#### 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

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

| District IV 1220 S St Francis Dr., Santa Fe, NM 87505  | Environmental Bureau office and provide a copy to the appropriate NMOCD District Office  |
|--|--|
| Proposed Alternative Method Permit   |  |
| Closure of a pit, closed-loop system, belo   | closed-loop system, below-grade tank or alternative request operations result in pollution of surface water, ground water or the |
| Operator: ConocoPhillips Company   | OGRID#: <b>217817</b>  |
| Address: PO Box 4289, Farmington, NM 87499   |  |
| Facility or well name: SAN JUAN 31-6 UNIT 8N   |  |
| API Number: 30-039-30311 OCD Per   | mit Number   |
| U/L or Qtr/Qtr:     L(NW/SW)     Section:     6     Township:     30N     Ran       Center of Proposed Design:     Latitude:     36.84024     °N     Longitude:       Surface Owner:     Federal     X     State     Private     Tribal Trus |  |
| 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 LL String-Reinforced Liner Seams: Welded Factory Other Volume                             | DPE HDPE PVC Other bbl Dimensions L x W x D  |
| 3 Closed-loop System: Subsection H of 19.15.17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Buns Other   | Applies to activities which require prior approval of a permit or  |
| Lined Unlined Liner type: Thickness mil LLI Liner Seams: Welded Factory Other  | DPE HDPE PVD Other PFCFIVED  |
| X   Below-grade tank:   Subsection I of 19.15.17.11 NMAC   | OCV 2009  Second Cons. Div. Dist 3   |

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, institution or church)   |                   |                        |  |  |  |  |  |  |  |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet  |                   |                        |  |  |  |  |  |  |  |
| X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.   |                   |                        |  |  |  |  |  |  |  |
|  |                   |                        |  |  |  |  |  |  |  |
| 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  | <u> </u>          |                        |  |  |  |  |  |  |  |
| Signs: Subsection C of 19.15 17.11 NMAC  |                   | j                      |  |  |  |  |  |  |  |
| 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   |                   |                        |  |  |  |  |  |  |  |
| 9 Administrative Approvals and Eventines   |                   |                        |  |  |  |  |  |  |  |
| 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 const (Fencing/BGT Liner)  | deration of app   | proval.                |  |  |  |  |  |  |  |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.  |                   |                        |  |  |  |  |  |  |  |
| 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  | I                 |                        |  |  |  |  |  |  |  |
| 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.   | ∏Yes              | X No                   |  |  |  |  |  |  |  |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | □                 | III.                   |  |  |  |  |  |  |  |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa   | Yes               | XNo                    |  |  |  |  |  |  |  |
| lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site  |                   |                        |  |  |  |  |  |  |  |
|  |                   | [ <del>1</del> 2] ), ; |  |  |  |  |  |  |  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  | ∐Yes              | X 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)  | XNA               |                        |  |  |  |  |  |  |  |
| - 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              | X 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               | XNo                    |  |  |  |  |  |  |  |
| - Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a westland   | l □v <sub>~</sub> | X No                   |  |  |  |  |  |  |  |
| Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | Yes               | ™.                     |  |  |  |  |  |  |  |
| Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division  | Yes               | XNo                    |  |  |  |  |  |  |  |
| Within an unstable area.   | Yes               | X No                   |  |  |  |  |  |  |  |
| - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  |                   | J                      |  |  |  |  |  |  |  |
| Within a 100-year floodplain - FEMA map  | Yes               | XNo                    |  |  |  |  |  |  |  |

| 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   |
|---|
| X   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  |
| Tryanogeologic State (reinporary and Emorgency First)   State apon the 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  |
| 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   |
| 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  |
| 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  Contified Engineering Design Plans based upon the appropriate requirements of 10.15.17.11 NIMAC  |
| 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<br>  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 P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative   |
| Proposed Closure Method: X 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.   |
| X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  |
| X Confirmation Sampling Plan (if applicable) - 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)  |
| X 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  |
| X 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 Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)  |                           |  |  |  |  |  |  |  |  |
|--|---------------------------|--|--|--|--|--|--|--|--|
| Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two face required  | acılıtıes                 |  |  |  |  |  |  |  |  |
| ·  |                           |  |  |  |  |  |  |  |  |
| Disposal Facility Name. Disposal Facility Permit #.  Disposal Facility Name Disposal Facility Permit #:  |                           |  |  |  |  |  |  |  |  |
| 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 operations?  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 provided below certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 10 NMAC for guidance. |                           |  |  |  |  |  |  |  |  |
| Ground water is less than 50 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   | ∐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 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 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 existence at the time of initial application.  - Visual inspection (certification) of the proposed site, Aerial photo; satellite image   | Yes No                    |  |  |  |  |  |  |  |  |
|  | 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                    |  |  |  |  |  |  |  |  |
| <ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> </ul>   |                           |  |  |  |  |  |  |  |  |
| - Written confirantion 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;  | Yes No                    |  |  |  |  |  |  |  |  |
| 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 the following items must bee attached to the closur by a check mark in the box, that the documents are attached.  | re 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 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 I   | 9.15 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   | mmat ha ashiouad)         |  |  |  |  |  |  |  |  |
| Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards call Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17.13 NMAC  | nnot be achieved)         |  |  |  |  |  |  |  |  |
| 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  |                           |  |  |  |  |  |  |  |  |

| Operator Application Contifications  | ·          |
|--|------------|
| 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) Crystal Tafoya Title Regulatory Technician  |            |
| Signature Control Talana Date: 10/22/2009  |            |
| e-mail address: crystal tafoya@conocophilips.com Telephone. 505-326-9837   |            |
|  |            |
| 20   |            |
| OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  |            |
| OCD Representative Signature: Approval Date: 11/3/09   | _          |
| OCD Representative Signature: Approval Date: 11/3/09  Title: Enviro/spec OCD Permit Number:  |            |
| Title: CWV//8/3/EC OCD Fermit Number:  |            |
| Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC 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 <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> 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 compliane to the items below)  No  |            |
| 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 it the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)   | in         |
| Proof of Deed Notice (surface owner and division)  |            |
| 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  |            |
| Re-vegetation Application Rates and Seeding Technique  |            |
| Site Reclamation (Photo Documentation)   |            |
| On-site Closure Location: Latitude Longitude: NAD 1927 1983  |            |
|  |            |
| 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 information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certificate the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.  | rtify that |
| Name (Print):  Title:  |            |
| Signature Date.  |            |
| e-mail address: Telephone:   |            |

Form C-144 Oil Conservation Division



(quarters are 1=NW 2=NE 3=SW 4=SE)

| ago i goreni | (quarter:      | s are s | smai | lest to | o larges | st) | (NAD83 UTI | vi in meters) |        | (In feet) |       |  |
|--------------|----------------|---------|------|---------|----------|-----|------------|---------------|--------|-----------|-------|--|
|              | alli Cranice v | QÇ      | Q    |         |          |     |            |               | DepthE | epth V    | Nater |  |
| POD Number   | County         | 6416    | 3 4  | Sec     | Tws      | Rng | X          | Ϋ́            | Welly  | VaterC    | olumn |  |
| SJ 00040     | Rio Àrriba     | 3 2     | 3    | 28      | 30N      | 06W | 279427     | 4073418       | 420    |           |       |  |
| SJ 00041     | Rio Arriba     | 3 2     | 3    | 28      | 30N      | 06W | 279427     | 4073418       | 349    |           |       |  |
| SJ 00741     | Rio Arriba     | 3 2     | 4    | 17      | 30N      | 06W | 278707     | 4076656       | 2038   | 300       | 1738  |  |
|              |                |         |      |         |          |     |            |               |        |           |       |  |

Record Count:3 Average Depth to Water: 300 feet

> Minimum Depth: 300 feét Maximum Depth: 300 feet



(quarters are 1=NW 2=NE 3=SW 4=SE)

|               | (quarters are smallest to largest) |    |    |   |     | (NAD83.UT | (In feet) |        |         |        |         |       |
|---------------|------------------------------------|----|----|---|-----|-----------|-----------|--------|---------|--------|---------|-------|
|               |                                    | Q  | Q  | Q |     |           |           |        |         | DepthE | epth .  | Water |
| POD Number .  | County                             | 64 | 16 | 4 | Sec | Tws       | Rng       | X      | Υ       | Wellv  | Vater C | olumn |
| SJ 00035      | Rio Arriba                         | 2  | 2  | 4 | 33  | 30N       | 07W       | 270745 | 4072250 | 547    | 467     | 80    |
| SJ 00837      | Rio Arriba                         |    | 4  | 4 | 17  | 30N       | 07W       | 269152 | 4076614 | 400    |         |       |
| SJ 02366      | Rio Arriba                         |    | 1  | 3 | 15  | 30N       | 07W       | 271062 | 4077048 | 345    | 225     | 120   |
| SJ 02698      | Rio Arriba                         |    | 1  | 3 | 15  | 30N       | 07W       | 271173 | 4076962 | 402    | 255     | 147   |
| SJ 02818      | Rio Arriba                         | 2  | 1  | 3 | 24  | 30N       | 07W       | 274444 | 4075362 | 86     | 42      | 44    |
| SJ 02983      | Rio Arriba                         | 3  | 4  | 1 | 25  | 30N       | 07W       | 274616 | 4073946 | 262    | 40      | 222   |
| SJ 03006      | Rio Arriba                         | 3  | 3  | 1 | 24  | 30N       | 07W       | 274255 | 4075564 | 100    |         |       |
| SJ 03053      | Rio Arriba                         | 4  | 4  | 3 | 24  | 30N       | 07W       | 274836 | 4074750 | 200    |         |       |
| SJ 03075      | Rio Arriba                         | 1  | 2  | 1 | 25  | 30N       | 07W       | 274626 | 4074548 | 165    | 78      | 87    |
| SJ 03082      | Rio Arriba                         | 1  | 1  | 3 | 24  | 30N       | 07W       | 274244 | 4075362 | 98     | 61      | 37    |
| SJ 03385      | Rio Arriba                         | 4  | 4  | 4 | 17  | 30N       | 07W       | 269251 | 4076513 | 520    | 460     | 60    |
| SJ 03485      | Rio Arriba                         | 1  | 1  | 3 | 24  | 30N       | 07W       | 274244 | 4075362 | 126    | 60      | 66    |
| SJ 03640      | Rio Arriba                         | 1  | 1  | 3 | 15  | 30N       | 07W       | 271072 | 4077061 | 433    | 241     | 192   |
| SJ 03773 POD1 | Rio Arriba                         | 2  | 1  | 3 | 24  | 30N       | 07W       | 274444 | 4075362 | 120    | 70      | 50    |
| SJ 03774 POD1 | Rio Arriba                         | 3  | 3  | 1 | 25  | 30N       | 07W       | 274214 | 4073956 | 300    | 220     | 80    |

Average Depth to Water: 184 feet

Minimum Depth: 40 feet Maximum Depth: 467 feet

Record Count:15



(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters) \_\_\_ (In feet)

ର ଘ ପ POD Number

County 6416 4 Sec Tws Rng

Depth Depth Water Y Well Water Column

Record Count:0

Average Depth to Water: 0 feet

"Minimum Depth: 0 feet

Maximum Depth: 0 feet



(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

**POD Number** 

Depth Depth Water

QQQ

County 6416 4 Sec Tws Rng

Y Well Water Column

SJ 00011

Rio Arriba

32 31N 06W

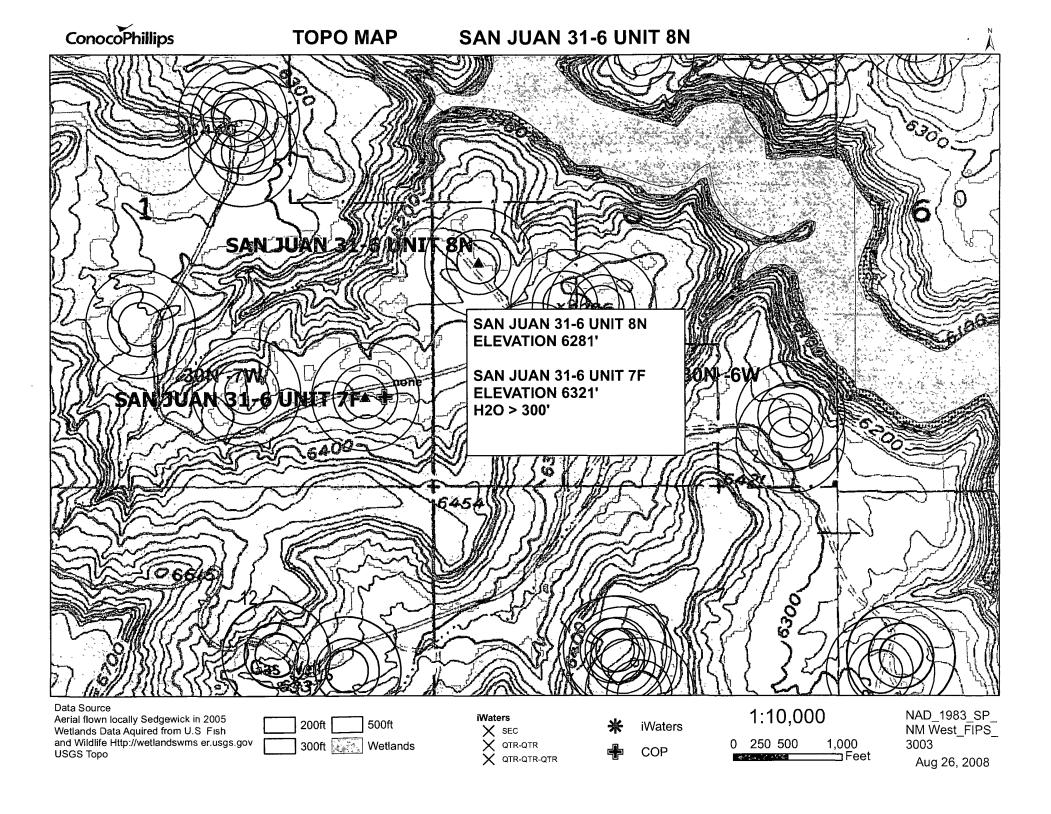
278321 4081811 610

Record Count: 1

Average Depth to Water, null feet

Minimum Depth: null feet

Maximum Depth: null feet



#### TIERRA CORROSION CONTROL, INC. DRILLING LOG

COMPANY: Conoco Phillips LOCATION: San Juan 31-6 #7F

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,700# ANODE TYPE: 2 X 60

DATE: June 28, 2008 LEGALS: Sec1 T31N R7W **DRILLER: Mike Marrow** 

CASING SIZE/TYPE: 20' X 8" PVC

VENT PIPE: 140' X 1" PVC **ANODE AMOUNT: 15** 

COUNTY: Rio Arriba

**DEPTH: 300'** 

COKE TYPE: Asbury

PERF PIPE: 160' X 1" PVC 1/8"Perf

BOULDER DRILLING: None

|          | DEPTH         | DRILLER'S LOG  | AMPS   | DEPTH  | DRILLER'S LOG  | AMPS   |
|----------|---------------|--|--|--|--|--|
| (at      | 20            | Sandstone  |  | 310.   |  |  |
| -        | 25            |  |  | ~315   | The second secon | * Paris and Comments   |
| ,        | _30 <u></u> _ |  |  | 320  | members of the second s |  |
|          | 35            |  |  | . 325  |  |  |
| 4,       | 40            | The state of the s | ***************************************  | 330  |  |  |
|          | 45====        |  |  | 335  | September 1997   |  |
|          | 50            |  |  | 340  |  | - Cara   |
| ,        | 55            |  | 7  | 345  | Party In the second sec |  |
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|          | 85            | A - Court - Co | -  | 375  |  | 7  |
| -        | 290           | mode in the second   | 2010 T.  | -380====   |  | ر المساور المار  |
| Ĵ        | 95            | provide a service and the serv | Codey NA.  | 385  | A DANGE OF THE PROPERTY OF THE | No. 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
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| al<br>al | -105          | The state of the s | Personal Control   | 395  | Activities of the second secon | <del></del>  |
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| -        | 165           |  |  | 455  |  |  |
|          | =170          | Shale  | 1.4  | 460  | The second secon | The second secon |
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| ANODE #                                 | DEPTH  | NO COKE  | COKE   |
|---|--|--|--|
| 15. 15. 15. 15. 15. 15. 15. 15. 15. 15. | 290  | 1.0 ∴  | 2.8  |
| 2                                       | 280  | 1.0  | 3.2  |
| 3                                       | 270  | 1.0  | 3.0  |
| 4                                       | 260  | 1.0  | 3.2  |
| 5                                       | 250  | 1.2  | 3.2  |
| 6                                       | 240  | .8   | 2.8  |
| 7                                       | 230  | .9   | 2.9  |
| 8                                       | 220  | 1.9===   | <b>4.0</b>   |
| 9                                       | 210  | 1.4  | 4.3  |
| <u> </u>                                | 200  | 1.0  | 4.0 s  |
| 11                                      | 190  | 1.0  | 4.1  |
| 12                                      | 180_   | 1.2  | 4.2  |
| 13                                      | 170  | 1.4  | 3.9  |
| 14                                      | 160  | .5   | 2.9  |
| 15                                      | 150  | .4   | 2.5  |
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| 28                                      |  |  |  |
| 29                                      |  |  |  |
| 30                                      |  |  |  |
| Aprilia maniminativa iz. at             | **   |  | Management Services of the Company   |

WATER DEPTH: None **ISOLATION PLUGS: LOGING VOLTS: 12.4** 

**VOLT SOURCE: AUTO BATTERY** 

TOTAL AMPS: 10.0 TOTAL GB RESISTANCE: 1.24

**REMARKS:** 

Form 3160-4 (October 1990)

#### UNITED STATES **DEPARTMENT OF THE INTERIOR**

SUBMIT IN DUPLICATE! (See vitter in-structions on reverse atte)

FOR APPROVED

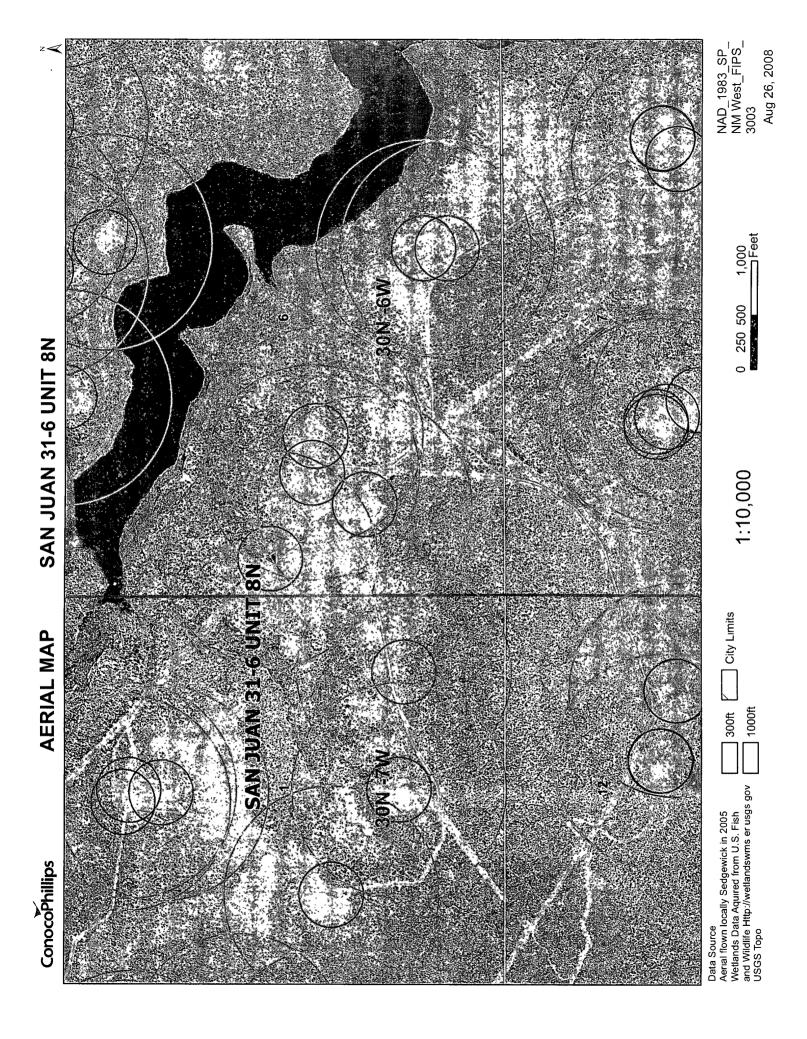
| OMB | NU. | 1004-01 | 3 |
|-----|-----|---------|---|
|     |     |         |   |

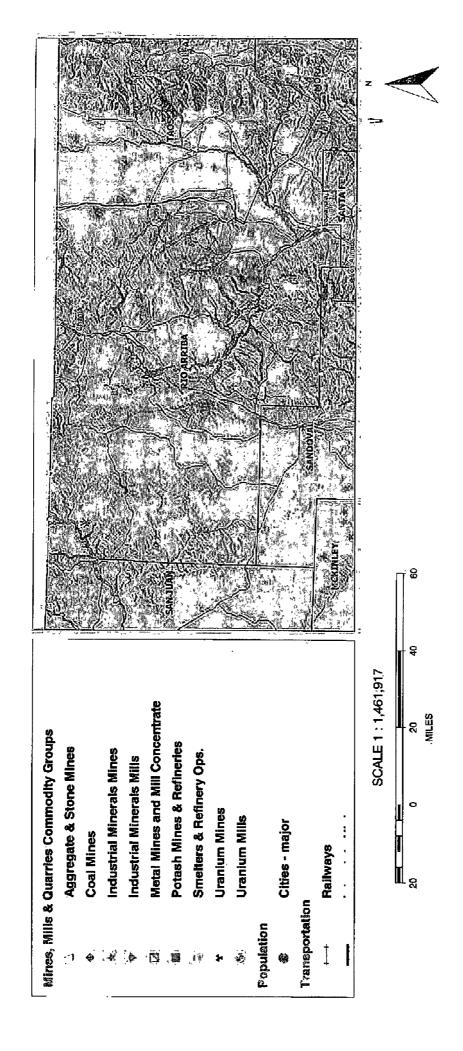
Expires: December 31, 1991

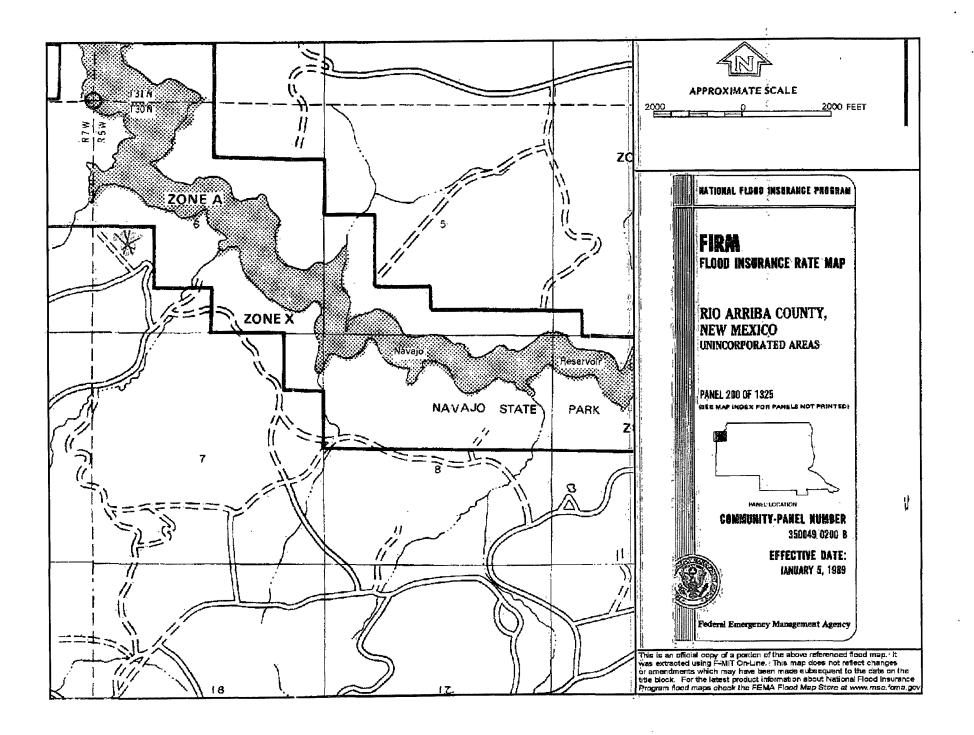
|   |                    | ŧ                 | BUREAU OF L                                | M Cha.           | ANAGEMEN                              | IT .                                  |            |                                       | 10-74                     | EASE DESIGNATE              | yn and serial ny.               |  |  |
|---|--------------------|-------------------|--|------------------|---------------------------------------|---------------------------------------|------------|---------------------------------------|---------------------------|-----------------------------|---------------------------------|--|--|
|   |                    |                   |  |                  |                                       |                                       |            |                                       |                           | SF-07900D-A                 |                                 |  |  |
| NELL CON                                  |                    |                   |  | LETI             | ON REP                                | ORT AND                               | LO         | G*                                    | & IF                      | INDIAN, ALLOTTI             | EE OR TRIBE NAME                |  |  |
| 1a TYPE OF WEL                            | I.,                | MEI 1             | GAS X                                      | DR               | Y Other                               |                                       |            |                                       | <u> </u>                  |                             |                                 |  |  |
| b Type of COM                             | PLETION.           |                   | •  |                  |                                       |                                       |            |                                       | ט ל                       | NIT AGREEMENT<br>San Juan : |                                 |  |  |
| NEW                                       | WORK               |                   | PLUG BACK                                  | ONF              | F Other                               |                                       |            |                                       | 8 F                       | ARM OR LEASE N              |                                 |  |  |
| , WEL                                     | L CVER             | EN EN             | □ BMCK □                                   | א ו              | SVRCOHA                               |                                       |            |                                       | 1                         | San Juan S                  | 31-6 Unit 7F                    |  |  |
| 2. NAME OF OPE                            | RATOR              |                   | <del></del>                                |                  |                                       |                                       |            | <del></del>                           | 9 A                       | PIWELL NO.                  |                                 |  |  |
| Conoco                                    |                    |                   |  |                  |                                       |                                       |            |                                       |                           | 30-039-296                  | 21-00C1                         |  |  |
| 3 ADDRESS AND                             | TELEPHON 4289, Fam |                   | U 07/00 /E                                 | ก๊อง             | 07/00 C                               |                                       | in Mi      |                                       | 300 h /                   | FIELD AND POOL,             | n ex news committee             |  |  |
| LOCATION OF                               | WELL /Repo         | ri location che   | Brity and m accor                          | dance,w          | th sny Stateling                      |                                       | 14 W       |                                       |                           |                             | anco MesaVerde.                 |  |  |
| Al surface                                |                    |                   | F9L & 660' <del>F</del> V                  |                  | There's Lander M.                     | A CONTRACTOR                          | ·          |                                       | 1                         | OR AREA                     |                                 |  |  |
|   |                    |                   | F  | Eļ-              |                                       | NOV O'                                | y 200      | 7                                     | }                         |                             | ROTW, NMPM                      |  |  |
| At top prod inte                          | rval reported      | below (           |  |                  |                                       | NOAR                                  | , 204      | •                                     | }                         | RC                          | VD NOV 13 '07                   |  |  |
| At total depth                            |                    |                   | 4  |                  | Bu                                    | reau of Land                          | Mar        | agement                               |                           | OI                          | L CONS. DIV.                    |  |  |
|   |                    |                   |  | 14 PE            | RMIT NO.                              | Familygion                            | Field<br>D | Unice                                 | 12. 7                     | COUNTY OR                   | 13. STATE                       |  |  |
|   |                    |                   |  | 1                |                                       |                                       |            |                                       |                           | PARISH                      | DIST. 3                         |  |  |
| 6 DATE SPUDDED                            | IB. DATE           | T D REACHET       | 17 DATE                                    | COMPL.           | Ready to prod                         | <del> </del>                          | líB, Fí    | EVATIONS [DF, F                       | KB. RT                    | Rio Arriba                  | New Mexico 19. ELEV. CASINGHEAD |  |  |
| 6/6/2007                                  | 6/20               | V2007             | 10   | 1/25/20          | 07                                    |                                       | GL         | 6321                                  | KB                        | 6333'                       |                                 |  |  |
| O TOTAL DEPTH. N                          | ID &/TVD           | 21. PLUG, E       | ACK T.D., MD &TV                           | VD 22            | IF MULTIPLE C                         |                                       |            | ERVALS<br>ILLEO BY                    | ROTA                      | RY TOOLS                    | CABLE TOOLS                     |  |  |
| 74 7074                                   | 7360               | 7855              |  |                  | 2                                     |                                       | "          | WELED B.                              | yes                       |                             | 1                               |  |  |
| PRODUCTION IN                             | TERVAL (S) OF      | THIS COMPL        | ETION-TOP, BOTT                            | OM, NAV          | E (MO AND TVO                         | )}*                                   |            |                                       | ·                         | 26. WAS DIREC               |                                 |  |  |
| Basin Dako                                | ta 7665°           | - 7850°           |  |                  |                                       |                                       |            |                                       |                           | SURVEY MA                   | No<br>No                        |  |  |
| 8. TYPE ELECTRIC                          | AND OTHER L        | OGS RUN           | <del></del>                                | ****             |                                       | <del></del>                           | ٠,٠        |                                       | 27. WA                    | S WELL CORED                | <del></del>                     |  |  |
| GR, CBL                                   |                    |                   |  |                  |                                       | ·                                     |            |                                       | <u> </u>                  | · <del>`</del>              | No                              |  |  |
| B,<br>CASING SIZE/GRAI                    | ac I wan           | HT.UB/FT          | L DOWN OFF #                               |                  | HOLE SIZE                             | (Report ell string                    |            |                                       |                           | ,                           |                                 |  |  |
| 9 5/8" H-40                               | 32.3               |                   | 225°                                       |                  | 1/4"                                  | surface: 75s                          |            | EMENTING RECO                         | JRU                       | 4 bbls                      | MOUNT PULLED                    |  |  |
| 7" J-55                                   | 20#                |                   | 3567                                       |                  | 3/4"                                  | surface; 113                          |            | (1777, cf).                           |                           | 60 bbis                     |                                 |  |  |
| - 4 1/2=J-55                              |                    |                   | <b>== 7078/д</b> и<br>ЕСОНО 17 <b>/</b> 77 |                  | )/ <del>4</del> :/                    | 30 2300 30                            | )79x       | (817 67)                              | , C.                      | JBING RECORE                |                                 |  |  |
|   |                    | TTOM (MD)         | SACKS CEMEN                                |                  | SCREEN (MD)                           | SIZE                                  |            | DEPTH SET                             |                           |                             | CKER SET (MD)                   |  |  |
|   |                    |                   |  |                  |                                       | 2-3/8*                                |            | 7733'                                 |                           |                             |                                 |  |  |
| PERFORATION R                             | ECORD (Iclana      | of size and our   | mber\                                      | - 65             |                                       | 1                                     | n euc      | TEDACTURE                             | CENE                      | NT SQUEEZE, I               | -12                             |  |  |
| 15PF                                      | DOO! D QUINA       | <u>,</u>          | <sub>1</sub>                               | 76               | 65' - 7850'                           |                                       |            | s15% HCL A                            |                           | 141 200EEZE, 1              | = 1 kr.                         |  |  |
| 365' - 7669' = 3                          | 3 holes            |                   |  |                  |                                       |                                       | 30,00      | gals Sitckwa                          | ster, w/38,000# 20/40 TLC |                             |                                 |  |  |
| 2SPF<br>379' - 7850' = (                  | 80 hotes           |                   |  | -                | · · · · · · · · · · · · · · · · · · · |                                       | <u> </u>   | <del></del>                           |                           |                             |                                 |  |  |
| otal holes = 6                            |                    |                   |  |                  |                                       | · · · · · · · · · · · · · · · · · · · |            | · · · · · · · · · · · · · · · · · · · |                           |                             |                                 |  |  |
|   |                    |                   |  | -                |                                       |                                       |            |                                       |                           |                             |                                 |  |  |
|   |                    |                   |  | <u> </u>         |                                       |                                       |            |                                       |                           |                             |                                 |  |  |
| _   |                    |                   |  |                  |                                       |                                       |            |                                       |                           |                             |                                 |  |  |
| TE SIRST PRODUCT                          | ion —              | FPCIDUC           | TION KETHOO!                               | lowing, as       | o al, Olimpia                         | CODUCTION OF DUTY                     | D), "      | * , * *                               |                           | WELL STATUS                 | Placering of causes)            |  |  |
| W/O Facilities                            | ****               |                   |  |                  | owing                                 |                                       | n.         |                                       |                           | 51                          | - Land &                        |  |  |
| TE OF TERT                                | HOURS              | :25120            | CHOKE SIZE                                 | PACON<br>TEST PE |                                       | ist                                   | GAS-I      | NGF                                   | WATI                      | R-BBL                       | GAS-OIL RATIO                   |  |  |
| 10/24/07                                  |                    | 1.                | .5"  |                  |                                       | 0                                     | 20 m       |                                       | <u>L</u>                  | 1/3 bwph                    |                                 |  |  |
| OW TUBING PRESS                           | CASING             | PRESSURE          | CALCULATED<br>24-HOUR RATE                 | OIL≕B            | B&                                    | GAS-MCF                               | ı          | WATER-88                              | n.                        |                             | OIL GRAVITY-API (CORR           |  |  |
| 70#                                       | Si 47              | 75#               |  | 0                |                                       | 470 mcf/d                             | 1          | 9 bwpd                                |                           |                             |                                 |  |  |
| 4 DISPOSITION OF                          | GAS (Sold. USB     | d for lust, venti | =  |                  |                                       |                                       |            |                                       |                           | TEST WITNESSE               | D BY                            |  |  |
| To be sold.                               |                    | ities to be       | set before f                               | first pr         | oduction.                             | <del></del> -                         |            |                                       |                           | L                           |                                 |  |  |
| This is a MV/C<br>6 I hereby certify that |                    |                   |  |                  | nect <b>as de</b> lermin              | ed from all available                 | records    | ·············                         |                           |                             |                                 |  |  |
| NEO-10-                                   |                    | ;<br>4=0-c        | <del>.</del>                               | g D-             | mulatow T-                            | choleti-                              |            |                                       | DATÉ                      | 11/7/7007                   |                                 |  |  |
| NED TOWN                                  |                    |                   | 7171                                       | - A              | gulatory Te                           | CHINCHELL                             |            |                                       | LAIL                      | 11/7/2007                   |                                 |  |  |

"(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any felse, fictilious or fraudulent statements or representations as to any matter within its jurisdiction.







#### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 31-6 Unit 8N is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the San Juan 31-6 Unit 7F has an elevation of 6321' and groundwater depth greater than 300'. The subject well has an elevation of 6281' which is 42' less than the San Juan 31-6 Unit 8N, therefore the groundwater depth is greater than 200'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

#### Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

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The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

## ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- COPC will design and construct a properly sized and approved BGT which will
  contain liquids and should prevent contamination of fresh water to protect the
  public health and environment.
- 2. COPC signage will comply with 19.15.3.103 NMAC when COPC is the operator. If COPC is not the operator it will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. COPC will construct a screened, expanded metal covering, on the top of the BGT.
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. COPC has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the COPC MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from COPC's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the COPC document.

#### 2) SWABLINE DRAIN LINE 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID DRAIN FROM **SEPARATORS** AUTOMATED OPERATION 1) VENT VALVE DRAIN LINE 2) DUMP LINE FROM SEPARATORS **SWABLINE** 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10" FROM TOP OF TANK VENT LINE **ENVIROMENTAL** DRAIN LINE 3" TRUCK LOADOUT CONNECTION SLOPE TO DRAIN TRUCK GROUND CONNECTION TO RTU -LAHH EXPANDED METAL COVER TO RTU :-DRAIN LINES FROM TANKS LSHH HINGED MANWAY 3' TRUCK LOAD LINE AL GRADE ΠRIGINAL CORROGATED RETAINING WALL HEIGHT 56" 4" SLOTTED. SA-36 "SUPER MUFFLER" 3/16" PLATE SA-36 1/4" PLATE **DURASKRIM J45 IMPERMEABLE** LINER FOR VISIBLE ص ً LEAK DETECTION **PROPERLY**

### ConocoPhillips

CONSTRUCTED /
FOUNDATION VOID OF
ANY SHARP OBJECTS

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

MANUAL OPERATION

1) PRODUCTION TANKS DRAINLINE

## DURA-SKRIV®

## J30, J36 a J45

| PROPERTIES                                      | TEST METHOD |                          | 0BB                      | J36                      | ВВ                       | J45                      | вв                       |  |
|---|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
|   |             | Min. Roll<br>Averages    | Typical Roll<br>Averages | Min. Roll<br>Averages    | Typical Roll<br>Averages | Min. Roll<br>Averages    | Typical Roll<br>Averages |  |
| Appearance                                      |             | Blaci                    | k/Black                  | Black/                   | Black                    | Black/                   | Black                    |  |
| Thickness?                                      | ASTM D 5199 | 27 mil                   | 30 mil                   | 32 mil                   | 36 mil                   | 40 mil                   | 45 mil                   |  |
| Weight*Lbs;Per:MSF<br>(oz/yd²)                  | ASTM D 5261 | 126 lbs<br>(18.14)       | 140 lbs<br>(20.16)       | 151 lbs<br>(21.74)       | 168 lbs<br>(24.19)       | 189 lbs<br>(27.21)       | 210 lbs<br>(30.24)       |  |
| Construction                                    |             | **Extr                   | usion laminated          | with encapsulat          | ed tri-direction         | al scrim reinforc        | ement                    |  |
| Ply Adhesion                                    | ASTM D 413  | 16 lbs                   | 20 lbs                   | 19 lbs                   | 24 lbs                   | 25 lbs                   | 31 lbs                   |  |
| 1. Tensile Strength                             | ASTM D 7003 | 88 lbf MD<br>63 lbf DD   | 110 lbf MD<br>79 lbf DD  | 90 lbf MD<br>70 lbf DD   | 113 lbf MD<br>87 lbf DD  | 110 lbf MD<br>84 lbf DD  | 138 lbf MD<br>105 lbf DD |  |
| 1" Tensile Elongation @<br>Break % (Film Break) | ASTM D 7003 | 550 MD<br>550 DD         | 750 MD<br>750 DD         | 550 MD<br>550 DD         | 750 MD<br>750 DD         | 550 MD<br>550 DD         | 750 MD<br>750 DD         |  |
| 1" Tensile Elongation @<br>Peak % (Scrim Break) | ASTM D 7003 | 20 MD<br>20 DD           | 33 MD<br>33 DD           | 20 MD<br>20 DD           | 30 MD<br>31DD            | 20 MD<br>20 DD           | 36 MD<br>36 DD           |  |
| Tongue Tear Strength                            | ASTM D 5884 | 75 lbf MD<br>75 lbf DD   | 97 lbf MD<br>90 lbf DD   | 75 lbf MD<br>75 lbf DD   | 104 lbf MD<br>92 lbf DD  | 100 lbf MD<br>100 lbf DD | 117 lbf MD<br>118 lbf DD |  |
| Grab Tensile                                    | ASTM D 7004 | 180 lbf MD<br>180 lbf DD | 218 lbf MD<br>210 lbf DD | 180 lbf MD<br>180 lbf DD | 222 lbf MD<br>223 lbf DD | 220 lbf MD<br>220 lbf DD | 257 lbf MD<br>258 lbf DD |  |
| Trapezoid Tear                                  | ASTM D 4533 | 120 lbf MD<br>120 lbf DD | 146 lbf MD<br>141 lbf DD | 130 lbf MD<br>130 lbf DD | 189 lbf MD<br>172 lbf DD | 160 lbf MD<br>160 lbf DD | 193 lbf MD<br>191 lbf DD |  |
| * Dimensional Stability                         | ASTM D 1204 | <1                       | <0.5                     | <1                       | <0.5                     | <1                       | <0.5                     |  |
| Puncture Resistance                             | ASTM D 4833 | 50 lbf                   | 64 lbf                   | 65 lbf                   | 83 lbf                   | 80 lbf                   | 99 lbf                   |  |
| Maximum Use Temperature                         |             | 180° F                   |  |
| Minimum Use Temperature                         |             | -70° F                   |  |

MD = Machine Direction DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX **800-635-3456** 



#### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

## ConocoPhillips Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

### ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Requirements:

- 1. COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of COPC's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. COPC shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - · Proof of closure notice