<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 State of New Mexico Energy Minerals and Natural Resources Form C-144 July 21, 2008

1301 W Grand Ave , Artesia, NM 88210

District III

 $1000\ Rio\ Biazos\ Rd$  , Aztec, NM  $\ 87410$ 

District IV 1220 S St. Francis Dr., Santa Fe, NM 87505 Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

# Pit, Closed-Loop System, Below-Grade Tank, or

Proposed Alternative Method	Permit or Closure Plan Application				
Type of action:  X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method					
Instructions: Please submit one application (Form C-144) per indi	ividual pit, closed-loop system, below-grade tank or alternative request				
environment Nor does approval relieve the operator of its responsibility to comp	liability should operations result in pollution of surface water, ground water or the ly with any other applicable governmental authority's rules, regulations or ordinances				
1 Operator: ConocoPhillips Company	OGRID# <u>217817</u>				
Address PO Box 4289, Farmington, NM 87499					
Facility or well name Tribal 4					
API Number 30-039-20560	OCD Permit Number				
U/L or Qtr/Qtr         E(SW/NW)         Section         16         Township         26 N           Center of Proposed Design         Latitude         36.488861         °N           Surface Owner         Federal         State         Private         X	Range 3W County. Rio Arriba  Longitude 107.15566 °W NAD. X 1927 1983  Tribal Trust or Indian Allotment				
Pit: Subsection F or G of 19 15 17 11 NMAC  Temporary Drilling Workover  Permanent Emergency Cavitation P&A  Lined Unlined Liner type Thickness n  String-Reinforced  Liner Seams Welded Factory Other	nıl LLDPE HDPE PVC Other  Volume bbl Dimensions L x W x D				
X Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation X P&A Drilling a new well Workove notice of	r or Drilling (Applies to activities which require prior approval of a permit or intent)				
Drying Pad X Above Ground Steel Tanks Haul-off Bins Lined Unlined Liner type Thickness mi Liner Scams Welded Factory Other	- BECT:				
	iner, 6-inch lift and automatic overflow shut-off				
5	VC Other				
Alternative Method:  Submittal of an exception request is required Exceptions must be submitted	to the Santa Fe Environmental Bureau office for consideration of approval				

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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 residence, school, hospital, institution or chinch)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify				
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)				
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:  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:  Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.  Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	proval		
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 - 1WATERS database search, USGS, Data obtained from nearby wells	Yes	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	□No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	Yes NA	□No		
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	Yes NA	No		
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	No		
- 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	□No		
<ul> <li>Written confirmation or verification from the municipality, Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site</li> </ul>	Yes	No		
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division  Within an area blooms.	Yes	∐No □No		
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design, NM Bureau of Geology &amp; Mineral Resources, USGS, NM Geological Society, Topographic map</li> </ul>	Yes	☐		
Within a 100-year floodplain - FEMA map	∐ Yes	∐No		

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 must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.				
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				
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC				
Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC				
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC				
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC				
Previously Approved Design (attach copy of design)  APIor Permit				
12				
Closed-loop Systems Permit Application Attachment Checklist:  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				
X Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC				
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC				
NMAC and 19 15 17 13 NMAC				
Previously Approved Design (attach copy of design)  API				
Previously Approved Operating and Maintenance Plan API				
13				
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC				
Instructions Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.				
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15 17 9 NMAC				
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC				
Climatological Factors Assessment				
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC				
Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19 15 17 11 NMAC				
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC				
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC				
Quality Control/Quality Assurance Construction and Installation Plan				
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC				
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC				
Nuisance or Hazardous Odors, including H2S, Prevention Plan				
Emergency Response Plan				
Oil Field Waste Stream Characterization				
Monitoring and Inspection Plan				
Erosion Control Plan				
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC				
14				
Proposed Closure: 19 15 17 13 NMAC				
Instructions Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.				
Type Drilling Workover Emergency Cavitation XP&A Permanent Pit Below-grade Tank X Closed-loop System				
Alternative				
Proposed Closure Method Waste Excavation and Removal				
TVIV. at Demond (Classification)				
X Waste Removal (Closed-loop systems only)				
On-site Closure Method (only for temporary pits and closed-loop systems)				
On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench				
On-site Closure Method (only for temporary pits and closed-loop systems)				
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)				
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)				
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)  Maste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan				
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)  Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan Please indicate, by a check mark in the box, that the documents are attached.				
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)  Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC				
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)  Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC				
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)  Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)				

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16 West Personal Classes For Charles Code That Halls About Consul Start	T-ulu - H-ul -ff D-us Os	L., (10.15.17.12 D.ND.(A.C.)			
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions Please identify the facility or facilities for the disposal of liquids, drilling facilities are required					
Disposal Facility Name Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	10B		
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #	NM-01-005			
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  Yes (If yes, please provide the information  No					
Required for impacted areas which will not be used for future service and operations  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19 15 17 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					
17					
Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC  Instructions Each siting criteria requires a demonstration of compliance in the closure plan—Recommendations of acceptable source material are provided 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 Fé Environmental Bureau office for consideration of approval—Justifications and/or demonstrations of equivalency are required—Please refer to 19 15 17 10 NMAC for guidance					
Ground water is less than 50 feet below the bottom of the buried waste			Yes No		
- NM Office of the State Engineer - IWATERS database search, USGS Data obta	ned from nearby wells		∐N/A		
Ground water is between 50 and 100 feet below the bottom of the buried waste			Yes No		
- NM Office of the State Engineer - (WATERS database search, USGS, Data obtain	ned 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 - 1WATERS database search, USGS, Data obtain	ned from nearby wells		□N/A		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signification (measured from the ordinary high-water mark)	ant watercourse or lakebed, su	nkhole, 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 ex-Visual inspection (certification) of the proposed site, Aerial photo, satellite image	distence at the time of initial a	pplication	Yes No		
			Yes No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less that purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existe - NM Office of the State Engineer - iWATERS database, Visual inspection (certific	nce at the time of the initial ap				
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended		pal ordinance adopted	Yes No		
<ul> <li>Written confirmation or verification from the municipality, Written approval obtain Within 500 feet of a wetland</li> </ul>	ned from the municipality		∏Yes ∏No		
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspe	ction (certification) of the pro-	posed site			
Within the area overlying a subsurface mine			Yes No		
- Written confirantion or verification or map from the NM EMNRD-Mining and Mi	neral Division				
Within an unstable area	LD LIGOR NAME	2.115	∐Yes ∐No		
<ul> <li>Engineering measures incorporated into the design, NM Bureau of Geology &amp; Min Topographic map</li> </ul>	ierai Resources, USGS, NM	Jeological Society,			
Within a 100-year floodplain - FEMA map			Yes No		
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.					
	requirements of 19 15 17	10 NMAC			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC					
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC					
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC					
Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC					
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC					
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC					
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)					
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC					
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC					

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Operator Application Certification:  Thereby certify that the information submitted with this application:	is true, accurate and complete to the best of my knowledge and belief
Name (Print) CRYSTAL TAFOYA	Title STAFF REGULATORY TECHNICIAN
Signature Signature	ya Date 8/5/11
e-mail address <u>crystal tafoya@conocoph</u> lips d	<u>6m</u> Telephone (505) 3∕26-9837
20 OCD Approval: Permit Application (including closure OCD Representative Signature:	plan) Closure Plan (only) CCD Conditions (see attachment)  Approval Date: X/X/2011
Title: Compliance Officer	OCD Permit Number:
	plan prior to implementing any closure activities and submitting the closure report. The closure the completion of the closure activities. Please do not complete this section of the form until an
22	
Closure Method:  Waste Excavation and Removal  If different from approved plan, please explain	e Method Alternative Closure Method Waste Removal (Closed-loop systems only)
23	
Instructions Please identify the facility or facilities for where the	loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
were utilized Disposal Facility Name	Disposal Facility Permit Number
Disposal Facility Name	Disposal Facility Permit Number
	performed on or in areas that will not be used for future service and opeartions?
Yes (If yes, please demonstrate compliane to the items belo	· _
Required for impacted areas which will not be used for future se	· —
Site Reclamation (Photo Documentation)	rrice and operations
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24	
	ch of the following items must be attached to the closure report Please indicate, by a check mark in
the box, that the documents are attached.	
Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	le)
Waste Material Sampling Analytical Results (if applica	able)
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Techniq	ue
Site Reclamation (Photo Documentation)	
On-site Closure Location Latitude	LongitudeNAD
25	
Operator Closure Certification:  I hereby certify that the information and attachments submitted with the closure complies with all applicable closure requirements and c	h this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
Name (Print)	Title
Signature	Date
a mail addrass	Talanhone

Form C-144 Oil Conservation Division

## ConocoPhillips Company Closed-loop Plans

#### Closed-loop Design Plan

COPC's closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will include an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1. Fencing is not required for an above ground closed-loop system
- 2. It will be signed in compliance with 19.15.3.103 NMAC
- 3. A frac tank will be on location to store fresh water

#### **Closed-loop Operating and Maintenance Plan**

COPC's closed-loop tank will be operated and maintained to contain liquids and solids in order to prevent contamination of fresh water sources, in order to protect public health and the environment. To ensure the operation is maintained the following steps will be followed:

- 1. The liquids will be vacuumed out and disposed of at the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) on a periodic basis to prevent over topping.
- 2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
- 3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately

### **Closed-loop Closure Plan**

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.