District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Dropor	Pit, Closed-Loop System, Below-Grac	le Tank, or re Plan Application
Flopos	Alternative Method Fernint of Closu	re rian Application
Type of action:	X Permit of a pit, closed-loop system, below-grade	tank, or proposed alternative method e tank, or proposed alternative method
	Modification to an existing permit Closure plan only submitted for an existing perm	itted or non-permitted pit, closed-loop system,
Instructions. Please submit one	application (Form C-144) per individual pit closed-la] on system belou⊨arade 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 e governmental authority's rules, regulations or ordinances.
1 Operator: ConocoPhillips Compan	ly	OGRID#: 217817
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: SAN JUAN	28-7 UNIT 107	
API Number:	3003907122 OCD Permit Numb	er:
U/L or Qtr/Qtr: K Secti	on: <u>11</u> Township: <u>27N</u> Range:	7W County: Rio Arriba
Center of Proposed Design: Latitud	e: Longitude:	107.5465°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or India	n Allotment
Permanent Emergency C String-Reinforced Lined Welded F	7.11 NMAC rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume:	HDPE PVC Other
3 Closed-loop System: Subsec Type of Operation: P&A	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent)	o activities which require prior approval of a permit or
Drying Pad Above Grou	und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE actory Other	HDPE PVD Other
4 X Below-grade tank: Subsection Volume: 120 b Tank Construction material:	I of 19.15.17.11 NMAC obl Type of fluid: <u>Produced Water</u> <u>Metal</u> detection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other	omatic overflow shut-off
Liner Type: Thickness	mil HDPE PVC XOther	Unspecified
Alternative Method:		
Submittal of an exception request is re	quired. Exceptions must be submitted to the Santa Fe Enviro	onmental Bureau office for consideration of approval.
	010 1 011	

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below grade (aiks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, Four foot height, four strands of barbed wire evenly spaced between one and four feet	institution or c	hurch)
X Alternate. Please specify 4 hog wire fencing topped with two strands barbed wire.		
7 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 <u>Administrative Approvals and Exceptions:</u> 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 X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for contract (Fencing/BGT Liner)	onsideration of	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	XNo
(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 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	XNo
 written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification many Tanagraphic many View Linearity (Control of the second s	Yes	XNo
Within the area overlying a subsurface mine. Within confirmation or verification or map from the NM EMNRD - Mining and Minaral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	XNo
Within a 100-year floodplain - FEMA map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items inust be attached to the application. Please indicate, by a check mark in the box, that the documents are attached	
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19,15,17.9 NMAC	
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9	
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
X Operating and Maintenance Plan - based upon the appropriate requirements of 19,15,17,12 NMAC	
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of	
19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API or Permit	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design)	
Previously Approved Operating and Maintenance Plan	
13 Permanent Pits Permit Application Checklist - Subsection B of 19 15 17 9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached	
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19, 15, 17, 10 NMAC	
Climatological Factors Assessment	
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC	
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
Chality Control/Ouslity Assurance Construction and Installation D	
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Nuisance or Hazardous Odors, including H2S, Prevention Plan	1
Emergency Response Plan	
Oil Field Waste Stream Characterization	1
Monitoring and Inspection Plan	
Erosion Control Plan	1
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
14	=
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan	
Type: Drilling Workover DEmergency Cavitation Deva Darmonal Die Vinster and Technic	
Alternative	
Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
15	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan	an
Please indicate, by a check mark in the box, that the documents are attached.	
[X] Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	
[X] Contribution Sampting Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC X Disposal Equility Name and Dumpit Number (for 1 - 1) in the superscript of the supersc	
Soil Backfill and Cover Design Specifications based upon the same	
Revenuents of Subsection H of 19.15.17.13 NMAC	
Site Pachamation Plan, based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	
Site rectamation Flan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

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In		
Waste Removal Closure For Closed-loop Systems That Utilize Above Groun	d Steel Tanks or Haul-off Bins Only: (19.15.17-13.D NMA)	0
mismonons. Thease mentify the facility or facilities for the disposal of liquids, di are required.	rilling fluids and drill cuttings. Use attachment if more than ts	vo facilities
Disposal Facility Name:	Disposal Facility Dormit #	
Disposal Facility Name	Disposal Pacifity Permit #	
Will any of the proposed closed-loop system operations and associated ac	Disposal Pachty Permit #:	
Yes (If yes, please provide the information No	terines occur on or in areas mat with not be used for futur	e service and operations?
Required for impacted areas which will not be used for future service and operat	tions:	
Soil Backfill and Cover Design Specification - based upon the app	ropriate requirements of Subsection H of 19.15.17.13 NN	IAC
Re-vegetation Plan - based upon the appropriate requirements of Si	ubsection I of 19.15.17/13 NMAC	
She Rectamation Plan - based upon the appropriate requirements o	Subsection G of 19.15.17.13 NMAC	
17		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 N	MAC	
instructions: Each string criteria requires a demonstration of compliance in the closure p certain string criteria may remire administrative approval from the appropriate district of	dan. Recommendations of acceptable source material are provided h	elow. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalency are re-	opice or may be considered an exception which must be submitted to spured. Please refer to 19,15,17,10.NMAC for guidance.	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 	a obtained from nearby wells	
	counce from hearing weins	
Ground water is between 50 and 100 feet below the bottom of the buried w	vaste	Yes No
 NM Office of the State Engineer - (WATERS database search: USGS; Data 	obtained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
 NM Office of the State Engineer - iWATERS database search; USGS; Data 	obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig	prificant watercourse of lakebed sinkhole, or playa lake	
(measured from the ordinary high-water mark).	and a second of accord sublicity of playa face	L Yes No
 Topographic map; Visual inspection (certification) of the proposed site 		
Within 300 feet from a permanent residence, school, hospital, institution, or church	h in existence at the time of initial application.	Yes No
 Visual inspection (certification) of the proposed site: Aerial photo: satellite in 	nage	
Walls for hat she had been a start of the st		Yes No
purposes, or within 1000 horizontal fee of any other fresh water well or spring that les	is than five households use for domestic or stock watering	1
 NM Office of the State Engineer - iWATERS database: Visual inspection (cc.) 	rtification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water	er well field covered under a municipal ordinance adopted	
 Written confirmation or verification from the municipality: Written approval 		
Within 500 feet of a weiland	obtained from the municipality	
- US Fishland Wildlife Wetland Identification map; Topographic map; Visual i	inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	i i i i i i i i i i i i i i i i i i i	
- Written confiramtion or verification or map from the NM EMNRD-Mining an	ad Mineral Division	
Within an unstable area.		
- Engineering measures incorporated into the design; NM Bureau of Geology &	Mineral Resources: USGS: NM Geological Society:	
Vithin a 100 year floodalain		
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructional Fa	a fab fill in the second se	
by a check mark in the box, that the documents are attached.	in of the following tems must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropri	ate requirements of 19 15 17 10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirem	nents 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 du	rving nad) - based upon the appropriate residence of the	
Protocols and Procedures - based upon the appropriate requirements of	of 19.15.17.13 NMAC	7.1.J.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the annronris	ate requirements of Subsection F of 10 15 17 13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirement	ents of Subsection F of 10.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquide drilling fluid)	and drill outlings or in press of size 1	
Soil Cover Design - based upon the appropriate requirements of Suber	s and urm cuttings or in case on-site closure standards car ection H of 19/15/17/13 NMAC	not be achieved)

19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.1.1 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

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	<u>Certification:</u>			
Thereby certify that the i	nformation submitted	with this application is true, a	ccurate and complete to the be	st of my knowledge and belief.
Name (Print):	Cr Cr	ystal Tafoya	Title:	Regulatory Technician
Signature:	LINGTO	Tabour	Date:	אוואריליכי בי
e-mail address:	civulat dova	Reproceedies up	Telephone	505 234 0027
			Telephone.	505-326-9837
20 OCD Approval:	Permit Application	(including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative	Signature:			Approval Date:
Title:			OCD Permit	Number:
21 Closure Report (requi Instructions: Operators a report is required to be su approved closure plan ha	ired within 60 days re required to obtain a domitted to the division s been obtained and th	of closure completion): so in approved closure plan prio is within 60 days of the comple ie closure activities have been	ubsection K of 19.15.17.13 NMAC r to implementing any closure tion of the closure activities. completed.	activities and submitting the closure report. The closure Please do not complete this section of the form until an
			Closure C	ompletion Date:
22	1 7			
Wasta Excession	and Damasul			
	and Kemoval	On-site Closure Method	Alternative Closure Me	ethod Waste Removal (Closed-loop systems only)
If afferent from a	pproved plan, please e	xplain.		
23				
Instructions: Please ident were utilized.	ify the facility or facil	losure For Closed-loop System lities for where the liquids, dr	ms That Utilize Above Grou alling fluids and drill cuttings	nd Steel Tanks or Haul-off Bins Only: were disposed. Use attachment if more than two facilities
Disposal Facility Name			Disposal Facility Per	mit Number:
Disposal Facility Name			Disposal Facility Per	mit Number:
Disposal Facility Name Were the closed-loop s	stem operations and a	associated activities performed	Disposal Facility Per I on or in areas that will not b	mit Number:
Disposal Facility Name Were the closed-loop s	ystem operations and a demonstrate compliant	associated activities performed ne to the items below)	Disposal Facility Per I on or in areas that will not b	mit Number:
Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted	e: ystem operations and a demonstrate complila areas which will not b	associated activities performed ne to the items below) e used for future service and c	Disposal Facility Per l on or in areas that will not b	mit Number:
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Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation (Soil Backfilling an Re-vegetation App 24 Closure Report Attes the box, that the docum	stem operations and a demonstrate complilat areas which will not b Photo Documentation d Cover Installation lication Rates and See achment Checklist: ments are attached.	associated activities performed ne to the items below) e used for future service and a) ding Technique Instructions: Each of the fold	Disposal Facility Per l on or in areas that will not b No operations:	to the closure report. Please indicate, by a check mark in
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Towr	nship: 27N	Range: 07W	Sections:
NAD27	X:	Y:	Zone: Search Radius:
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SJ 00195	27N	07W	15	2						1633	500	1133	
SJ 02314	27N	07W	17	3	3					355	320	35	
SJ 02408	27N	07W	21	2	1	3				400	300	100	
SJ 03274	27N	07W	3.5	3	4	4				450			
SJ 02404	27N	07W	35	4	3	3				550	250	300	

Record Count: 6

ConocoPhillips

TOPO MAP SAN JUAN 28-7 UNIT 107



X QTR-QTR-QTR

COP

Feet

Aug 26, 2008

ConocoPhillips

AERIAL MAP SAN JUAN 28-7 UNIT 107



Aerial flown locally Sedgewick in 2005. Wetlands Data Aquired from U.S. Fish and Wildlife Http://wetlandswms.er.usgs.gov USGS Topo

300ft City Limits

1000ft

1:10,000

250 500 1,000 Feet

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NAD_1983_SP_ NM West_FIPS_ 3003 Aug 26, 2008

MMQonline Public Version Map

Son Jush 28-7 Unit 107











SAN JUAN 28-7 UNIT 107

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-7 UNIT 107', which is located at 36.58649 degrees North latitude and 107.5465 degrees West longitude. This location is located on the Gould Pass 7.5' USGS topographic quadrangle. This location is in section 11 of Township 27 North Range 7 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 17.3 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 38.0 miles to the west (National Atlas). The nearest highway is US Highway 64, located 8.6 miles to the northeast. The location is on BLM land and is 3,465 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, Sub-basin. This location is located as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 267 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,521 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 3,640 feet to the southeast. The nearest water body is 3,632 feet to the southwest. It is classified by the USGS as a perennial lake and is 0.4 acres in size. The nearest spring is 3,090 feet to the south. 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 498 feet to the southwest. The nearest wetland is a 0.5 acre other located 3,609 feet to the southwest. The slope at this location is 2 degrees to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 20.7 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:

- 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®

J30, J36 a J45

PROPERTIES TEST METHON		J	30B8	J3	68B	J4588		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll	Typical Roll	
Appearance		Bla	ck/Black	Blac	k/Black	Blac	k/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40		
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	45 mil	
Construction		**Ext	I	d with encancul		(21.21)	(30.24)	
Phy Adhesion	ASTM D 413	16 lbc		a with encapsul		nal scrim reinfor	cement	
		10 105	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD	750 MD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5			
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	CE IL		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<0.5	
Aaximum Use Temperature		4000 5			83 lbf	80 lbf	99 lbf	
fining the T		180° F	180° F					
Ariumum Use Temperature		-70° F	-70° E					

DD = Diagonal Direction

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 all liability for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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 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

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 of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, 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 division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. 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.
- 9. 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

strict I 25 N. French Dr., Hobbs, NM 88240 strict II 01 W. Grand Ave., Artesia, NM 88210 strict III 00 Rio Brazos Rd., Aztec, NM 87410 strict IV 20 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Dropor	Pit, Closed-Loop System, Below-Grad	e lank, or Plan Application
Propos	Alternative Method Permit of Closur	e Flan Application
Type of action:	 X Permit of a pit, closed-loop system, below-grade t Closure of a pit, closed-loop system, below-grade Modification to an existing permit Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method 	ank, or proposed alternative method tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Please be advised that approval environment. Nor does approval re	of this request does not relieve the operator of liability should operations r lieve the operator of its responsibility to comply with any other applicable	esult in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
perator: ConocoPhillips Compared ddress: PO Box 4289, Farmingt	y on, NM 87499	OGRID#: <u>217817</u>
acility or well name: SAN JUAN	28-7 UNIT 104	
PI Number: /L or Qtr/Qtr: <u>M</u> Sect enter of Proposed Design: Latituc urface Owner: <u>X</u> Federal	3003907160 OCD Permit Numbe on: 3 Township: 27N Range:	r: 7W County: Rio Arriba 107.56597°W NAD: X 1927 1983 n Allotment
Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded	7.11 NMAC rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume:	HDPE PVC Other
	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE H actory Other	activities which require prior approval of a permit or
X Below-grade tank: Subsection Volume: 120 Tank Construction material:	I of 19.15.17.11 NMAC bbl Type of fluid: <u>Produced Water</u> <u>Metal</u> etection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other <u>mil</u> HDPE PVC X Other L	omatic overflow shut-off
Alternative Method:	quired. Exceptions must be submitted to the Santa Fe Enviro	nmental Bureau office for consideration of approval

 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent resta nee, school, hospital, i Pour foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u> 	nstitution or c	hurch)
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Image: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Image: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Image: Image: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Image: I		
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC		
 Administrative Approvals and Exceptions: Instifications 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 co (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	nsideration of	approval.
10 <u>Siting Criteria (regarding permitting)</u> : 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 With the 200 fort of a continuous la floating the state of the state	Yes	X No
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site: Aerial oboto: Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application		
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	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 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 Witten confirmation or writing the municipal time. Written confirmation or writing the municipal time.	Yes	XNo
 Written continuation of verification from the municipality; 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 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological	Yes	XNo
Within a 100-year floodplain - FEMA map	Yes Yes	XNo

1

14 <u>Temporary Pits, Emergency Pits and</u> Instructions: Each of the following items in	Below-grade Tanks I	Permit Application	1 Attachment Checklist	: Subsection B of 19,15,17/9 NMAC	
X Hydrogeologic Report (Below-g	ade Tanks) - based upo	a the requirements	of Parauranh (4) of Sub	ie cos, indi ing accuments are attached.	
Hydrogeologic Data (Temporary	and Emergency Pits) -	based upon the rea	urements of Paragraph (2) of Subcortion R of 10.15-17.0	
X Siting Criteria Compliance Dem	instrations - based upor	the appropriate re	autrements of 19.15.17.1		
X Design Plan - based upon the an	NODE 12 CONTRACTOR	of 10.15.17.13 MM	Acc	UNMAC	
Operating and Maintanance Diag	hop take requirements (0F19.15.17.11 NM	AC		
X Operating and Manuchanice Plan	pased upon the appro	priate requirement	60119.15.17.12 NMAC		
19.15.17.9 NMAC and 19.15.17	oxes 14 through 18, if a 13 NMAC	ipplicable) - based	upon the appropriate requ	airements of Subsection C of	
Previously Approved Design (attach	copy of design)	API		or Permit	
12 Closed-loop Systems Permit Applicat Instructions: Each of the following items mediate Geologic and Hydrogeologic Dat Siting Criteria Compliance Demo Design Plan - based upon the app Operating and Maintenance Plan Clamme Plane (Plane)	ion Attachment Check ist be attached to the app. a (only for on-site closu onstrations (onfy for on- ropriate requirements o - based upon the approp	klist: Subsection B lication. Please india re) - based upon th site closure) - base of 19.15.17.11 NM. priate requirements	of 19.15.17.9 NMAC ate, by a check mark in the e requirements of Paragr d upon the appropriate re AC of 19.15.17.12 NMAC	t box, that the documents are attached. aph (3) of Subsection B of 19.15.17.9 quirements of 19.15.17.10 NMAC)
Closure Plan (Please complete Bo NMAC and 19.15.17.13 NMAC	oxes 14 through 18, if a	pplicable) - based i	pon the appropriate requ	irements of Subsection C of 19.15.17	7.9
Previously Approved Design (attach	copy of design)	API			
Previously Approved Operating and I	Maintenance Plan	API			
Permanent Pits Permit Application C Instructions: Each of the following items n Hydrogeologic Report - based up Siting Criteria Compliance Demo Climatological Factors Assessmer Dike Protection and Structural Int Leak Detection Design - based up Liner Specifications and Compatil Quality Control/Quality Assurance Operating and Maintenance Plan - Freeboard and Overtopping Prevent Nuisance or Hazardous Odors, inc Emergency Response Plan Oil Field Waste Stream Characteri Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appi	hecklist: Subsection fust be attached to the ap- point the requirements of F instrations - based upon at is - based upon the appro- grity Design: based up on the appropriate requi- bility Assessment - base construction and Insta- based upon the approp- nation Plan - based upon luding H2S, Prevention zation	B of 19.15.17.9 NN plication. Please ind Paragraph (1) of Sul- the appropriate rec- ropriate requirement on the appropriate irements of 19.15.1 ed upon the appropri- ted upon the appropri- tillation Plan riate requirements the appropriate rec- Plan	AC <i>icate, by a check mark in t</i> section B of 19.15.17.9 uirements of 19.15.17.10 its of 19.15.17.11 NMAC requirements of 19.15.17 7.11 NMAC riate requirements of 19. of 19.15.17.12 NMAC puirements of 19.15.17.1 9.15.17.9 NMAC and 19	the box, that the documents are attached NMAC DINMAC 15.17.11 NMAC I NMAC	d.
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable	boxes. Boxes 14 through	18, in regards to the	e proposed closure plan.		
	lergency []Cavitation		ermanent Pit XBelow-g	rade Tank Closed-loop System	
Proposed Closure Method: X Waste Exc Waste Rei	cavation and Removal noval (Closed-loop syste	(Below-Grad	le Tank)		
On-site Cl	osure Method (only for t	emporary pits and a	losed-loop systems)		
r	In-place Burial	On-site Trench			
	e Closure Method (Excer	ptions must be subr	litted to the Santa FelEnu	ironmental Bureau for consideration	
15					
Waste Excavation and Removal Closur Please indicate, by a check mark in the box, in the box, in the box, in the box of the plane indicate, by a check mark in the box, in the plane indicate, by a check mark in the box, in the box of	e Plan Checklist: (19.1) that the documents are at both the appropriate requires the appropriate requires the appropriate requirement with the appropriate requirement appropriate requirement	5.17.13 NMAC) Inst trached. uirements of 19.15. te appropriate requ illing fluids and dr the appropriate re- nts of Subsection 1	ructions: Each of the follo 17.13 NMAC rements of Subsection F Il cuttings) quirements of Subsectior of 19.15.17.13 NMAC	wing items must be attached to the close of 19.15.17.13 NMAC i H of 19.15.17.13 NMAC	ure plan.
X Site Reclamation Plan - based upon	the appropriate require	ments of Subsectio	n G of 19.15.17.13 NMA	IC .	

16								
Waste Removal Closure For Closed-loop Systems That Utilize Al	pove Ground Steel Tanks or Haul-off Bins Only: (19.15.17-13.D NMAC	.)						
are required.	of liquids, drifting fluids and drift cuttings. Use attachment if more than to	vð favilities						
Disposal Facility Name:	Disposal Facility Permit #:							
Disposal Facility Name: Disposal Facility Permit #:								
Will any of the proposed closed-loop system operations and ass Yes (If yes, please provide the information	ociated activities occur on or in areas that will not be used for futur No	e service and operations?						
Required for impacted areas which will not be used for future service	and operations;							
Soil Backfill and Cover Design Specification - based up	on the appropriate requirements of Subsection FL of 19.15.17.13 NM	IAC						
Re-vegetation Plan - based upon the appropriate require	ments of Subsection Lof 19.15.17.13 NMAC							
Site Reclamation Plan - based upon the appropriate requ	irements of Subsection G of 19.15.17.13 NMAC							
17								
Siting Criteria (Regarding on-site closure methods only: 19	0.15.17.10 NMAC							
 instructions: Each siting criteria requires a demonstration of compliance in certain siting criteria may require administrative approval from the appropri 	the closure plan. Recommendations of acceptable source material are provided li unte district office or may be considered on exception which must be colonized to	elow. Requests regarding changes to						
for consideration of approval. Justifications and/or demonstrations of equiv	alency are required. Please refer to 19.15.17.10 NMAC for guidance.	ine santa be Environmental Bureau office						
Ground water is less than 50 feet below the bottom of the buried	d waste.							
 NM Office of the State Engineer - iWATERS database search; 	USGS: Data obtained from nearby wells							
Ground water is between 50 and 100 faul below the bottom of st								
NM Office of the State Engineer - iWATERS database search: 1	ISCS: Data obtained from exact in the	Yes No						
autoria contrate engineer provertienes database search, c	5505. Data obtained from nearby wells	N/A						
Ground water is more than 100 feet below the bottom of the bur	ied waste:	Yes No						
 NM Office of the State Engineer - iWATERS database search; U 	JSGS: Data obtained from nearby wells	N/A						
Within 300 feet of a continuously flowing watercourse, or 200 feet of a (measured from the ordinary high-water mark).	any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No						
 Topographic map: Visual inspection (certification) of the propos 	ed site							
Within 300 feet from a permanent residence, school, hospital, institutio - Visual inspection (certification) of the proposed site: Aerial photo	on, or church in existence at the time of initial application.	Yes No						
		TYES NO						
Within 500 horizontal feet of a private, domestic fresh water well or sp purposes, or within 1000 horizontal fee of any other fresh water well or NMA (Wins of the State United and WATERS to the state well on	ring that less than five households use for domestic or stock watering r spring, in existence at the time of the initial application.							
Within incomposited municipal houndaries or within a defined municipal	spection (certification) of the proposed site							
 written confirmation or verification from the municipality. Written 	an item water well field covered under a municipal ordinance adopted	Yes No						
Within 500 feet of a wetland	approval obtained non-the maneipancy							
- US Fish and Wildlife Wetland Identification map: Topographic n	iap: Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.								
- Written confiramtion or verification or map from the NM EMNRI	D-Mining and Mineral Division							
Within an unstable area.		Yes No						
 Engineering measures incorporated into the design; NM Bureau or Topographic map 	f Geology & Mineral Resources; USGS; NM Geological Society;							
Within a 100-year floodplain.								
- FEMA map								
18								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruct	tions: Each of the following items must bee attached to the closur	re plan. Please indicate.						
by a check mark in the box, that the documents are attached.		•						
Siting Criteria Compliance Demonstrations - based upon the	he appropriate requirements of 19.15.17.10 NMAC							
Proof of Surface Owner Notice - based upon the appropria	te 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 be	urial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC						
Protocols and Procedures - based upon the appropriate requ	uirements of 19.15.17.13 NMAC							
Confirmation Sampling Plan (if applicable) - based upon th	he appropriate requirements of Subsection F of 19.15.17.13 NMAC							
Waste Material Sampling Plan - based upon the appropriate	e requirements of Subsection F of 19.15.17.13 NMAC							
Disposal Facility Name and Permit Number (for liquids, dr	illing fluids and drill cuttings or in case on-site closure standards car	not 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

Dereby certify that the information submitted with this application is true, ace Name (Print):	wate and complete to the best of my knowledge a	nd belief
Name (Print):		and there are a second s
	Title: Regulatory Tec	chnician
Signature:	Date: 12/22/20	08
e-mail address: <u>stor tal store & consceptibles com</u>	Telephone: 505-326-	9837
20 OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Condition	s (see attachment)
OCD Representative Signature:	Annroval	Date
Title:	OCD Permit Number:	Datc.
21 <u>Closure Report (required within 60 days of closure completion):</u> Sub- Instructions: Operators are required to obtain an approved closure plan prior t report is required to be submitted to the division within 60 days of the completi- approved closure plan has been obtained and the closure activities have been co	etion K of 19.15.17.13 NMAC 5 implementing any closure activities and submit n of the closure activities. Please do not complet impleted.	ing the closure report. The closure te this section of the form until an
	Closure Completion Date:	
22 Closure Method:		
Waste Excavation and Removal On-site Closure Method	Alternative Closure Method Waste P	amoval (Cloud loop systems only)
If different from approved plan, please explain,		enovar (Closed-loop systems only)
23		
Closure Report Regarding Waste Removal Closure For Closed-loop System	That Utilize Above Ground Steel Tanks or Ha	ul-off Bins Only;
Instructions: Please identify the facility or facilities for where the liquids, drill were utilized.	ng fluids and drill cuttings were disposed. Use a	attachment if more than two facilities
Disposal Facility Name:	Disposal English Parmis Muschan	
Disposal Facility Name:	Disposal Facility Parmit Number	
Were the closed-loop system operations and associated activities performed c	a or in areas that will not be used for future service	Company and a second se
Yes (If yes, please demonstrate complilane to the items below)	No	ce and opeanions?
Required for impacted areas which will not be used for future service and op	rations:	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
24		
<u>Closure Report Attachment Checklist:</u> Instructions: Each of the follow	ving items must be attached to the closure report	t. Please indicate, by a check mark in
Proof of Closure Notice (surface oumer 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 analisable)		
Waste Material Sampling Analytical Results (if anotical)		
Disposed Engility Name and Description (if applicable)		
Soil Book Gilling and Cours Installadi		
Soil Backing and Cover Installation Revegetation Application Pates and Souding Technique		
Site Reviewed (Photo Desurgentia)		
Site Reclamation (Photo Documentation)		
Un-site Closure Location: Latitude:	Longitude:NAI	D 1927 1983
5		
perator Closure Certification:		
hereby certify that the information and attachments submitted with this closure r te closure complies with all applicable closure requirements and conditions spec	port is ture, accurate and complete to the best of fied in the approved clasure plan	my knowledge and belief. I also certify that
ame (Print):	Title:	
gnature:	Date:	

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New Mexico Office of the State Engineer POD Reports and Downloads										
Тс	wnship: 27N	Range: 07W	Sections:							
NAD	27 X:	Y:	Zone:	Search Radius:						
County:	Bas	in:		Number: Suffix:						
Owner Name: (First)	(Last)		○ Non-Domestic ○ Domestic ● All						
POD / Su	face Data Repo	ort Avg	Depth to Water	Report Water Column Report						
		Clear Form	iWATERS Me	enu Help						
		WATER	COLUMN REPO	RT 12/30/2008						

	(quarter) (quarter)	s are s are	e 1=1 e big	NW gge	2= = st	=NE t to	3=SW 4=SI smalles	己) と)		Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	P	đ	g	Zone	x	Y	Well	Water	Column	
RG 81025	27N	07W	35	4	3	3				560	465	95	
SJ 00195	27N	07W	15	2						1633	500	1133	
SJ 02314	27N	07W	17	3	3					355	320	35	
SJ 02408	27N	07W	21	2	1	3				400	300	100	
SJ 03274	27N	07W	35	3	4	4				450			
SJ 02404	27N	07W	35	4	3	3				550	250	300	

Record Count: 6

-		New Mexico (POD Rej	Office of the Sta ports and Down	<i>te Engineer</i> nloads				
Tov	vnship: 28N	Range: 07W	Sections:					
NAD27	7 X:	Y:	Zone:	Sear	ch Radiu	s:		
County:	Bas	in:		Number:		Suffix:		
Owner Name: (F	irst)	(Last))	🔿 Non-I	Domestic	ODom	estic 🔘	All
POD / Surfa	ace Data Repo	ort Av	g Depth to Water	Report	Wat	er Column	Report	
		Clear Form	iWATERS Me	enu Help]			
		WATE	R COLUMN REPO	RT 12/30/20	08			
	(quarters a	are 1=NW 2=NE are biggest to	3=SW 4=SE) smallest)		Depth	Depth	Water	(in
POD Number SJ 00002	Tws Ru 28N 0	ng Sec q q q 7W 14 1	Zone X	Y	Well 375	Water	Column	,
SJ 03116	28N 0	7W 21 3 3 3			98	20	78	

Record Count: 2





AERIAL MAP SAN JUAN 28-7 UNIT 104



Aerial flown locally Sedgewick in 2005. Wetlands Data Aquired from U.S. Fish and Wildlife Http://wetlandswms.er.usgs.gov USGS Topo

300ft City Limits

1:11,000

0 250 500 1,000 Feet NAD_1983_SP_ NM West_FIPS_ 3003 Aug 26, 2008

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MMQonline Public Version Map Son Juan 28-7 Unit 104









SAN JUAN 28-7 UNIT 104

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-7 UNIT 104', which is located at 36.598121 degrees North latitude and 107.56597 degrees West longitude. This location is located on the Gould Pass 7.5' USGS topographic quadrangle. This location is in section 3 of Township 27 North Range 7 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 15.9 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 36.7 miles to the west (National Atlas). The nearest highway is US Highway 64, located 8.1 miles to the north. The location is on BLM land and is 4,241 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, Sub-basin. This location is located 2039 meters or 6687 feet above sea level and receives 12.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 411 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 841 feet to the south and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 7,863 feet to the northeast. The nearest water body is 7,529 feet to the southeast. It is classified by the USGS as a perennial lake and is 0.4 acres in size. The nearest spring is 1,639 feet to the southeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,077 feet to the southeast. The nearest wetland is a 6.0 acre Ravine located 4,998 feet to the east. The slope at this location is 4 degrees to the southeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION -- Siltstone, shale, and sandstone with a Sandstone dominated formations of all age's substrate. The soil at this location is 'Rock outcrop-Vessilla-Menefee complex, 15 to 45 percent slopes' and is well drained and not hydric with not rated erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 20.7 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:

- 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®

J30, J36 & J45

TEST METHOD	, J	3088	Ja	688	J4588		
	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll	Typical Roll	
	Bla	Black/Black		k/Black	Blac		
ASTM D 5199	27 mil	30 mil	32 mil	36 mil	10 mil	N DIACK	
ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21,74)	168 lbs (24 19)	189 lbs	45 mil	
	**Ext	rusion laminate	d with encapsul		(21.21)	(30.24)	
ASTM D 413	16 lbs	20.15-	a with encapsul		hal scrim reinfo	cement	
	10105	20 105	19 lbs	24 lbs	25 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	750 MD	
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 lbf 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			
ASTM D 4833	50 lbf	64 lbf	CE IL C	-0.5	<1	<0.5	
	4000 5			83 lbf	80 lbf	99 lbf	
	180° F	180° F	180° F	180° F	180° F	180° F	
	-70° F	-70° F	-70° F	-70° F	-70° F	-70° E	
	ASTM D 5199 ASTM D 5261 ASTM D 5261 ASTM D 5261 ASTM D 7003 ASTM D 7003 ASTM D 7003 ASTM D 7003 ASTM D 7004 ASTM D 4533 ASTM D 4833	Image: Heat Metholo Min. Roll Averages Min. Roll Averages Bla 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 7003 550 MD 550 DD ASTM D 7003 20 MD 20 DD ASTM D 7003 20 MD 20 DD ASTM D 5884 75 lbf MD 75 lbf DD ASTM D 7004 180 lbf MD 180 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD ASTM D 1204 <1	IEST METHOD J30BB Min. Roll Averages Typical Roll Averages Black/Black ASTM D 5199 27 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 5261 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 7003 180 lbf MD 75 lbf DD 97 lbf MD 90 lbf DD ASTM D 5884 75 lbf MD 75 lbf DD 97 lbf MD 210 lbf DD ASTM D 4533 120 lbf MD 180 lbf DD 146 lbf MD 141 lbf DD ASTM D 4533 50 lbf 64 lbf ASTM D 4833 50 lbf 64 lbf	TEST METHOD J30BB J3 Min. Roll Averages Min. Roll Averages Min. 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 7003 88 lbf MD 63 lbf DD 110 lbf MD 79 lbf DD 90 lbf MD 70 lbf DD ASTM D 7003 550 MD 550 DD 750 MD 750 DD 550 MD 20 DD ASTM D 7003 20 MD 20 DD 33 MD 20 DD 20 MD 75 lbf DD ASTM D 7004 180 lbf MD 75 lbf DD 75 lbf MD 75 lbf DD 180 lbf MD 180 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD 146 lbf MD 130 lbf MD 130 lbf DD 130 lbf MD 130 lbf DD ASTM D 4833 50 lbf 64 lbf 65 lbf ASTM D 1204 <1	IEST METHOD J30BB J36BB Min. Roll Averages Typical Roll Averages Min. Roll Averages Typical Roll Averages Black/Black Black/Black Black/Black 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 31 DD ASTM D 7003 20 MD 20 DD 33 MD 33 DD 20 MD 20 DD 30 MD 31 DD ASTM D 7004 180 lbf MD 75 lbf DD 97 lbf MD 75 lbf DD 104 lbf MD 223 lbf DD ASTM D 7004 180 lbf MD 120 lbf DD 146 lbf MD 130 lbf DD 122 lbf MD 172 lbf DD ASTM D 4533 120 lbf MD 120 lbf DD 146 lbf MD 130 lbf DD 130 lbf MD 172 lbf DD ASTM D 4833 50 lbf 64 lbf 65 lbf 83 lbf ASTM D 1204	TEST METHOD J30BB J36BB J40rages Min. Roll Averages Merages Black/Black Black Min. Roll Averages Merages Black Black Black Black Black Black Black Black Bl	

DD = Diagonal Direction

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

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

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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 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

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:

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- COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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 100 mg/kg; and the chloride concentration, as determined by EPA method sol.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

12.1

- ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. 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