## District I

1625 N French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

District IV

### 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 Bureau office and provide a copy to the proprieta 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 individual pit, closed-loop system, below-grade tank or alternative red	uest
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 RCVD JUN 30 'O	}
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: San Juan 31-6 Unit 36E DIST. 3	
API Number: 30-039-25136 OCD Permit Number:	
U/L or Qtr/Qtr: I(NESE) Section: 27 Township: 31N Range: 6W County: Rio Arriba	
Center of Proposed Design: Latitude: 36.867400'N Longitude: 107.443490'W NAD: X 1927	983
Surface Owner: X Federal State Private 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 mil LLDPE HDPE PVC Other  String-Reinforced  Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D	
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 on notice of intent)    Drying Pad X Above Ground Steel Tanks	or.
Liner Seams: Welded Factory 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	

**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 ptt, 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.	deration of app	лочаі.		
Siting Criteria (regarding permitting) 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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	□No		
<ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐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  Written confirmation or verification from the municipality. Written approval obtained from the municipality.	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> <li>Within the area overlying a subsurface mine.</li> </ul>	☐ Yes	□No		
<ul> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> </ul>	Yes	□No		
Society; Topographic map  Within a 100-year floodplain  - FEMA map	Yes	No		

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment ChecklistSubsection 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						
String 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 Clarable Sent Device Advisor Advisor Advisor Device Clarable Sent Device Towns						
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9						
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15.17.10 NMAC						
Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC						
X 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						
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 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)						
Arternative Crosure Method (Exceptions must be submitted to the Santa Fe Environmental Dureau for consideration)						
15						
Waste Excavation and Removal Closure Plan Checklist (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.						
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.						
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						
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						
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)						
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						
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 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee	I Tanks or Haul-off Bins Only:(19.15 17.13.D NMAC)				
Instructions Please identify the facility or facilities for the disposal of liquids, drilling facilities are required.					
	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 nbe 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					
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 Reccertain siting criteria may require administrative approval from the appropriate district office or no office for consideration of approval Justifications and/or demonstrations of equivalency are required.	ommendations of acceptable source material are provided below nay be considered an exception which must be submitted to the Sai				
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	ined from nearby wells	∐N/A			
Ground water is between 50 and 100 feet below the bottom of the buried waste	e	Yes No			
- NM Office of the State Engineer - 1WATERS 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 - iWATERS 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 signific (measured from the ordinary high-water mark)	ant 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 e - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	xistence at the time of initial application.	∐Yes ∐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 pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written approval obta		Yes No			
Within 500 feet of a wetland		Yes No			
<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspe Within the area overlying a subsurface mine.</li> </ul>	ection (certification) of the proposed site	Tyes TNo			
- Written confiramtion or verification or map from the NM EMNRD-Mining and M	ineral Division				
Within an unstable area Engineering measures incorporated into the design, NM Bureau of Geology & Mt	neral Resources, USGS; NM Geological Society;	Yes No			
Topographic map Within a 100-year floodplain FEMA map		Yes No			
18					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closs	ure plan. Please indicate,			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC					
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC					
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 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 Subsec	-	. camer or acmoroup			
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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19					
Operator Application	Certification:				
I hereby certify that the in	nformation submitted with this application is true, accu	rate and complete to the bes	st of my knowledge and belief.		
Name (Print):	Kelly-Jeffery —	Title:	Regulatory Technician		
Signature:		Date:	6-29-09		
e-mail address:	jeffekr@conocophil#ps.com	Telephone.	505-599-4025		
20					
_	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)		
OCD Representative	Signature: Bal Skill		Approval Date: 7-7-09		
Title:	Enviro /spec	OCD Perm	it Number:		
21					
	ired within 60 days of closure completion): Sure required to obtain an approved closure play prior				
			activities and submitting the closure report The closure Please do not complete this section of the form until an		
t ·	s been obtained and the closure activities have been c				
		Closure	Completion Date:		
Closura Mathada					
Closure Method:	and Donald And L		4 d 1		
Waste Excavation		Alternative Closure	Method Waste Removal (Closed-loop systems only)		
If different from a	approved plan, please explain.				
23					
Closure Report Regardi	ng Waste Removal Closure For Closed-loop System	ns That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only:		
	tify the facility or facilities for where the liquids, dril	lling fluids and drill cuttings	s were disposed. Use attachment if more than two facilities		
were utilized.		Diamond Facility	Domest Number		
Disposal Facility Nam	***************************************	_ Disposal Facility l			
Disposal Facility Nam		Disposal Facility I			
_	system operations and associated activities performed e demonstrate complilane to the items below)	No	be used for future service and opeartions?		
		_			
	l areas which will not be used for future service and of (Photo Documentation)	perations			
=	and Cover Installation				
	oplication Rates and Seeding Technique				
Re-vegetation Ap	pheaton Rates and Seeding Technique				
Clasura Danaut At	to show out Charlifots I was also E. J. Cd. C	#. * *	t to the second second second		
the box, that the docu		llowing items must be attaci	hed to the closure report. Please indicate, by a check mark in		
l — ´	e Notice (surface owner and division)				
Ϊ	Notice (required for on-site closure)				
	n-site closures and temporary pits)				
1 =	ampling Analytical Results (if applicable)				
ı ==	Sampling Analytical Results (if applicable)				
🛏	ty Name and Permit Number				
l 😕 :	*				
· =	gand Cover Installation Application Rates and Seeding Technique				
I = -					
	on (Photo Documentation)	Longitude	NAD [ 1027 [ 1092		
On-site Closure	Location: Latitude:	Longitude:	NAD   1927   1983		
Operator Closure Co	rtification:				
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that					
,	yormation and attachments shomhed with this closur all applicable closure requirements and conditions sp	•	· · · · · · · · · · · · · · · · · · ·		
	,	•••	•		
Name (Print):		Title:			
Signature		Date:			
e-mail address:		Telephone:			

# **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.