	District 1	State of New Mexico	Form C-144					
	1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	July 21, 200					
	District II	Department	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.					
	1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.						
	1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	For permanent plts and exceptions submit to the Santa Fe					
2:	District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	a second seco	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office,					
		Pit, Closed-Loop System, Below-Grad	e Tank, or					
	Propos	ed Alternative Method Permit or Closur	e Plan Application					
	Type of action:	X Permit of a pit, closed-loop system, below-grade t	ank, or proposed alternative method					
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method								
Modification to an existing permit								
		Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	tted or non-permitted pit, closed-loop system,					
	Instructions: Please submit one a	pplication (Form C-144) per individual pit, closed-loc	op system, below-grade tank or alternative request					
	Please be advised that approval of	of this request does not relieve the operator of liability should operations r	esult in pollution of surface water, ground water or the					
	environment. Nor does approval rel	eve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.					
	1 Operator: <u>ConocoPhillips Company</u>	y	OGRID#: 217817					
	Address: PO Box 4289, Farmingto	n, NM 87499	<u> </u>					
	Facility or well name: MADDOX V	VN FEDERAL 1						
	API Number:3	0004509529 OCD Permit Number	r:					
	U/L or Qtr/Qtr: <u>H</u> Section: <u>13</u> Township: <u>30N</u> Range: <u>13W</u> County: <u>San Juan</u>							
	Center of Proposed Design: Latitude: 36.8155510°N Longitude: -108.1503510°W NAD: X 1927 1983							
	Surface Owner: X Federal State Private Tribal Trust or Indian Allotment							
	Pit: Subsection F or G of 19.15.17 Temporary: Drilling Word Permanent Emergency Lined Unlined Liner Seams: Welded Fa	7.11 NMAC kover avitation P&A ner type: Thickness mil LLDPE 1 hctory Other Volume:	HDPE PVC Other					
	Closed-loop System: Subsection: Type of Operation: P&A During Red Above Group	on H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to a notice of intent)	activities which require prior approval of a pennit or					
	Lined Unlined Liner Liner Seams: Welded Fa	r type: ThicknessmilLLDPEH.	DPE PVD Other					
	4 X Below-grade tank: Subsection I Volume: 120 bl Tank Construction material:	of 19.15.17.11 NMAC ol 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 Un	natic overflow shut-off					
	Submittal of an exception request is req	uired. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.					
	E	<u>Oil Concernation Division</u>	Page L of 5					

			1					
6 <u>Feucing:</u> 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 (Reanired if located within 1000 feet of a nermanent residence, school, hospital, in	stitution or chan	rch)						
Four foot height, four strands of barbed wire evenly spaced between one and four feet		-						
X Alternate. Please specify 4' hog wire fencing topped with two strands harbed wire.								
7 Nutline 1	nin							
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								
			:					
Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.								
Please check a box if one or more of the following is requested, if not leave blank;								
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Pencing/BGT Liner)	nsideration of ap	proval.						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	<u> </u>							
]					
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 Euvironmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria dws 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	ΧNο						
(Applies to temporary, emergency, or cavitation pits and helow-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)	XNA							
- Visual inspection (certification) or the proposed site; Aerial photo; Satellite image		V						
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.								
- 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						
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						
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo						
	1	ł.						

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<u>remporary Pits, En</u>	<u>rergency Pits and Below-grade Tanks Permit Application Attachment Checklist:</u> Subsection B of 19.15.17.9 NMAC
V Undrogeologia	Parast (Balaw grade Tanka) based your the subjectments of Parastant (d) of Subjection B of 10, 15, 17,0 NMAC
	Data (Tumporary and Functionancy Dite), based upon the requirements of Paragraph (2) of Subsection B of 10.15.17.9 (Write)
V Siting Criteria	Compliance Demonstrations based upon the upperprints requirements of 10.15.17.10 NMAC
	Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - I	nsed 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 (I 19,15,17.9 NN	Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of IAC and 19.15.17.13 NMAC
Previously Approv	ed Design (attach copy of design) API or Permit
12	
Closed-loop Systems	i <u>Permit Application Attachment Checklist:</u> Subsection B of 19.15.17.9 NMAC
Geologic and I	Ivdrogeologic 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
	used upon the appropriate requirements of 19 15 17 11 NMAC
	Anista appropriate requirements of 19, 19, 17, 17, 17, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
	Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (I NMAC and 19	Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 .15.17.13 NMAC
Previously Approv	ed Design (attach copy of design) API
Previously Approv	ed Operating and Maintenance Plan API
Permanent Pits Perr Instructions: Each of th Hydrogeologic Siting Criteria Climatological Certified Engir Dike Protection Leak Detection Liner Specifica Quality Contro Operating and Freeboard and Nuisance or Ha Emergency Res Oil Field Waste Monitoring and Erosion Contro	nit Application Checklist: Subsection B of 19.15.17.9 NMAC is following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Factors Assessment teering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC 1 and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 1 cosign - based upon the appropriate requirements of 19.15.17.11 NMAC 2 contropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 2 cordous Odors, including H2S, Prevention Plan 3 conse Plan 2 Stream Characterization 1 Inspection Plan 1 Plan based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14	
Proposed Closure: Instructions: Please con	19.15.17.13 NMAC nulete the applicable baxes. Roxes 14 through 18, in regards to the proposed closure plan.
	P Contraction Contraction Chick Contraction Chick Contraction Contracticut Contra
Proposed Closure Meth	iod: XWaste Excavation and Removal (Below-Grade Tank)
	waste Removal (Closed-loop systems only)
	Un-site Closure Method (only for temporary pits and closed-loop systems)
	Atternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15	
15 Waste Excavation an	d Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
15 Waste Excavation an Please indicate, by a chu	d Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. eck mark in the box, that the documents are attached.
15 Waste Excavation an Please indicate, by a che X Protocols and P	d Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. eck mark in the box, that the documents are attached. rocedures - based upon the appropriate requirements of 19.15.17.13 NMAC
15 Waste Excavation an Please indicate, by a clu X Protocols and P X Confirmation S X Disposal Facilit	d Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan, eck mark in the box, that the documents are attached. rocedures - based upon the appropriate requirements of 19.15.17.13 NMAC ampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC y Name and Permit Number (for liquids, drilling fluids, and drill cuttings).
15 Waste Excavation an Please indicate, by a cha X Protocols and P X Confirmation S X Disposal Facilit X Soil Backfull an	d Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. eck mark in the box, that the documents are attached. rocedures - based upon the appropriate requirements of 19.15.17.13 NMAC ampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC y Name and Permit Number (for liquids, drilling fluids and drill cuttings) d Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
15 Waste Excavation an Please indicate, by a chine X Protocols and P X Confirmation S X Disposal Facilities X Soil Backfill an X Representation S	d Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. eck mark in the box, that the documents are attached. rocedures - based upon the appropriate requirements of 19.15.17.13 NMAC ampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC y Name and Permit Number (for liquids, drilling fluids and drill cuttings) d Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

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16 <u>Wasto Removal Closure For Closed-loop Systems That Utilize Above Ground Steel</u> Instructions: Please identify the facility or facilities for the disposal of liquids, drifting fly are required.	Canks or <u>Haul-off Bins Only:</u> (19.15.17-13-D NMAC) ads and drill cuttings. Use attachment if more than two fa	ncilities							
Disposal Facility Name:	Disposal Facility Permit #:								
Disposal Facility Name:	Disposal Facility Permit #:	and the part of the second							
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information No	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No								
Required for impacted areas which will um be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMAC on 1 of 19.15.17.13 NMAC action G of 19.15.17.13 NMAC	2 .							
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Rec certain stiing criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications ond/or demonstrations of equivalency are required.	annuendations of acceptable source material are provided below nay be considered an exception which unist be submitted to the s Please refer to 19.15.17.10 NMAC for guidance.	w. Requests regarding changes to Sunta Fe Environmental Burean office							
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No							
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ed from nearby wells								
Ground water is between 50 and 100 feet below the bottom of the buried waste									
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	d from nearby wells								
Ground water is more than 100 feet below the bottom of the buried waste									
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtaine	d from nearby wells								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significan (measured from the ordinary high-water mark).	it watercourse or lakebed, sinkhole, or playa lake	Yes No							
- Topographic map; Visual inspection (certification) of the proposed site									
 Within 300 feet from a permanent residence, school, hospital, institution, or church in exit Visual inspection (certification) of the proposed site; Aerial photo; satellite image 	stence at the time of mitial application.								
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than b purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existent - NM Office of the State Engineer - iWATERS database; Visual inspection (certificati	ive households use for domestic or stock watering ce at the time of the initial application. ion) of the proposed site								
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978. Section 3-27-3, as amended.	Field covered under a municipal ordinance adopted	Yes No							
 Written confirmation or verification from the municipality; Written approval obtain Within 500 feet of a wetland 	ed from the municipality								
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspect 	ion (certification) of the proposed site								
Within the area overlying a subsurface mine.		Yes No							
Written confiramtion or verification or map from the NM EMNRD-Mining and Min	eral Division								
Engineering measures incorporated into the design; NM Bureau of Geology & Mine Tonographic map	ral Resources; USGS; NM Geological Society;								
Within a 100-year floodplain, - FEMA map		Yes No							
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	plan. Please indicate,							
Siting Criteria Compliance Demonstrations - based upon the appropriate re	equirements of 19.15.17.10 NMAC								
Proof of Surface Owner Notice - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NMAC								
Construction/Design Plan of Burial Trench (if applicable) based upon the a	appropriate requirements of 19.15.17.11 NMAC								
Construction/Design Plan of Temporary Pit (for in place burial of a drying	pad) - based upon the appropriate requirements of 19	.15.17.11 NMAC							
Protocols and Procedures - based upon the appropriate requirements of 19.	15.17.13 NMAC								
Confirmation Sampling Plan (if applicable) - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC								
Waste Material Sampling Plan - based upon the appropriate requirements of	of Subsection F of 19.15.17.13 NMAC								

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

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

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

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

Name (Print)	simation summitted with this application is lide, as	contate and complete to the be	st or my knowledge and bench.
	Crystal Tafoya	1'itle:	Regulatory Technician
Signature:	Constal John	<u>▶</u> Date:	12/22/2008
e-mail address:	crystal, tafoya@conecophillips.cdm	Telephone:	505-326-9837
•	n an	<u>, </u>	ta an an an Anna an Ann
DCD Approval: P	ermit Application (including clo ure plan)	Closure Plan (only)	OCD Conditions (see attachment)
()(')) Permenuntative Si	anatumat	and p	
AD Representative SI	gnature:	Th	Approval Date: <u>07/14/2016</u>
l'itle: Hydrologi	st	OCD Permit	Number:
!] Nacuro Ronart (roquir	ad within 60 days of closure completion);	Annal K fin K 1717 NAAO	、
nstructions: Operators are	required to obtain an approved closure plan prio	or to implementing any closure	activities and submitting the closure report. The closure
eport is required to be sub	mitted to the division within 60 days of the complete	etion of the closure activities.	Please do not complete this section of the form until an
proven closure plan nus l	acti vantineti una me chamite activities nave been		Completion Date:
<u>22</u>			
<u>Natio Execution</u>		Allemative Closure M	athod Waste Removal (Closed loop systems only)
If different from an			
	noved plan, please explain.		
] Jacure Report Posardine	Worte Demoval Closure Re- Closed-lean Surf	eme That Litiliza Abova C-av	nd Steel Tonke or Houl of Rins Only
istructions: Please identif	y the facility or facilities for where the liquids, d	rilling fluids and drill cutting	s were disposed. Use attachment if more than two facilities
ere utilized.			
Disposal Facility Name:		Disposal Facility Pe	rmit Number:
Disposal Facility Name:		Disposal Facility Pe	rmit Number:
Were inc closed-loop sy	arem operations and associated activities performed	$\square N_0$	e used for riture service and opeanions?
Required for innacted a	reas which will not be used for future service and	onerations:	
Site Reclamation (P	hoto Documentation)	oper (() () () () () () () () ()	
Soil Backfilling and	Cover Installotion		
Re-vegetation Appli	cation Rates and Seeding Technique		
14			
<u>Closure Report Attac</u> the bur, that the docum	<u>:hment Checklist:</u> Instructions: Each of the fo	llowing items must be attache	ed to the closure report. Please indicate, by a check mark in
Proof of Closure N	lotice (surface owner and division)		
Proof of Deed Not	ice (required for on-site closure)		ĺ
	ite closures and temporary pits)		
Plot Plan (for on-s	pling Analytical Results (if applicable)		
Confirmation Sam			
Plot Plan (for on-s Confirmation Sam Waste Material Sa	mpling Analytical Results (if applicable)		
Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N	mpling Analytical Results (if applicable) fame and Permit Number		
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	mpling Analytical Results (if applicable) fame and Permit Number d Cover Installation dication Rates and Seeding Technique Photo Documentation) xcation: Latitude: <u>ication:</u> mation and attachments submitted with this closure typplicable closure requirements and conditions :	Longitude: 	NAD 1927 1983
	mpling Analytical Results (if applicable) fame and Permit Number d Cover Installation dication Rates and Seeding Technique Photo Documentation) xcation: Latitude: <u>leation:</u> mation and attachments submitted with this closu upplicable closure requirements and conditions :	Longitude: ire report is ture, accurate and specified in the approved closu Tille:	NAD [1927 [1983 complete to the best of my knowledge and belief. I also certify that re plun.
	mpling Analytical Results (if applicable) (ame and Permit Number d Cover Installation dication Rates and Seeding Technique Photo Documentation) xcation: Latitude:	Longitude: tre report is ture, accurate and specified in the approved closu Tille: Date:	NAD 1927 1983

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, No	ew Mexico Office of the S POD Reports and Do	<i>tate Engineer</i> wnloads
Township: 30N R	ange: 13W Sections:	
NAD27 X:	Y: Zone:	Search Radius:
County: Basin:		Number: Suffix:
Owner Name: (First)	(Last)	C Non-Domestic C Domestic C All
POD / Sulface Data Report	Avg Depth to Wa	ter Report Water Column Report
ंट	Vear Form WATERS	Menu Help

WATER COLUMN REPORT 08/21/2008

(สม	arter	в are	a 1=1	NW	2=	NE	3= SW 4 =8	E)					
(ຊາມ	arter	s are	e big	gge	st	to	smalles	t)		Depth	Depth	Water	(in
POD Mumber	Tws	Rng	Sec	T	T	T	Zone	x	Y	Well	Water	Column	
RG 22431	30N	13W	30	2						100	45	55	
5J 01344	30N	13W	01	4	1	2				42	27	15	
SJ 03283	30N	13W	05	2	4	2				20	8	12	
SJ 00132	3 O N	13W	05	3	4	4				100	46	- 54	
SJ 01101	30N	13W	80	1						41	26	15	
SJ 03326	3 O N	13W	80	1	3	3				55	30	25	
<u>SJ 00328</u>	3 O N	13W	80	2					-	33	-21	12	
SJ 02268	3 ON	13W	80	2						30	21	9	•
<u>SJ 01463</u>	30N	13W	80	2						52	30	22	
SJ 00877	30N	13W	80	2						60	30	30	
SJ 00293	3 O N	13W	80	2						50	30	20	
SJ 00855	30N	13W	80	2	1.					50	25	25	
SJ 01068	30N	13W	80	2	1					53	28	25	
SJ 02326	30N	13W	80	2	1	3				42	35	7	
SJ 02735	3 O N	13W	80	2	3	4				43	23	20	
SJ 00587	30N	13W	80	3	4	2				72	48	24	
SJ_03195	30N	13W	80	4	1	1				60	35	25	
<u>SJ 033</u> 28	30N	13W	80	4	1	1				60			
<u>SJ 03196</u>	30N	13W	80	4	1	2				41	20	21	
SJ 03160	30N	13W	80	4	1	4				60	8	52	
SJ 00374	30N	13W	80	4	2						56		
SJ 02919	30N	13W	80	4	3	4				45			
SJ_02397	30N	13W	80	4	4					31	15	16	
SJ 02396	30N	13W	80	4	4					30	10	20	
SJ 02823	30N	13W	80	4	4	3				40			
SJ 02787	30N	13W	09	1	3	1				235	140	95	
SJ 00818	30N	13W	09	3	1					130	32	98	
SJ 02725	30N	13W	09	3	1	1				110	100	10	
SJ 02647	30N	13W	11	4	3	4				76	58	18	
SJ 02943	30N	13W	17	2	1	2				60			
SJ 03029	30N	13W	17	2	2	1				65	45	20	
SJ 03017	30N	13W	17	2	4	2				37	20	17	

SJ 02574	30 n	13W 17	244
SJ 01736		13W 26	1 4 7
SJ 01119		13W 26	1 4 4
<u>8J 01454</u>		13W 26	3 1 1
SJ 01117		13W 26	374
<u>SJ 02225</u>		13W 26	327
SJ 01895		13W 26	324
SJ 01181		13W 26	333
SJ 01503	30N	13W 26	422
SJ 02674		13W 27	344
SJ 00992		13W 28	211
SJ 00992 CLW303071		13W 28	212
SJ 00868		13W 29	2
SJ 00262	30N	13W 29	2
SJ 01357	30N	13W 29	22
SJ 01040	30N	13W 29	22
SJ 03046	30N	13W 29	224
SJ_01502	30N	13W 29	4
SJ 00448	30N	13W 29	4
SJ_00215	30N	13W 29	4 3
SJ 02159	3 O N	13W 29	4 3
SJ_02754	30N	13W 29	444
SJ 00467	30N	13W 30	44
SJ 01150	30N	13W 32	14
SJ 00156	30N	13W 32	3
BJ 00217	30N	13W 32	3
SJ 01359	30N	13W 32	31
5J 02391	30N	13W 35	1 1 1

26	9	17
332	300	3.2
370	300	() ()
400	350	50
360	300	50
339	300	39
370	250	220
257	230	27
310	260	50
270	250	20
624	306	318
624	306	318
49	25	24
38	25	13
71	56	15
49	20	29
80	30	50
47	20	27
45	20	25
55	35	20
40	15	25
65	65	
36	21	15
37	16	21
44	18	26
40	10	30
25	10	15
260	200	6 0

Record Count: 60



ConocoPhillips

AERIAL MAP MADDOX WN FED WELL 1 DK



Mines, Mills and Quarries Web Map

MADDOX WN FED WELL 1 DK Unit Letter: , Section: 13, Town: 30N, Range: 13W



MADDOX WN FED WELL 1DK

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MADDOX WN FED WELL 1 DK', which is located at 36.815551 degrees North latitude and 108.150351 degrees West longitude. This location is located on the Farmington North 7.5' USGS topographic quadrangle. This location is in section 13 of Township 30 North Range 13 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Flora Vista, located 6.1 miles to the east. The nearest large town (population greater than 10,000) is Farmington, located 6.4 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 2.9 miles to the southeast. The location is on BLM land and is 754 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Middle San Juan. Arizona, Colorado, New Mexico, Sub-basin. This location is located 1810 meters or 5936 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 343 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 602 feet to the north and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,395 feet to the northwest. The nearest water body is named Basin Tank and is 6,766 feet to the northeast. It is classified by the USGS as an intermittent lake and is 1.8 acres in size. The nearest spring is 8,938 feet to the west. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2,074 feet to the southeast. The nearest wetland is a 0.5 acre Other located 10,991 feet to the southeast. The slope at this location is 5 degrees to the west 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 NACIMIENTO FORMATION --- Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 8.2 miles to the northwest as indicated on the Mines. Mills and Quarries Map of New Mexico provided.

Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, eastcentral San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

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.

PROPERTIES	TEST METHOD		088	336 - J36	88	J45	BE
		Min. Roll Averages	Typical Roll Averages	Min. Rolf Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Blac	k/Black	Black	Black	Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinfor	cement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1* Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbfDD	90 lbf MD 70 lbf DD	113 lbfMD 87 lbf DD	1 10 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 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20MD 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 /bf MD 180 lbfDD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	2221bfMD 2231bfDD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trap e zold Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 /bfMD 130 /bf DD	189 lbf MD 172 lbfDD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction

DD = Diagonal Directions

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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

SALES OFFICE

Sioux Falls, South Dakota

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. These dates will be updated prior to December 31, 2008.

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

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

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

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

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

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

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

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTI'S HAT APPLIES TO THE MATERIALS REFERED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

ConocoPhillips Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- 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.

11/7/2008

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; 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 8021 B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; and the chloride concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 250 mg/kg; 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 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.
- 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 belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice