#### District I

1625 N French Dr., Hobbs, NM 88240

1301 W. Grand Ave , Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

## State of New Mexico Energy Minerals and Natural Resources

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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Burcau office and provide a copy to the appropriate NMOCD District Office

1220 S. St, Francis Dr, Santa Fe, NM 87505
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 individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: ConocoPhillips Company OGRID#: 217817
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: Federal 2
API Number: 30-045-08703 OCD Permit Number:
U/L or Qtr/Qtr: I (NESE) Section: 1 Township: 29N Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.751831'N Longitude: 107.936730'W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
2
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
3
X Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well X Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad X Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other
Liner Seams: Welded Factory Other
A RECEIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume: bbl Type of fluid:   Construction material:   Construction
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner   Visible sidewalls only   Other     Liner Type: Thickness   mil   HDPE   PVC   Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume:   bbl   Type of fluid:   Tank Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off   Visible sidewalls and liner   Visible sidewalls only   Other   Liner Type: Thickness   mil   HDPE   PVC   Other
5 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental 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 residence, school, hospital, institution or church)  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					
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  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).	☐Yes ☐Yes	□No			
- Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	□No			
(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.	∐NA ∐Yes	No			
<ul> <li>(Applied to permanent puts)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> </ul>	∐NA ∐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  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	No			
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	☐Yes ☐Yes	□No □No			
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mmeral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain  - FEMA map	∐Yes ☐ Yes	∐No ∏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.    Highway along Parent (Paley), and a Tarky)   beyond your the application and the property of Parenty (A) of Subsection P. of 10.15.17.0 NIMAC.					
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) API or Permit					
12					
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					
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					
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  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   <u>Proposed Closure:</u> 19.15.17.13 NMAC					
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.					
Type: Drilling X Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank X Closed-loop System  Alternative					
Proposed Closure Method: Waste Excavation and Removal					
X 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)					
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)  Soil Backfill and Cover Design Specifications - 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					
The state of the s					

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste	el Tanks or Haul-off Bins Only	y: (19.15.17.13 D NMAC)				
Instructions Please identify the facility or facilities for the disposal of liquids, drilling are required			cilities			
Disposal Facility Name Envirotech	Disposal Facility Permit #	NM-01-0011				
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 operations?  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 string 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 Fe 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.  - NM Office of the State Engineer - iWATERS database search, USGS Data obt.	ained from nearby wells		Yes N/A	No		
Ground water is between 50 and 100 feet below the bottom of the buried waste	2		Yes	No		
- NM Office of the State Engineer - iWATERS database search; USGS, Data obta	nned 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 obta	nined from nearby wells		N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).				No		
- Topographic map, Visual inspection (certification) of the proposed site			□vas	□N <sub>0</sub>		
Within 300 feet from a permanent residence, school, hospital, institution, or church in  - Visual inspection (certification) of the proposed site; Aerial photo; satellite image		pplication.	∐Yes ∏ves	∐No □		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted						
pursuant to NMSA 1978, Section 3-27-3, as amended						
Written confirmation or verification from the municipality, Written approval obt     Within 500 feet of a wetland     US Fish and Wildlife Wetland Identification map; Topographic map; Visual inst		posed site	Yes	□No		
Within the area overlying a subsurface mine.		No				
- Written confiramtion or verification or map from the NM EMNRD-Mining and I	Mineral Division					
Within an unstable area  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;  Topographic map		No				
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.						
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 Plan - based upon t						
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

19 Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate and	complete to the best of my knowledge and belief.				
Name (Print): Jamie Goodwin T	itle Regulatory Technician				
Signature / Mmulzadwu I	pate				
e-mail address / Jamie.L Goodwin@conocophillips.com Te	lephone 505-326-9784				
20 OCD Approval: Permit Application (including closure plan). Closu	re Plan (only) OCD Conditions (see attachment)				
OCD Representative Signature:	Approval Date: 8-13-09				
Title: Enviro /spec	OCD Permit Number:				
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date:					
22					
Closure Method:					
Waste Excavation and Removal On-site Closure Method Alte	mative Closure Method Waste Removal (Closed-loop systems only)				
If different from approved plan, please explain					
23					
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That U					
Instructions: Please identify the facility or facilities for where the liquids, drilling fluid were utilized.	s and ariii cuitings were disposed. Use attachment if more than two facilities				
Disposal Facility Name:	Disposal Facility Permit Number:				
Disposal Facility Name	Disposal Facility Permit Number				
Were the closed-loop system operations and associated activities performed on or in a	reas that will not be used for future service and operations?				
Yes (If yes, please demonstrate compliane to the items below)					
Required for impacted areas which will not be used for future service and operations.  Site Reclamation (Photo Documentation)					
Soil Backfilling and Cover Installation					
Re-vegetation Application Rates and Seeding Technique					
24					
Closure Report Attachment Checklist: Instructions: Each of the following ite	ms must be attached to the closure report. Please indicate, by a check mark in				
the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)					
Proof of Deed Notice (required for on-site closure)					
Plot Plan (for on-site closures and temporary pits)					
Confirmation Sampling Analytical Results (if applicable)					
Waste Material Sampling Analytical Results (if applicable)					
Disposal Facility Name and Permit Number					
Soil Backfilling and Cover Installation					
Re-vegetation Application Rates and Seeding Technique					
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude: Lon	situde. NAD 1007 1002				
On-site Closure Location: Latitude:Lon	gitude:NAD				
25					
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is					
the closure complies with all applicable closure requirements and conditions specified in Name (Print)	the approved closure plan.  Title				
Signature.	Date:				
	'elephone:				

# 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). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) 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
- 4. All of the above operations will be inspected and a log will be signed and dated. During rig operations the inspection will be daily.

#### **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) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005). 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.