for future service and operations:	
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24	
Closure Report Attachment Checklist: Instructions: Each of the following items	must be attached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.	
Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (if applicable)	
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude: Longitu	ude:NAD [1927 [1983
25 One of the Classification of the Classifi	
Operator Closure Certification:	a continue and consider to the base of my heard down in the P. C. S. C. Street
I hereby certify that the information and attachments submitted with this closure report is tur the closure complies with all applicable closure requirements and conditions specified in the	
Name (Print):	itle:
Signature: D	ate:
e-mail address:Telep	phone:

New Mexico Office of the State Engineer

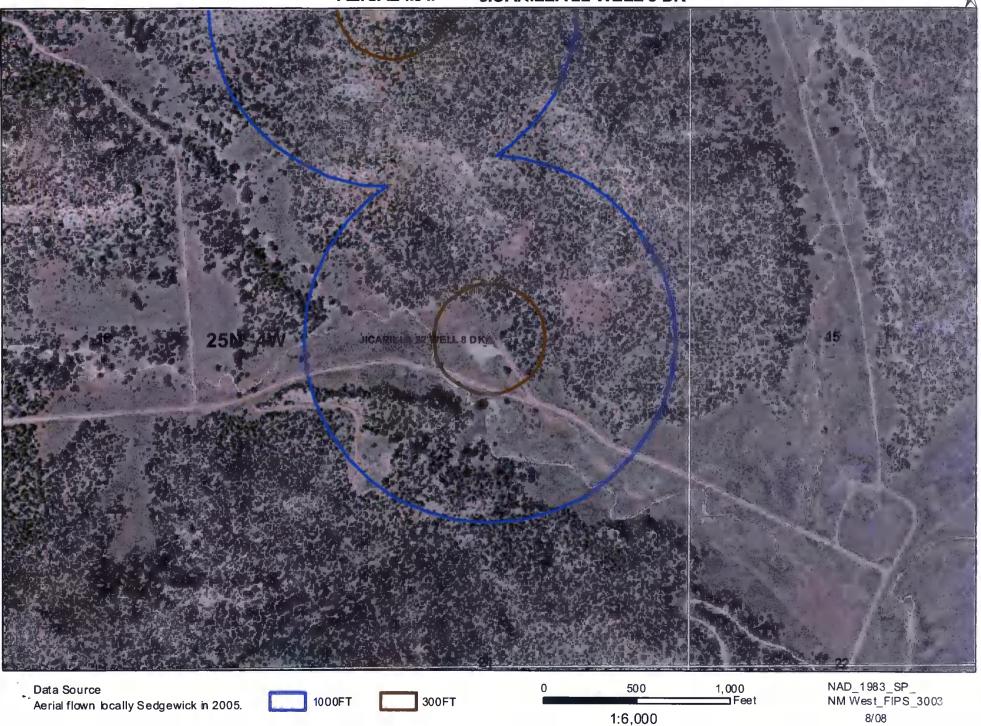
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NAD27	x:		Y:			Zone	:		Sear	ch Radiu	s:		
County:	B	asin:		-				Num	ber:		Suffix:		
Owner Name: (First)				T) (I	Last)			ſ	Non-I	Domestic	○ Dom	estic @	All
POD / Surface	Data Re	port			Avg	Depth to	Water	Report	40-1-2 - 5	Wat	er Column	Report	
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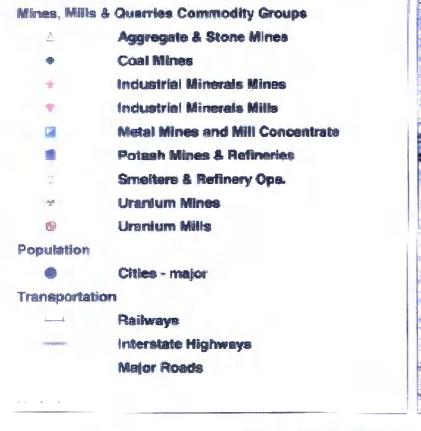
AERIAL MAP JICARILLA 22 WELL 8 DK

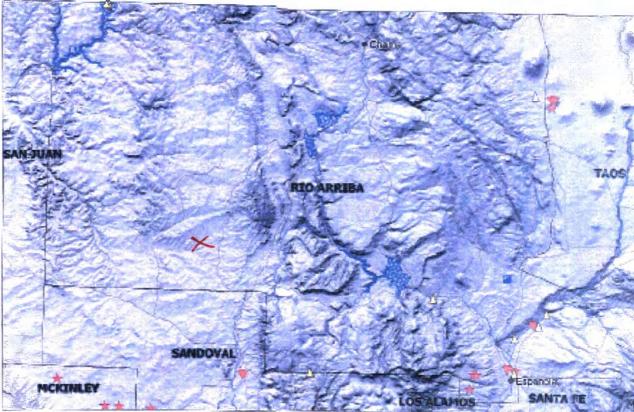


Mines, Mills and Quarries Web Map

JICARILLA 22 WELL 8 DK

Unit Letter: , Section: 16, Town: 25N, Range: 4W









JICARILLA 22 WELL 8DK

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'JICARILLA 22 WELL 8 DK', which is located at 36.397258 degree North latitude and 107.25189 degree West longitude. This location is located on the Lapis Point 7.5' USGS topographic quadrangle. This location is in section 16 of Township 25 North Range 4 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 La Jara, located 26.5 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 57.9 miles to the northwest (National Atlas). The nearest highway is State Highway 537, located 1.6 miles to the southeast. The location is on Tribal land and is 16,821 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Subbasin. This location is located 2164 meters or 7097 feet above sea level and receives 12.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 27 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 400 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,101 feet to the southeast. The nearest water body is 4,017 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.9 acres in size. The nearest spring is 43,820 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 8,933 feet to the southeast. There is no wetland data available for this area. The slope at this location is 4 degree 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 'Rock outcrop-Vessilla-Menefee complex, 15 to 45 percent slopes' and is well drained and unknown with not rated erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 19.7 miles to the southeast 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.

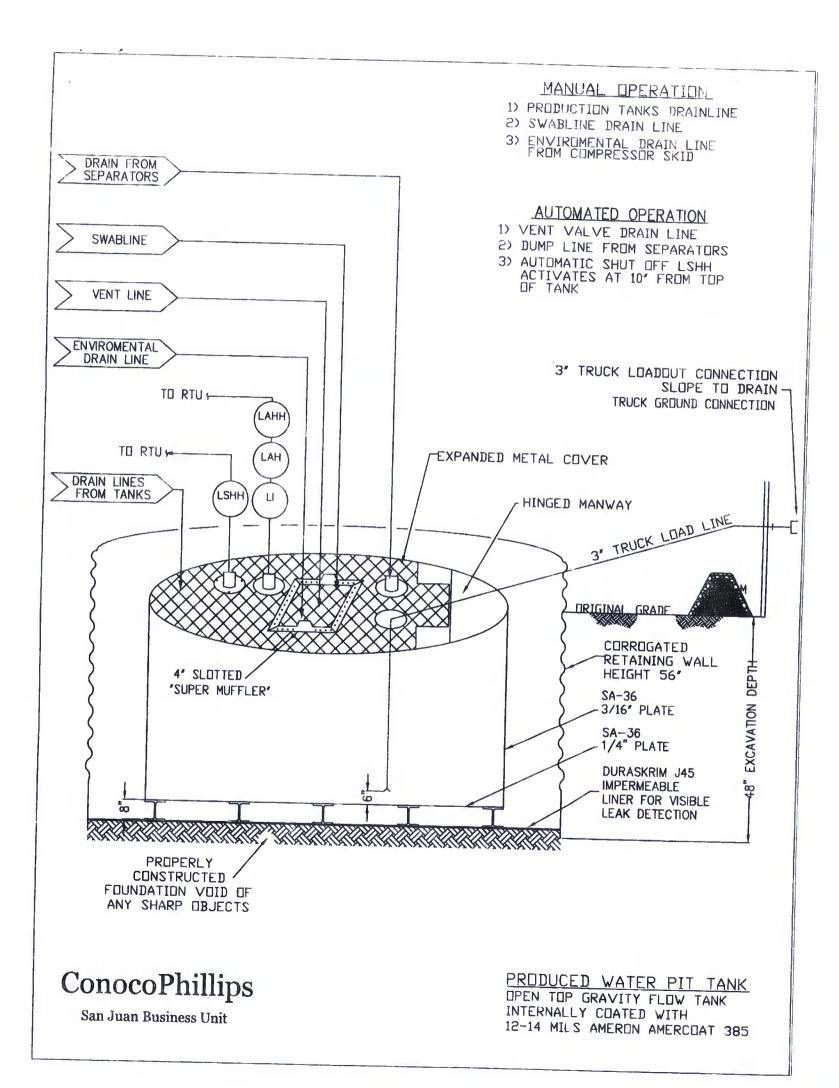
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.
- 2. 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®

TEST METHOD	ំ ្រំ ្រ ្វ	308B	J3	6BB	J45BB		
	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll	Typical Roll Averages	
	Blac	k/Black	Black	Black/Black		/Black	
ASTM D 5199	27 mil	30 mil	32 mil	36 mil		45 mil	
ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24,19)	189 lbs	210 lbs (30.24)	
	**Ext	rusion laminated					
ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs		31 lbs	
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	
ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
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	
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 lbí DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
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	
ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf		99 lbf	
	180° F	180° F	180° F			180° F	
	-70° F	-70° F				-70° F	
	ASTM D 5199 ASTM D 5261 ASTM D 413 ASTM D 7003 ASTM D 7002 ASTM D 7003 ASTM D 7004 ASTM D 7004 ASTM D 4533 ASTM D 1204	Min. Roll Averages Blac ASTM D 5199 27 mil ASTM D 5261 126 lbs (18.14) ASTM D 5261 126 lbs (18.14) ASTM D 413 16 lbs ASTM D 7003 88 lbf MD 63 lbf DD ASTM D 7002 550 MD 550 DD ASTM D 7003 20 MD 20 DD ASTM D 7003 20 MD 20 DD ASTM D 7003 20 MD 20 DD ASTM D 7004 180 lbf MD 180 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD ASTM D 1204 <1	Min. Roll Averages Typical Roll Averages Black/Black Black/Black ASTM D 5199 27 mil 30 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) ASTM D 413 16 lbs 20 lbs ASTM D 7003 88 lbf MD 63 lbf DD 110 lbf MD 79 lbf DD ASTM D 7003 550 MD 550 DD 750 MD 750 DD ASTM D 7003 20 MD 20 DD 33 MD 33 DD ASTM D 7003 20 MD 20 DD 33 MD 33 DD ASTM D 7004 180 lbf MD 75 lbf DD 97 lbf MD 90 lbf DD ASTM D 7004 180 lbf MD 120 lbf MD 120 lbf DD 218 lbf MD 210 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD 146 lbf MD 141 lbf DD ASTM D 4533 50 lbf 64 lbf ASTM D 4833 50 lbf 64 lbf	Min. Roll Averages Typical Roll Averages Min. Roll Averages Black/Black Black/Black Black ASTM D 5199 27 mil 30 mil 32 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) ASTM D 5261 126 lbs (18.14) 140 lbs 151 lbs (21.74) ASTM D 7003 88 lbf MD 63 lbf DD 10 lbs 19 lbs ASTM D 7003 88 lbf MD 63 lbf DD 110 lbf MD 79 lbf DD 90 lbf MD 70 lbf DD ASTM D 7003 20 MD 20 DD 33 MD 20 DD 20 MD 20 DD 20 MD 20 DD ASTM D 7003 20 MD 75 lbf DD 97 lbf MD 75 lbf DD 75 lbf MD 75 lbf DD 180 lbf MD 180 lbf MD 180 lbf DD ASTM D 7004 180 lbf MD 120 lbf DD 146 lbf MD 130 lbf DD 130 lbf MD 130 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD 141 lbf DD 130 lbf MD 130 lbf DD </td <td>Min. Roll Averages Typical Roll Averages Min. Roll Averages Typical Roll Averages Black/Black Black/Black Black/Black Black/Black ASTM D 5199 27 mil 30 mil 32 mil 36 mil ASTM D 5199 27 mil 30 mil 32 mil 36 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) 168 lbs (24.19) ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 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 ASTM D 7003 550 MD 550 DD 750 MD 750 DD 550 MD 750 DD 30 MD 31DD ASTM D 7003 20 MD 20 DD 33 MD 33 DD 20 MD 20 DD 30 MD 31DD ASTM D 7003 20 MD 20 DD 33 MD 20 DD 22 lbf MD 75 lbf DD 22 lbf MD 22 lbf DD ASTM D 5884 75 lbf MD 75 lbf DD 97 lbf MD 20 lbf DD 130 lbf MD 180 lbf DD 222 lbf MD 223 lbf DD ASTM D 7004 180 lbf MD 180 lbf DD 130 lbf MD 130 lbf MD 189 lbf MD 172 lbf DD ASTM D 4833 50 l</td> <td>Min. Roll Averages Typical Roll Averages Min. Roll Averages Typical Roll Averages Black/Black Black ASTM D 5199 27 mil 30 mil 32 mil 36 mil 40 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) 168 lbs (24.19) 189 lbs (27.21) ***Extrusion laminated with encapsulated tri-directional scrim reinform 43 lbs 25 lbs 25 lbs ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs ASTM D 7003 88 lbf MD 110 lbf MD 90 lbf MD 750 MD 750 MD 550 MD ASTM D 7004 20 MD</td>	Min. Roll Averages Typical Roll Averages Min. Roll Averages Typical Roll Averages Black/Black Black/Black Black/Black Black/Black ASTM D 5199 27 mil 30 mil 32 mil 36 mil ASTM D 5199 27 mil 30 mil 32 mil 36 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) 168 lbs (24.19) ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 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 ASTM D 7003 550 MD 550 DD 750 MD 750 DD 550 MD 750 DD 30 MD 31DD ASTM D 7003 20 MD 20 DD 33 MD 33 DD 20 MD 20 DD 30 MD 31DD ASTM D 7003 20 MD 20 DD 33 MD 20 DD 22 lbf MD 75 lbf DD 22 lbf MD 22 lbf DD ASTM D 5884 75 lbf MD 75 lbf DD 97 lbf MD 20 lbf DD 130 lbf MD 180 lbf DD 222 lbf MD 223 lbf DD ASTM D 7004 180 lbf MD 180 lbf DD 130 lbf MD 130 lbf MD 189 lbf MD 172 lbf DD ASTM D 4833 50 l	Min. Roll Averages Typical Roll Averages Black/Black Black ASTM D 5199 27 mil 30 mil 32 mil 36 mil 40 mil ASTM D 5261 126 lbs (18.14) 140 lbs (20.16) 151 lbs (21.74) 168 lbs (24.19) 189 lbs (27.21) ***Extrusion laminated with encapsulated tri-directional scrim reinform 43 lbs 25 lbs 25 lbs ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs ASTM D 7003 88 lbf MD 110 lbf MD 90 lbf MD 750 MD 750 MD 550 MD ASTM D 7004 20 MD	

MD = Machine Direction

DD = Diagonal Directions

OURA STORMS

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

Sioux Falls, South Dakota

SALES OFFICE

IN RIDE LA

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.

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:

- 1. 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.
- 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 418.1 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