District 1

1625 N French Di , Hobbs, NM 88240

District II

1301 W. Grand Ave , Aitesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S St Francis Dr , Santa Fe, NM 87505

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.

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Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	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
	X 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.
Operator: ConocoPhillips Company OGRID#: 217817
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: San Juan 32-8 Unit 10A
API Number: 30-045-34605 OCD Permit Number:
U/L or Qtr/Qtr: O(SW/SE) Section: 24 Township: 31N Range: 8W County: Rio Arriba
Center of Proposed Design: Latitude: <u>' 36.87796 °N Longitude: 107.62319 °W NAD: 1927 X 1983</u>
Surface Owner: Federal State X Private Tribal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17 11 NMAC Temporary: Drilling Workover Permanent Emergency X Cavitation P&A (Pre-set) 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
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: 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 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
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 tunks)			
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: X Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval			
(Cavitation pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.			
			
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.			
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - 1WATERS database scarch; 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.	∐Yes	∐No	
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐NA		
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	Yes	No	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	□vaa		
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	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 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 19.15.17.11 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
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
Frosion 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 X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative
Proposed Closure Method Waste Excavation and Removal
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 NIMAC
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)
Disposal Facility Name and Permit Number (for Induitis, urning Indias and drift culturgs) 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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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions. Please identify the facility or facilities for the disposal of liquids, drilling fare required.	Tanks or Haul-off Bins Only: (19 15.17.13.D NMAC) duids and drill cuttings. Use attachment if more than two facilities.	chnes		
Disposal Facility Name. Envirotech	Disposal Facility Permit #: NM-01-0011			
Disposal Facility Name: Basin Disposal Facility	Disposal Facility Permit # NM-01-005			
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	occur on or in areas that will not be used for future ser	rvice and operations?		
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 stung criteria requires a demonstration of compliance in the closure plan Recertain siting criteria may require administrative approval from the appropriate district office of for consideration of approval Justifications and/or demonstrations of equivalency are required	r may be considered an exception which must be submitted to the S	Santa Fe Environmental Bureau office		
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 obtain	ned 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 - (WATERS database search; USGS; Data obtain	ned from nearby wells	□N/A		
Crown division to make their 100 feet heles, the heltom of the human weets		☐ ☐Yes ☐No		
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ned from nearby wells	□ N/A		
- NW Office of the State Engineer - (WATERS database search, 0303, Data obtain	led from hearby wells			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signification (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		
		Yes No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less that purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existe - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	nce at the time of the initial application.			
Within incorporated municipal boundaries or within a defined municipal fresh water we pursuant to NMSA 1978, Section 3-27-3, as amended		Yes No		
 Written confirmation or verification from the municipality, Written approval obta Within 500 feet of a welland 	med from the municipality	□Yes □No		
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspe	ection (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 M	neral Division			
Withm an unstable area.		Yes No		
- Engineering measures incorporated into the design; NM Bureau of Geology & Mil	neral Resources; USGS; NM Geological Society;			
Topographic map Within a 100-year floodplain. - FEMA map		☐Yes ☐No		
18				
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	f the following items must bee attached to the closure	e 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 requiremen	- · · · · · · · · · · · · · · · · · · ·			
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 X 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				
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC				
X 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 1 of 19.15.17.13 NMAC				
Ste Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC				

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19				
Operator Application Certification Certifica	a tion: I submitted with this application is true, acc	curate and complete to the	best of my knowledge and belief	
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician	
Signature	stal Talona	Date:	6/22/2009	
e-mail address: <u>cr</u>	stal.tafoya@conocophj#ps.com	Telephone.	505-326-9837	
			1	
20 OCD Approval: Permit A	pplication (including closure plan)	Closure Plan (only)	OCD Conditions (see attachmen	nt)
OCD Representative Signatur	e: That The		Approval Date:	-22-09
Title: Enviro	/spec	OCD Perm	nit Number:	
Instructions. Operators are require report is required to be submitted to	tin 60 days of closure completion): so d to obtain an approved closure plan prior o the division within 60 days of the complet ained and the closure activities have been	to implementing any closi ton of the closure activitie completed.	ire activities and submitting the closure r	
22	•			
Closure Method:		_		
Waste Excavation and Rem		Alternative Closure	Method Waste Removal (Closed-	loop systems only)
If different from approved p	plan, please explain			
	Removal Closure For Closed-loop Systencility or facilities for where the liquids, dr		•	
Disposal Facility Name:		Disposal Facility	Permit Number	
Disposal Facility Name:		Disposal Facility		
	erations and associated activities performed rate complilane to the items below)	d on or in areas that <i>will no</i>	of be used for future service and opeartion	ns?
	ich will not be used for future service and i	_		
Site Reclamation (Photo De		урегинона.		
Soil Backfilling and Cover	Installation			
Re-vegetation Application	Rates and Seeding Technique			
the box, that the documents are Proof of Closure Notice ((surface owner and division)	llowing items must be atta	ached to the closure report. Please indic	ate, by a check mark in
 	quired for on-site closure)			
Plot Plan (for on-site clos	Analytical Results (if applicable)			1
	Analytical Results (if applicable)			
Disposal Facility Name a				
Soil Backfilling and Cov				
Re-vegetation Applicatio	n Rates and Seeding Technique			
Site Reclamation (Photo				,
On-site Closure Location	: Latitude:	Longitude	NAD	1983
25 Operator Closure Certificatio	n:		•	
I hereby certify that the information	n and attachments submitted with this closi able closure requirements and conditions			e and belief I also certify that
Name (Print)		Title		
Signature		Date:		
e-mail address:		Telephone:		

ConocoPhillips Company Cavitation Pit for Closed-Loop Locations

Design:

ConocoPhillips Company will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations. The drill cuttings will be stockpiled on the surface.

Operations and Maintenance:

The cavitation pit will be operated and maintained as follows:

- 1. Only Fresh water and air will be used in the drilling of the surface casing.
- 2. The Cement used will be neat cement with the no additives.
- 3. All of the fluids will be removed within 48hrs after drilling.
- 4. A representative five point composite sample will be taken of the drill cuttings, after the setting of the surface casing is complete, using sampling tools and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

5. The NMOCD will be notified via email of the test results of the cavitation surface as follows:

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	500	
Chlorides	EPA 300.1	500	

Closure Plan:

- 1. The NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location.
- 2. In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005).
- 3. Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144.

ConocoPhillips is aware that approval of this plan does not relieve ConocoPhillips of liability should operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve ConocoPhillips of its responsibility to comply with any other applicable governmental authority's rules and regulations.