1301 W Grand Ave, Artesia, NM 88210

District II

District III

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 tanks, submit to the appropriate NMOCD District Office

Form C-144

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

1000 Rio Brazos Rd, Aztec, NM 87410 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 hability 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					
1 Operator. ConocoPhillips Company OGRID# 217817					
Address: PO Box 4289, Farmington, NM 87499					
Facility or well name: San Juan 29-6 Unit 225R					
API Number: 30-039-25267 OCD Permit Number					
U/L or Qtr/Qtr K(NE/SW) Section 13 Township 29N Range 6W County Rio Arriba Center of Proposed Design: Latitude: 36.72499 °N Longitude: 107.41633 °W NAD. X 1927 1983 Surface Owner X Federal State Private Tribal Trust or Indian Allotment					
Surface Owner X Federal State Private Tribal Trust or Indian Allotment Pit: Subsection For G of 19 15 17 11 NMAC					
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 Thicknessmil 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, instance of particular properties of the specific properties	stitution or chi	n ch)
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		
A signed in compilance with 19 15 3 103 NMAC		
9 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 cons (Fencing/BGT Liner)	ideration of ap	pproval
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 - 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)	NA	
- 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. (Applied to permanent pits)	☐ Yes ☐ NA	No
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image		
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 - tWATERS 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	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.	Yes	No
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	🗀 📆	ш
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 Lach 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						
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						
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 X 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 inducate, 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						

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15 17 13 D No.								
Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more the facilities are required	an two							
Disposal Facility Name Envirotech / JFJ Landfarm % IEI Disposal Facility Permit # NM-01-0011 / NM	1-01-0010B							
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 precision siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submoffice for consideration of approval Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 10 NMAC for guidance.	nitted to the Santa Fe Environmental 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 - 1WATERS database search, USGS, Data obtained from nearby wells								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No							
(measured from the ordinary high-water mark) - 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 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 	☐Yes ☐No							
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site								
Within the area overlying a subsurface mine	Yes No							
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division								
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 - 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	e 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 NIMAC								
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								
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					
	tion Certification: he information submitted with this application is true, accu	rate and complete to	he hest of my know	ledge and helief	
Name (Print)	CRYSTAL TAFOYA	Title	-	ATORY TECHNICIAN	
Signature -	10-10/20	Date	10	Julanu	
e-mail address	crystal tafoya@conocophylips cgm	Telephone	(50	75) 326-9837	
c-man address	sijote iniejuje semesepijijos ogii	receptione _	(30		
20 OCD Approval. OCD Representat Title:	Permit Application (including gosure plan) ive Signature: Apriance Office	Closure Plan (or	· ·	onditions (see attachment) oproval Date:	
Instructions Operate report is required to	equired within 60 days of closure completion): Sub- ors are required to obtain an approved closure plan prior i be submitted to the division within 60 days of the completion in has been obtained and the closure activities have been c	to implementing any on of the closure active completed	closure activities and	complete this section of the form until a	
22					
	ation and Removal On-site Closure Method om approved plan, please explain	Alternative Clos	sure Method	Waste Removal (Closed-loop systems of	nly)
	arding Waste Removal Closure For Closed-loop System identify the facility or facilities for where the liquids, drill				culities
were utilized	mendy me facility of facilities for where the inquias, aria	ang janus unu urai c	uungs were uispose	a Ose anachment ij more man iwo ja	cuiies
Disposal Facility l	Name	Disposal Fac	ılıty Permit Number		_
Disposal Facility 1		•	ılıty Permit Number		_
_	oop system operations and associated activities performed of	_	not be used for fut	ure service and opeartions?	
	elease demonstrate complilane to the items below)	No			
	ncted areas which will not be used for future service and op tion (Photo Documentation)	perations			
=	ng and Cover Installation				
Re-vegetation	Application Rates and Seeding Technique				
24					
	Attachment Checklist: Instructions Each of the foll	lowing ıtems must be	attached to the clos	ure report. Please indicate, by a check	mark in
	documents are attached				
	osure Notice (surface owner and division) ed Notice (required for on-site closure)				
=	or on-site closures and temporary pits)				
	on Sampling Analytical Results (if applicable)				
	erial Sampling Analytical Results (if applicable)				
=	cility Name and Permit Number				
	ling and Cover Installation				
_	on Application Rates and Seeding Technique				
Site Reclam	ation (Photo Documentation)				
On-site Clos	sure Location Latitude	Longitude		NAD	3
25 Operator Closure					
	he information and attachments submitted with this closure with all applicable closure requirements and conditions sp			the hest of my knowledge and belief 1 c	also certify that
Name (Print)		Title			_
Signature		Date			_
e-mail address		Telephone			

Form C-144

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.