District I  $1625\ N$  French Dr , Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources Form C-144 July 21, 2008

District II 1301 W Grand Ave , Artesia, NM 88210 District III 1000 Rio Brazos Rd, Aztec, NM 87410

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

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

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

1220 S St Franc	is Dr., Santa Fe, NM 87505
129	Prop
~ \ A ·	Type of action:

District IV

		Pit, Closed-Loop System, Below-Grade Tank, or
~Q	<u>Pro</u> p	posed Alternative Method Permit or Closure Plan Application
(V	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	s: Please submit one	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative reque
		of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the elieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
peretor: Cor	accoPhilling Compa	OGRID#: 217817

Operator: ConocoPhillips Company	OGRID#: <u>217817</u>		
Address: PO Box 4289, Farmington, NM 87499			
Facility or well name: Nassau 6			
API Number: 30-045-22078	OCD Permit Number		
U/L or Qtr/Qtr: <u>J(NW/SE)</u> Section: <u>36</u> Township: <u>27N</u>	Range: 12W County: San Juan		
Center of Proposed Design: Latitude: 36.529331 °N	Longitude:108.05828		
Surface Owner: X Federal State Private T	ribal 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	RCVD JAN 18'12 OIL CONS. DIV.  LLDPE HDPE PVC Other DIST. 3		
Liner Seams Welded Factory Other	Volumebbl Dimensions Lx Wx D		
X   Closed-loop System: Subsection H of 19 15 17 11 NMAC     Type of Operation   X   P&A   Drilling a new well   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			
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			
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)		
8 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 (Fencing/BGT Liner)  Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	onsideration of ap	proval
Siting Criteria (regarding permitting) 19 15 17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - 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).  - Topographic map, Visual inspection (certification) of the proposed site	Yes	□No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	☐ Yes ☐ NA	No
- 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
<ul> <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>	Yes	No
- NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site</li> </ul>		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  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 Classification Contains Promit Application Attachment Charletint, Colonia D. 610 16 17 0 NR44 C		
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		
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		
Oil Field Waste Stream Characterization   Monitoring and Inspection Plan		
Erosion Control Plan		
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17 13 NMAC		
14		
Proposed Closure; 19 15 17 13 NMAC		
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.		
Type Drilling Workover Emergency Cavitation XP&A Permanent Pit Below-grade Tank X Closed-loop System		
Alternative   Proposed Closure Method   Waste Excavation and Removal		
Troposed closure Method   Waste Excavation and Removal		
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)		
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.		
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 1 of 19.15.17 13 NMAC		
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC		

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste	eel Tanks or Haul-off Bins On	ly: (19 15 17 13 D NMAC)		
Instructions Please identify the facility or facilities for the disposal of liquids, drilling facilities are required				
Disposal Facility Name Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit #	NM-01-0011 / NM-01-00	010B	
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit #			
Will any of the proposed closed-loop system operations and associated activiti	•		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 H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G 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 NMA Instructions Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district offic office for consideration of approval Justifications and/or demonstrations of equivalency are	Recommendations of acceptable ce or may be considered an excep	tion which must be submitted to		
Ground water is less than 50 feet below the bottom of the buried waste	16 1 11		Yes	No
- NM Office of the State Engineer - tWATERS database search, USGS Data obt	amed from hearby wens		∐N/A	
Ground water is between 50 and 100 feet below the bottom of the buried wast			Yes	∐No
- NM Office of the State Engineer - (WATERS database search, USGS, Data obtained)	amed 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	ained 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	•	oplication	Yes	No
- Visual inspection (certification) of the proposed site, Aerial photo, satellite image	2		□vos	
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 w pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality. Written approval obtains		pal ordinance adopted	Yes	No
- Written confirmation or verification from the municipality, Written approval obtained from the municipality  Within 500 feet of a wetland  Yes No			ПNo	
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual insp	ection (certification) of the pro-	oosed site	_	
Within the area overlying a subsurface mine			Yes	No
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division				
Within an unstable area  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society,			□No	
Topographic map  Within a 100-year floodplain  - FEMA map			Yes	No
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 mus	t bee attached to the closi	ıre plan. Plea	se indicate,
Siting Criteria Compliance Demonstrations - based upon the appropria	te 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		
	iformation submitted with this application is true,	accurate and complete to t	he best of my knowledge and belief
Name (Print)	CRYSTAL TAFOYA	Title	STAFF REGULATORY TECHNICIAN
Signature	Ind Taken	 Date	11212
e-mail address	crystal tafoya@conocoohillies com	Telephone	(505) 326-9837
C man address			(600) 520 700.
OCD Representative	Permit Application (including closure plan) Signature:	Telly	Approval Date: 1/18/2012  ermit Number:
Instructions Operators a report is required to be s.		rior to implementing any c pletion of the closure activ een completed	MAC closure activities and submitting the closure report. The closure cities. Please do not complete this section of the form until an sure Completion Date:
22			
Closure Method:  Waste Excavation  If different from a	n and RemovalOn-site Closure Metho	od Alternative Clos	sure Method Waste Removal (Closed-loop systems only)
	ing Waste Removal Closure For Closed-loop Sy tify the facility or facilities for where the liquids,		e Ground Steel Tanks or Haul-off Bins Only: uttings were disposed. Use attachment if more than two facilities
Disposal Facility Nam	e	Disposal Fac	ılıty Permit Number
Disposal Facility Nam	e	Disposal Fac	ılıty Permit Number
Were the closed-loop	system operations and associated activities perform	ned on or in areas that will	not be used for future service and opeartions?
Yes (If yes, pleas	e demonstrate complilane to the items below)	□No	
. —:	d areas which will not be used for future service an	nd operations	
	(Photo Documentation)		
	nd Cover Installation		
Re-vegetation Ap	plication Rates and Seeding Technique		
the box, that the docu		e following items must be	attached to the closure report. Please indicate, by a check mark in
Proof of Deed N	Notice (required for on-site closure)		
Plot Plan (for or	n-site closures and temporary pits)		
Confirmation Sa	ampling Analytical Results (if applicable)		
Waste Material	Sampling Analytical Results (if applicable)		
Disposal Facility	y Name and Permit Number		
, = °	and Cover Installation		
l <u>=</u>	application Rates and Seeding Technique		
. —	n (Photo Documentation)		NAD [] 1005 [] 1000
On-site Closure	Location Latitude:	Longitude	NAD
, ,,			rate and complete to the best of my knowledge and belief I also certify that ed closure plan
Name (Print)		Tıtle	
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.