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

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

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

9013	Type of action:	X
1 -		Η

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 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#: <u>217817</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Lindrith B Unit 16	
API Number: 30-039-22549	OCD Permit Number
	24N Range: 3W County: Rio Arriba
	°N Longitude: 107.15518 °W NAD: X 1927 1983
Surface Owner: Federal State X 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 String-Reinforced Liner Seams Welded Factory Other	mil LLDPE HDPE PVC Other Volume. bbl Dimensions L x W x D
	mil LLDPE HDPE PVD Other A BECEIVED
4 Below-grade tank: Subsection I of 19 15 17.11 NMAC Volume bbl Type of fluid:	00 SEP 2011 ODIL CONS. DIV. DIST. 3
Tank Construction material Secondary containment with leak detection Visible sidewal Visible sidewalls and liner Visible sidewalls only Liner Type Thickness mil HDPE	Ills, liner, 6-inch lift and automatic overflow shut-off Other PVC Other
Submittal of an exception request is required Exceptions must be submit	tted 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 cons (Fencing/BGT Liner) Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	ideration of ap	pproval
10		
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.	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 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
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		
Within a 100-year floodplain	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 19.13.17.10 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
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
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
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)
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 I of 19.15 17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC

Form C-144 Oil Conservation Division Page 3 of 5

Waste Removal Closure For Instructions Please identify the	Closed-loop Systems That Utilize Above Groun the faculity or faculities for the disposal of liquids, d	d Steel Tanks or Haul-off Bins On rilling fluids and drill cuttings Use	nly: (19 15 17 13 D NMAC) attachment if more than two		
facilities are required.	Engage of JELL and forms 0/ JEL	Dominal Facility Damily #	NB4 01 0011 (NB4 01 00)10D	
	Envirotech / JFJ Landfarm % IEI Basin Disposal Facility	Disposal Facility Permit # Disposal Facility Permit #		710B	
Will any of the proposed cl	osed-loop system operations and associated ac			service and	
Soil Backfill and Co	rovide the information No which will not be used for future service and operative Design Specification - based upon the appropriate requirements of San - based upon the appropriate re	ropriate requirements of Subsect subsection I of 19 15 17 13 NMA	С	AC	
Instructions Each siting criteria certain siting criteria may requir	g on-site closure methods only: 19 15 17 10 1 requires a demonstration of compliance in the closure re administrative approval from the appropriate distric- wal Justifications and/or demonstrations of equivalen	e plan Recommendations of acceptable I office or may be considered an excep	tion which must be submitted to		
	0 feet below the bottom of the buried waste. Engineer - iWATERS database search, USGS Da	a obtained from nearby wells		Yes N/A	No
Ground water is between 50	and 100 feet below the bottom of the buried	waste		Yes	No
- NM Office of the State	Engineer - iWATERS database search, USGS, Dat	a 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, Dat	a obtained from nearby wells		N/A	
(measured from the ordinary h	isly flowing watercourse, or 200 feet of any other sigh-water mark) al inspection (certification) of the proposed site	ignificant watercourse or lakebed, sii	nkhole, or playa lake	Yes	No
1	nent residence, school, hospital, institution, or church	ch in existence at the time of initial a	pplication	Yes	□No
•	cation) of the proposed site, Aerial photo, satellite	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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					
pursuant to NMSA 1978, Sect			pal ordinance adopted	Yes	No
Within 500 feet of a wetlan	verification from the municipality, Written approva d etland Identification map, Topographic map, Visua		nosed site	Yes	No
Within the area overlying a	.,	i inspection (detailed and proj	posed one	Yes	No
- Written confiramtion or	verification or map from the NM EMNRD-Mining	and Mineral Division			
Within an unstable area - Engineering measures ind Topographic map	corporated into the design, NM Bureau of Geology	& Mineral Resources, USGS, NM (Geological Society,	Yes	∐No
Within a 100-year floodplai	ın .			Yes	No
	ecklist: (19 15 17 13 NMAC) Instructions: , , that the documents are attached.	Each of the following items mus	st bee attached to the closi	ire plan. Plea	se 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			DATE.		
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					
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 10.15.17.13 NMAC					

19			
Operator Application			
	iformation submitted with this application is true, accurate TAFOVA	-	· -
Name (Print)	CRYSTAL TAFOYA	Title	STAFF REGULATORY TECHNICIAN
Signature	Sal Talaya	Date	9/27/2011
e-mail address	crystal tafoya@conocophillsbs com	Telephone	(505)'326-9837
OCD Approval: OCD Representative:	Permit Application (including closure plan) Signature: Diance Office (lly	only) OCD Conditions (see attachment) Approval Date: 4/27/201/ Permit Number:
Instructions Operators of report is required to be si		r to implementing any tion of the closure act completed	NMAC y closure activities and submitting the closure report. The closure tivities. Please do not complete this section of the form until an losure Completion Date:
Closure Method: Waste Excavation If different from a	n and Removal On-site Closure Method approved plan, please explain	Alternative CI	losure Method Waste Removal (Closed-loop systems only)
Instructions: Please identified. Disposal Facility Nam Disposal Facility Nam Were the closed-loop Yes (If yes, please)	e system operations and associated activities performed e demonstrate complilane to the items below)	illing fluids and drill Disposal Fa Disposal Fa on or in areas that w	aculty Permit Number
Site Reclamation Soil Backfilling a	d areas which will not be used for future service and of (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique	operations	
the box, that the docu Proof of Closure Proof of Deed N Plot Plan (for or Confirmation Se Waste Material Disposal Facility Soil Backfilling Re-vegetation A	ments are attached. e Notice (surface owner and division) Notice (required for on-site closure) n-site closures and temporary pits) ampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) by Name and Permit Number and Cover Installation application Rates and Seeding Technique in (Photo Documentation)	tlowing items must b	be attached to the closure report. Please indicate, by a check mark in NAD 1927 1983
			curate and complete to the best of my knowledge and belief I also certify that oved closure plan
Name (Print)		Tıtle	
Signature.		Date ·	
e-mail address		Telephone	e

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.