<u>District I</u> 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

1220 S St Francis Dr , Santa Fe, NM 87505		appropriate NMOCD Di	istrict Office
	Pit, Closed-Loop System		
. KO Prop	osed Alternative Method I	Permit or Closure Plan Applic	<u>cation</u>
Type of action	Closure of a pit, closed-loop sy  Modification to an existing per	r an existing permitted or non-permitted p	rnative method
Instructions · Plaasa submit ona /		dual pit, closed-loop system, below-grad	le tank or alternative request
Please be advised that approval	of this request does not relieve the operator of ha	ability should operations result in pollution of surface with any other applicable governmental authority's rule	water, ground water or the
Operator <u>ConocoPhillips Compan</u>	ny	OGRID#· <b>217817</b>	
Address. PO Box 4289, Farmington	on, NM 87499		
Facility or well name. San Juan 28	1-7 Unit 155G		
API Number3	30-039-26929	OCD Permit Number	
U/L or Qtr/Qtr. E(SW/NW) Section  Center of Proposed Design Latitude  Surface Owner: X Federal	e· 36.562528 °N	Range. 7W County. R Longitude 107.567939 ° ribal Trust or Indian Allotment	io Arriba W NAD: X 1927 1983
String-Reinforced	rkover	LLDPE HDPE PVC O	RCVD FEB 23 '12  OIL CONS. DIV.  Otherxwxd
Type of Operation P&A  Drying Pad X Above Grou  Lined Unlined Line	ction H of 19 15 17 11 NMAC  Drilling a new well X Workover o notice of intuined Steel Tanks Haul-off Bins er type Thickness mil	Other	
4  Below-grade tank: Subsection  Volume  Tank Construction material  Secondary containment with leak de  Visible sidewalls and liner  Liner Type  Thickness	etection Visible sidewalls, line	er, 6-inch lift and automatic overflow shut-off ther	
5  Alternative Method:  Submittal of an exception request is rec	quired Exceptions must be submitted to	the Santa Fe Environmental Burcau 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  (Fencing/BGT Liner)  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 string criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain string 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. String criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.			
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - IWATERS database search, USGS, Data obtained from nearby wells	Yes 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.	Yes No		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	□NA		
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 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		
<ul> <li>NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site</li> <li>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</li> <li>Written confirmation or verification from the municipality, Written approval obtained from the municipality</li> </ul>	∏Yes ∏No,		
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	Yes No		
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes No		
Within an unstable area.  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	Yes No		
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) API or Permit		
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC  Instructions Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC  Design Plan - based upon the appropriate requirements of 19 15 17 12 NMAC  Toperating 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		
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  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 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		

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only (1915 17 13 D NMAC) Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two	,		
facilities are required			
Disposal Facility Name Envirotech / JFJ Landfarm / IEI Disposal Facility Permit # NM-01-0011 / NM-01-0	010B		
Disposal Facility Name Basin Disposal Facility Disposal Facility Permit # NM-01-005	<del></del>		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future  Yes (If yes, please provide the information  No	service and		
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 11 of 19 15 17 13 NM	A.C.		
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC	AC		
Site Reclamation Plan - based upon the appropraite 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 Lach siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided			
certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to office for consideration of approval—fustifications and/or demonstrations of equivalency are required—Please refer to 1945 1740 NMAC for guidance	o ine Sania re Phvironmeniai Bureau		
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 obtained 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 - tWATERS database search, USGS, Data obtained from nearby wells	N/A		
Ground water is more than 100 feet below the bottom of the buried waste	Yes No		
- NM Office of the State Engineer - IWATERS database search, USGS, Data obtained from nearby wells	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)	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		
- Visual inspection (certification) of the proposed site, Aerial photo, satellite image	☐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	Yes No		
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	Yes No		
- Written confirmation or verification from the municipality, Written approval obtained from the municipality			
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	Yes No		
Within the area overlying a subsurface mine			
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No		
Within an unstable area	Yes No		
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society,			
Topographic map Within a 100-year floodplain	☐Yes ☐No		
- FEMA map	Yes No		
18			
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee attached to the close by a check mark in the box, that the documents are attached.	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 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			

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) Dolliesh Busse Title Staff Regulatory Technician
Signature Date 2/21/12
e-mail address dollie   busse@conocophillips com Telephone 505-324-6104
20 OCD Approval: Permit Application (including clqsfire plan)
OCD Representative Signature: Approval Date: 2/24/202
Title: OMO Jance ( 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 Alternative 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 Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions Please identify the facilities for where the 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
Were the closed-loop system operations and associated activities performed on or in areas 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 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)
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 Longitude NAD 1927 1983
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 the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
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) 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.