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

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 appropriate NMOCD District Office

| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | appropriate to the second seco |
|---|--|
| Proposed Alternative Method Permit of | |
| | |
| | v-grade tank, or proposed alternative method |
| X Modification to an existing permit | w-grade tank, or proposed alternative method |
| | ng permitted or non-permitted pit, closed-loop system, |
| below-grade tank, or proposed alternative | |
| Instructions: Please submit one application (Form C-144) per individual pit, cl | osed-loop system, below-grade tank or alternative request |
| Please be advised that approval of this request does not relieve the operator of liability should of environment. Nor does approval relieve the operator of its responsibility to comply with any other | · |
| 1 Operator: ConocoPhillips Company | OGRID#: <u>217817</u> |
| Address: PO Box 4289, Farmington, NM 87499 | |
| Facility or well name: SAN JUAN 30-5 UNIT 77N | |
| API Number: 30-039-30848 OCD Perm | nit Number: |
| U/L or Qtr/Qtr: G(SW/NE) Section: 36 Township: 30N Range | ge: 5W County: Rio Arriba |
| Center of Proposed Design: Latitude: 36.77178 °N Longitu | de: 107.305242 °W NAD: 1927 1983 |
| Surface Owner: Federal X State Private Tribal Trust | or Indian Allotment |
| Temporary: Drilling Workover Permanent Emergency X Cavitation P&A (Pre-set) Lined Unlined Liner type: Thickness mil LLI String-Reinforced Liner Seams: Welded Factory Other Volume: | DPE HDPE PVC Other 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 (a notice of intent) | Applies to activities which require prior approval of a permit or |
| Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLD Liner Seams: Welded Factory Other | DPE HDPE PVD Other PECEIVED |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: | JAN 2010 CONS. DIV. DIST. 3 |
| Tank Construction material: | \ \ |
| | ft and automatic overflow shut-off |
| | Other |
| | |
| Alternative Method: | |
| Submittal of an exception request is required. Exceptions must be submitted to the Santa F | e Environmental Bureau office for consideration of approval |
| Submittal of all exception request is required. Exceptions must be submitted to the Santa I | Contracting Durcag 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 of barbed wire evenly spaced between one and four feet Alternate. Please specify | ttion or church) |
|---|-----------------------|
| 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: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | leration 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | ∏Yes ∏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. | Yes No |
| (Applied to permanent pits) | NA |
| 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 - 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 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 |
| - FEMA map | |

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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 | |
| '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 | |
| 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 (1) 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 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 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 Pools I and Cours Pools Specifications been dependent to appropriate acquirements of Subsection H of 10.15.17.13 NIMAC | |
| 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 Tanl Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids in | is or Haul-off Bins Only:(19.15.17 13.D NMAC) | |
| facilities are required | and the same state of the same | |
| Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Dispos | sal Facility Permit #: <u>NM-01-0011 / NM-01-001</u> | 10B_ |
| | sal Facility Permit #: NM-01-005 | |
| Will any of the proposed closed-loop system operations and associated activities oc Yes (If yes, please provide the information No | cur on or in areas that will nbe used for future se | ervice and |
| Required for impacted areas which will not be used for future service and operations: | | 4.0 |
| Soil Backfill and Cover Design Specification - based upon the appropriate re Re-vegetation Plan - based upon the appropriate requirements of Subsection I | | AC |
| Site Reclamation Plan - based upon the appropriate requirements of Subsection | | |
| | | |
| 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 Recommen certain siting criteria may require administrative approval from the appropriate district office or may be office for consideration of approval Justifications and/or demonstrations of equivalency are required Fig. 17. | considered an exception which must be submitted to the Sant | |
| 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 fi | om 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 - iWATERS database search; USGS; Data obtained from | om 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 | | ∐N/A |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse from the ordinary high-water mark) | tercourse or lakebed, sinkhole, or playa lake | ∐Yes ∐No |
| - Topographic map; Visual inspection (certification) of the proposed site | | □vos □vo |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existen - Visual inspection (certification) of the proposed site; Aerial photo; satellite image | se 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 than five h purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) | the time of the initial application. | |
| 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 fi Within 500 feet of a wetland | om the municipality | ∏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 confirantion or verification or map from the NM EMNRD-Mining and Mineral Within an unstable area. | Division . | |
| - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral I | Resources: USGS: NM Geological Society: | ∐Yes ∐No |
| Topographic map | | |
| Within a 100-year floodplain FEMA map | | YesNo |
| 18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the | e following items must bee attached to the closu | re plan. Please indicate, |
| by a check mark in the box, that the documents are attached. | | |
| Siting Criteria Compliance Demonstrations - based upon the appropriate req | | |
| 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 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 | | |
| Waste Material Sampling Final - based upon the appropriate requirements of Subsection For 17.15.17.15 Name X | | |
| 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 | | |

Form C-144

| 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): Marie E. Jarafhillo |
| Signature: Date: 1 [2] |
| e-mail address: manie.ejaramillo@conocophilips.com Telephone: 505-326-9865 |
| e-mail address. Telephone. 1909-320-4805 |
| 20 |
| OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature: Approval Date: 2/24/10 |
| OCD Representative Signature: Approval Date: 2/24/10 Title: Ewiro/spec OCD Permit Number: |
| 21 |
| Closure Report (required within 60 days of closure completion): 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 facility or 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 complilane 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 Payagetation Application Pates and Seeding Technique |
| Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) |
| On-site Closure Location: Latitude: Longitude: NAD 1927 1983 |
| |
| 25 |
| 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 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 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 |

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 | N/D |
| BTEX | EPA SW-846 8021B or 8260B | 50 | 10.7 |
| TPH | EPA SW-846 418.1 | 2500 | 178 |
| GRO/DRO | EPA SW-846 8015M | 500 | N/D |
| Chlorides | EPA 300.1 | 500 | 20 |

Closure Plan:

- 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) and/or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B).
- 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.