

District I
1625 French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: ConocoPhillips Company OGRID #: 217817
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: Maddox WN Federal 1
API Number: 30-045-09529 OCD Permit Number: _____
U/L or Qtr/Qtr H Section 13 Township 30N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.8155510 N Longitude -108.1503510 W NAD: ☐ 1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

OIL CONS. DIV DIST. 3

DEC 21 2016

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness 45 mil ☐ HDPE ☐ PVC ☒ Other LLDPE

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify _____

6.

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)

7.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

8.

Variations 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:

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

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. Siting criteria does not apply to drying pads or above-grade tanks.

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No
☒ NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☒ NA

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. (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. (**Does not apply to below grade tanks**)

- FEMA map

☐ Yes ☐ No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied 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

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet 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 search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Permanent Pit or Multi-Well Fluid Management Pit

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).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 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

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

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 NMAC
- ☐ 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 Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit 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.

- ☐ 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
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ 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

- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Permanently 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

13.
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 ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ 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 Burial
☐ Alternative Closure Method

14.
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 C of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
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. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> No

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 the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site 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.*

- ☐ 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 E of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

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): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ Approval Date: 1/9/2017

Title: Environmental Specialist OCD Permit Number: _____

19.

Closure Report (required within 60 days of closure completion): 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: 7/22/2016

20.

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.

21.

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 for private land only)
☐ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ 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 °N Longitude °W NAD: ☐ 1927 ☐ 1983

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, 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) Crystal Walker Title: Regulatory Coordinator

Signature:  Date: 12/19/16

e-mail address: crystal.walker@cop.com Telephone: (505) 326-9837

**ConocoPhillips Company
San Juan Basin
Below Grade Tank Closure Report**

**Lease Name: Maddox WN Federal 1
API No.: 30-045-09529**

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

1. COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 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) 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.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

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

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was 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.

The below-grade tank was disposed of in a division-approved manner.

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.

All on-site equipment associated with the below-grade tank was removed.

5. COPC will 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 analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

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	100
Chlorides	EPA 300.0	250

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.

A release was not determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I 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.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

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:
- Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification is attached.

9. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

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.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. 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.

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

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 below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation **(See Report)**
 - Re-vegetation application rates and seeding techniques **(See Report)**
 - Photo documentation of the site reclamation **(Included as an attachment)**
 - Confirmation Sampling Results **(Included as an attachment)**
 - Proof of closure notice **(Included as an attachment)**

Walker, Crystal

From: Roberts, Kelly G
Sent: Monday, July 18, 2016 9:07 AM
To: Cory Smith; Fields, Vanessa, EMNRD; Katherina Diemer (kdiemer@blm.gov); McKinney John (jmckinne@blm.gov); Porter Mike (mgporter@blm.gov)
Cc: Fincher, Shawn S; Busse, Dollie L; Roberts, Kelly G; Farrell, Juanita R; GRP:SJBU Regulatory; Jones, Lisa; SJBU E-Team
Subject: 72 Hour BGT Closure Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Friday July 22, 2016, 8:00 am

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name: Maddox WN Federal 1

API#: 30-045-09529

Location: Unit H (SE/NE), Section 13, T30N, R13W, San Juan County, New Mexico

Footages: 1650' FNL & 990' FEL

Operator: ConocoPhillips

Surface Owner: BLM (NM-0546)

Kelly G. Roberts

ConocoPhillips Co.
Rockies Business Unit
San Juan Asset
Regulatory Technician
505-326-9775
505-330-7921

District I
1625 N. Frehch Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office to
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	ConocoPhillips Company	Contact	Crystal Walker
Address	3401 East 30 th St, Farmington, NM	Telephone No.	(505) 326-9837
Facility Name	Maddox WN Federal 1	Facility Type	Gas Well
Surface Owner	BLM	Mineral Owner	BLM
		API No.	30-045-09529

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	13	30N	13W	1650	North	990	East	San Juan

Latitude 36.815567 Longitude -108.0150829

NATURE OF RELEASE


Type of Release	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
No release was encountered during the BGT Closure.

Describe Area Affected and Cleanup Action Taken.*
N/A

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Crystal Walker	Approved by Environmental Specialist:	
Title: Regulatory Coordinator	Approval Date:	Expiration Date:
E-mail Address: crystal.walker@cop.com	Conditions of Approval:	
Date: 12/19/16 Phone: (505) 326-9837	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



October 5, 2016

Project Number 96052-2544

Ms. Lisa Hunter
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87402

Phone (505) 326-9525

RE: LINE DRIP CLOSURE REPORT FOR THE MADDOX WN FEDERAL #1 WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Hunter:

Enclosed please find the *Line Drip Closure Report* detailing line drip closure activities conducted at the Maddox WN Federal #1 well site located in Section 13, Township 30 North, Range 13 West, San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

A handwritten signature in blue ink, appearing to read 'Isaac Garcia', is written over a horizontal line.

Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Enclosure: *Line Drip Closure Report*

Cc: Client File Number 96052

LINE DRIP CLOSURE REPORT

**LOCATED AT:
MADDOX WN FEDERAL #1 WELL SITE
SECTION 13, TOWNSHIP 30 NORTH, RANGE 13 WEST
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
CONOCOPHILLIPS
MS. LISA HUNTER
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87402**

**PROJECT NUMBER 96052-2544
JULY 2016**

**CONOCOPHILLIPS
LINE DRIP CLOSURE REPORT
MADDOX WN FEDERAL #1 WELL SITE
SECTION 13, TOWNSHIP 30 NORTH, RANGE 13 WEST
SAN JUAN COUNTY, NEW MEXICO**

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STATEMENT OF LIMITATIONS.....	2

Figures: Figure 1, Vicinity Map
 Figure 2, Site Map

Tables: Table 1, Summary of Analytical Results

Appendices: Appendix A, Field Notes
 Appendix B, Analytical Results

INTRODUCTION

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, has been contracted by ConocoPhillips to perform line drip and below ground tank (BGT) closure activities at the Maddox WN Federal #1 well site located in Section 13, Township 30 North, Range 13 West, San Juan County, New Mexico; see enclosed Figure 1, Vicinity Map. The scope of work included field screening, sample collection, laboratory analysis, transportation, decontamination, disposal, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech personnel conducted line drip and BGT closure activities starting July 25, 2016 through July 27, 2016. Upon arrival, a brief site assessment was conducted and a Job Safety Analysis (JSA) was completed. Due to a horizontal distance to surface water between 200 and 1000 feet from the site, a depth to groundwater greater than 100 feet, and the well site not being located within a well head protection area, the line drip closure regulatory standard for this site was determined to be 1000 parts per million (ppm) total petroleum hydrocarbons (TPH), 100 ppm organic vapors, 50 ppm BTEX, and 10 ppm benzene pursuant to New Mexico Oil Conservation Division's (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The regulatory standard for mercury was determined to be 23.8 mg/kg pursuant to the New Mexico Environment Department (NMED) Risk Assessment Guidance for Investigations and Remediation. The BGT closure regulatory standard was determined to be 20,000 mg/kg for chlorides using USEPA Method 300.0, 2,500 mg/kg for TPH using USEPA Method 418.1, 1,000 mg/kg for TPH gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8015D, 50 mg/kg for BTEX, and 10 mg/kg for benzene using USEPA Method 8021B pursuant to New Mexico Administrative Code; Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed.

The line drip was cold cut and screened for mercury vapor in one (1) location using a Jerome Mercury Vapor Analyzer (MVA). The mercury vapor reading was above the National Institute for Occupational Safety and Health (NIOSH) Permissible Exposure Limit (PEL) of 0.05 mg/m³; see enclosed *Appendix A, Field Notes*. Envirotech personnel collected a sample of the line drip contents and submitted the sample for mercury analysis. The sample returned results below the regulatory standard of 23.8 mg/kg for total mercury; see enclosed *Appendix B, Analytical Results*. ConocoPhillips contracted M&R Trucking to pump out and dispose of the line drip contents.

One (1) five (5)-point composite soil sample was collected from beneath the line drip; see enclosed *Figure 2, Site Map* for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and organic vapors using a photoionization detector (PID). The sample returned results below the regulatory standard for TPH and for organic

vapor; see enclosed **Table 1, Summary of Analytical Results** and **Appendix A, Field Notes**. The sample was then placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D, Benzene and total BTEX using USEPA Method 8021B, and total mercury using USEPA Method 6010C. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**.

Naturally occurring radioactive material (NORM) screening was conducted on the line drip. Results were below the allowable concentration of two (2) times the background concentration; see enclosed **Appendix A, Field Notes**. Additionally, suspect asbestos containing material (ACM) was suspected in the line drip coating. One (1) sample of the line drip coating was collected and submitted to EMC Labs for asbestos analysis. The sample returned a positive result for asbestos. The line drip was double wrapped in six (6) millimeter poly sheeting and loaded for transportation to Envirotech's decontamination facility. The line drip was decontaminated and transported to Valley Scrap for recycling. All disposal documentation will be submitted to the generator upon final disposal.

One (1) five (5)-point composite soil sample was collected from beneath the former BGT; see enclosed **Figure 2, Site Map** for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standard for TPH and for organic vapor; see enclosed **Appendix A, Field Notes**. The sample was then placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 300.0, TPH using USEPA Method 418.1, TPH GRO and DRO using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8021B. The sample returned a result below the regulatory standard for all constituents analyzed; see enclosed **Table 2, Summary of Analytical Results** and **Appendix B, Analytical Results**.

SUMMARY AND CONCLUSIONS

Envirotech performed line drip and BGT closure activities at the Maddox WN Federal #1 well site located in Section 13, Township 30 North, Range 13 West, San Juan County, New Mexico. The line drip was removed, decontaminated, and transported to Valley Scrap for recycling. Envirotech, Inc. recommends *No Further Action* in regards to this project.

STATEMENT OF LIMITATIONS

Envirotech has completed line drip closure activities at the Maddox WN Federal #1 well site. The work and services provided by Envirotech were in accordance with the NIOSH, NMOCD, NMAC, and USEPA regulatory standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of

the project.

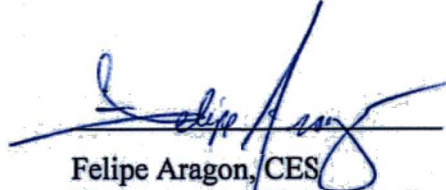
We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.



Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Reviewed by:



Felipe Aragon, CES
Environmental Field Coordinator
faragon@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



LEGEND

X Mercury Vapor
Sample Location

X Soil Sample
Location

X BGT Sample
Location

⊕ Well Head

SITE MAP ConocoPhillips

Maddox WN Federal #1

SECTION 13, TWP 30 NORTH, RANGE 13 WEST
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 2

REV

PROJECT NO96052-2544

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	IG	9/23/16	BASE DRWN IG 9/23/16

 **envirotech**

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 2, Summary of Analytical Results
(BGT)

Table 1, Summary of Analytical Results

ConocoPhillips
Maddox WN Federal #1
Line Drip Closure Report
Project Number 96052-2544

Date	Sample Description	Sample Number	PID OV (mg/kg)	USEPA Method 418.1 TPH (mg/kg)	USEPA Method 6010C Total Mercury (mg/kg)	USEPA Method 8015D TPH (mg/kg)	USEPA Method 8021B	
							Benzene (mg/kg)	BTEX (mg/kg)
NA	NMOCD, NMED and USEPA Regulations	NA	100	1,000	23.8	1,000	10	50
7/25/2016	Line Drip Comp.	1	0	64	ND	ND	ND	ND

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled

*ND - Parameter not detected

*Closure Sample

Table 2, Summary of Analytical Results

ConocoPhillips
Maddox WN Federal #1
BGT Closure Report
Project Number 96052-2544

Date	Sample Description	Sample Number	Method 300.0 Chlorides (mg/kg)	USEPA Method 418.1 TPH (mg/kg)	USEPA Method 8015 TPH (GRO+DRO) (mg/kg)	USEPA Method 8021	
						Benzene (mg/kg)	BTEX (mg/kg)
NA	New Mexico Administrative Code Standards	NA	20,000	2,500	1,000	10	50
7/25/2016	BGT Comp	1	ND	ND	ND	ND	ND

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled

*ND - Parameter not detected

APPENDIX A

Field Notes

CLIENT: Conoco PhillipsCLIENT/JOB #: 96052-2544START DATE: 7-25-16

FINISH DATE: _____

Page # 1 of 1Environmental Specialist: F. Burns

C.O.C. No: _____

LAT 36-815567LONG -108.150829

FIELD REPORT: LINE DRIP CLOSURE VERIFICATION

LOCATION: NAME: Maddox Fed WELL #: #1 Land Owner: BLM API: _____ ST: _____
LEGAL ADD: UNIT SEC: TWP: RNG: PM: QTR/FOOTAGE: CNTY: _____
LINE DRIP DIMENSIONS: LENGTH 7' DIAMETER 2' PLUGS: 3 (2-4in, 1-2in)
CONSTRUCTION MATERIAL: Steel PIPE COATING Y/N: yes
MERCURY VAPOR ACTION LIMIT: .05 CLOSURE STANDARD TPH: 1000
LOCATION APPROXIMATELY 3540 feet and 223 degrees from wellhead

NOTES: Arrived to located @ 9:00 am. Performed site assessment/SSA cut one pipe ~~test~~, screened for Hg. Returned results above action limit, indicating presence of Hg

FIELD TPH 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)
200 Standard	10:16			—	—	—	183	
Line Drip Comp	10:18			5	20	4	16	68

NORM

BACKGROUND READING				ALLOWABLE CONCENTRATION (2 TIMES BACKGROUND)			
pancake	Probe #1	<u>.02</u>	mR/hr	Probe #1	<u>.04</u>	mR/hr	
scintillation	Probe #2	<u>.2</u>	mR/hr	Probe #2	<u>.4</u>	mR/hr	
ACM Asbestos Containing Material Samples Collected							
Time	Sample ID	Description	Probe 1	Probe 2	Time	Sample ID	Description
12:00	1	line drip	.02	.2	12:30	1	line drip-pipe coating

Lead Samples Collected				
Time	Sample ID	Lead Paint Pen Results D/ND	Lab Test Sample Y/N	Description

Organic Vapor PID RESULTS		MERCURY READINGS			LAB SAMPLES	
SAMPLE ID	RESULTS (mg/kg)	SAMPLE ID	READING	TEMP	SAMPLE ID	ANALYSIS
Line Drip	0.0	1	HL	81		

Date: _____ Analyst Signature: _____ Who Ordered/Site Rep.: _____
WO #: _____ Printed Name: _____

CLIENT: CanocoPhillips
CLIENT/JOB # 96052-2544
START DATE: 7-25-16
FINISH DATE: 7-25-16
Page # 1 of 1



Environmental Specialist: F. Burns
C.O.C. No: 36.815567
LAT 36.815567
LONG -108.150829

FIELD REPORT: BELOW GROUND TANK VERIFICATION

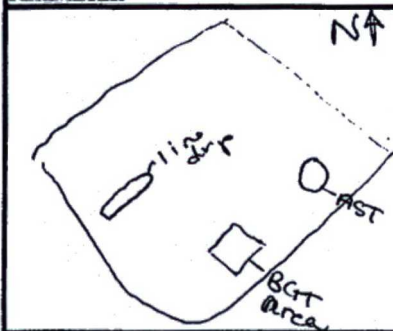
LOCATION NAME: Maddox WN Fed #1 WELL #: #1 Temp Pit: ☒ PERM Pit: ☐
QUAD/UNIT: SEC: 13 TWP: 30N RNC: 13W PM:
QTR/FOOTAGE: CNTY: Saffron ST: NM
Excavation Approx: 10 Feet X 10 Feet X 2 Feet Deep Cubic Yardage:
Disposal Facility: Remediation Method:
Land Owner: API: Pit Volume: unknown
Construction Material: unknown Double Walled, With Leak Detection:

<input type="checkbox"/> Temporary Pit Groundwater < or = 50 feet deep	Chloride 600mg/kg. TPH 100 mg/kg. BTEX 50 mg/kg. Benzene 10 mg/kg
<input type="checkbox"/> Temporary Pit Groundwater 51-100 feet deep	Chloride 10,000 mg/kg. TPH 2,500 mg/kg. GRO+DRO 1,000 mg/kg. BTEX 50 mg/kg. Benzene 10 mg/kg
<input checked="" type="checkbox"/> Temporary Pit Groundwater > or = 100 feet deep	Chloride 20,000 mg/kg. TPH 2,500 mg/kg. GRO+DRO 1,000 mg/kg. BTEX 50 mg/kg. Benzene 10 mg/kg
<input type="checkbox"/> Permanent Pit Or BGT	?

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)
Beneath BGT	9:15	1		5	2e	4	203	810
200 Standard	9:10						183	

PERIMETER



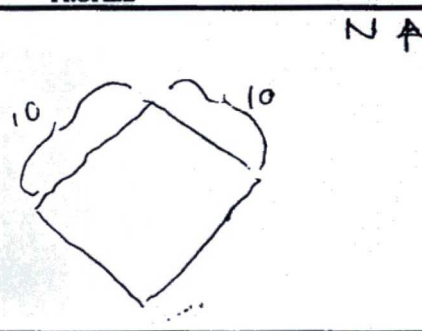
FIELD CHLORIDES RESULTS

SAMPLE ID	READING	CALC. (mg/kg)

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
1	0

PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	US EPA
1	BENZENE	8021B/8015M
1	BTEX	8021B/80260B
1	GRO & DRO	8015M GRO
1	CHLORIDES	EPA300
1	TPH	418.1

NOTES:

Collected 5-pt. composite sample under supervision of NMOC (Cory Smith)
Screened for TPH and OV.
Submitted sample to lab
Bobby Spearman

WO #:

Who ordered/Site Rep.:

Spearman

Falynn Burns
Analyst Signature

7-25-16
Date

Falynn Burns
Printed Name

APPENDIX B

Analytical Results



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 25-Jul-16

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	183
	200	
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst

Isaac Garcia

Print Name


Review

Felipe Aragon, CES

Print Name

9/23/2016

Date

9/23/2016

Date



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips
Sample No.: 1
Sample ID: BGT Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 96052-2544
Date Reported: 9/23/2016
Date Sampled: 7/25/2016
Date Analyzed: 7/25/2016
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons

812

5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Maddox WN Federal #1

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Isaac Garcia
Printed


Review

Felipe Aragon, CES
Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips
Sample No.: 2
Sample ID: Line Drip Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 96052-2544
Date Reported: 9/23/2016
Date Sampled: 7/25/2016
Date Analyzed: 7/25/2016
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	64	5.0
------------------------------	----	-----

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Maddox WN Federal #1


Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Isaac Garcia

Printed



Review

Felipe Aragon, CES

Printed



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 7/22/2016 2:03:00PM

Job Number: 96052-2544

Work Order: P607060

Project Name/Location: Maddox WN Fed #1 Line
Drip Pull

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Date: 7/25/16

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain' followed by 'TC' to the right, written over a horizontal line.

Date: 7/25/16

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 Line Drip Pull
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
25-Jul-16 16:06

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Line Drip Liquid	P607060-01A	Water	07/22/16	07/22/16	Poly 250mL
	P607060-01B	Water	07/22/16	07/22/16	Poly 250mL

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 Line Drip Pull
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
25-Jul-16 16:06

Line Drip Liquid
P607060-01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
TCLP Mercury by EPA 7470A										
Mercury	0.004	0.0002	mg/L	1	1630012	07/22/16	07/25/16	EPA 7470A		
Total Mercury by EPA 7470A										
Mercury	0.22	0.02	mg/L	100	1630012	07/22/16	07/25/16	EPA 7470A		

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envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 Line Drip Pull
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
25-Jul-16 16:06

TCLP Mercury by EPA 7470A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1630012 - Mercury Water Digestion KMNO4										
Blank (1630012-BLK1)				Prepared: 22-Jul-16 Analyzed: 25-Jul-16						
Mercury	ND	0.0002	mg/L							
LCS (1630012-BS1)				Prepared: 22-Jul-16 Analyzed: 25-Jul-16						
Mercury	0.001	0.0002	mg/L	0.00114		96.0	80-120			
Matrix Spike (1630012-MS1)				Source: P607049-01 Prepared: 22-Jul-16 Analyzed: 25-Jul-16						
Mercury	0.001	0.0002	mg/L	0.00114	ND	103	75-125			
Matrix Spike Dup (1630012-MSD1)				Source: P607049-01 Prepared: 22-Jul-16 Analyzed: 25-Jul-16						
Mercury	0.001	0.0002	mg/L	0.00114	ND	102	75-125	0.697	15	

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5796 US Highway 64, Farmington, NM 87401

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Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 Line Drip Pull
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
25-Jul-16 16:06

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

Client: Conoco Phillips
 Project: Line Drip Pool - Maddox WNI Fed #1
 Sampler: F. Burns
 Phone: (505) 947-9179
 Email(s): Falynn, Felipe, Greg, Kory
 Project Manager: Greg Crabtree

RUSH?
☒ 1d
☐ 3d

Lab Use Only		Analysis and Method							Lab Only		
Lab WO# P607060		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals Hg (No Rush)	CO Table 910-1	TDS	Tot Hg (Rush)	Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number 96052-2544											

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals Hg (No Rush)	CO Table 910-1	TDS	Tot Hg (Rush)	Lab Number	Correct Cont/Prsrv (s) Y/N
Line Drip Liquid	7-22-16	10:00	A	2-250ml/poly/ cool					X			X	1	Y
Relinquished by: (Signature) <u>Falynn Burns</u>	Date 7-22-16	Time 13:50	Received by: (Signature) <u>Greg Crabtree</u>	Date 7-22-16	Time 14:03	Lab Use Only								
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 <u>4.0</u> T2 <u>4.0</u> T3 _____ AVG Temp °C <u>4.0</u>								

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area. Chain of Custody

Notes/Billing info: Visible ice in cooler - in
Condensate/stinky/mercury vapors



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 7/22/2016 2:03:00PM

Job Number: 96052-2544

Work Order: P607061

Project Name/Location: Maddox WN Fed #1 BGT
Closure

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman'.

Date: 7/29/16

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain'.

Date: 7/29/16

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Below BGT	P607061-01A	Solid	07/22/16	07/22/16	Glass Jar, 4 oz.
	P607061-01B	Solid	07/22/16	07/22/16	Glass Jar, 4 oz.

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Below BGT
P607061-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %		50-150		1630015	07/22/16	07/27/16	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1		1630015	07/22/16	07/27/16	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1		1630011	07/22/16	07/26/16	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %		50-150		1630015	07/22/16	07/27/16	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1		1630011	07/22/16	07/26/16	EPA 8015D	
Surrogate: n-Nonane		96.3 %		50-200		1630011	07/22/16	07/26/16	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	40.0	mg/kg	1		1631001	07/26/16	07/26/16	EPA 418.1	
Cation/Anion Analysis										
Chloride	ND	20.0	mg/kg	1		1630014	07/22/16	07/27/16	EPA 300.0	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1630015 - Purge and Trap EPA 5030A										
Blank (1630015-BLK1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.159		"	0.160		99.6	50-150			
LCS (1630015-BS1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Benzene	11.5	0.10	mg/kg	10.0		115	70-130			
Toluene	11.2	0.10	"	10.0		112	70-130			
Ethylbenzene	11.3	0.10	"	10.0		113	70-130			
p,m-Xylene	22.4	0.20	"	20.0		112	70-130			
o-Xylene	11.0	0.10	"	10.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	0.162		"	0.160		101	50-150			
Matrix Spike (1630015-MS1)				Source: P607061-01		Prepared: 22-Jul-16 Analyzed: 27-Jul-16				
Benzene	10.6	0.10	mg/kg	10.0	ND	106	54.3-133			
Toluene	10.3	0.10	"	10.0	ND	103	61.4-130			
Ethylbenzene	10.3	0.10	"	10.0	ND	103	61.4-133			
p,m-Xylene	20.5	0.20	"	20.0	ND	103	63.3-131			
o-Xylene	10.1	0.10	"	10.0	ND	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	0.161		"	0.160		101	50-150			
Matrix Spike Dup (1630015-MSD1)				Source: P607061-01		Prepared: 22-Jul-16 Analyzed: 27-Jul-16				
Benzene	11.0	0.10	mg/kg	10.0	ND	110	54.3-133	3.71	20	
Toluene	10.7	0.10	"	10.0	ND	107	61.4-130	3.78	20	
Ethylbenzene	10.7	0.10	"	10.0	ND	107	61.4-133	3.83	20	
p,m-Xylene	21.3	0.20	"	20.0	ND	106	63.3-131	3.69	20	
o-Xylene	10.5	0.10	"	10.0	ND	105	63.3-131	3.76	20	
Surrogate: 4-Bromochlorobenzene-PID	0.161		"	0.160		100	50-150			

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Maddox WN Fed #1 BGT Closure Project Number: 96052-2544 Project Manager: Greg Crabtree	Reported: 29-Jul-16 11:19
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1630011 - DRO Extraction EPA 3550M										
Blank (1630011-BLK1)				Prepared: 21-Jul-16 Analyzed: 25-Jul-16						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	45.3		"	50.0		90.6	50-200			
LCS (1630011-BS1)				Prepared: 21-Jul-16 Analyzed: 25-Jul-16						
Diesel Range Organics (C10-C28)	399	25.0	mg/kg	500		79.8	38-132			
Surrogate: n-Nonane	40.5		"	50.0		81.0	50-200			
Matrix Spike (1630011-MS1)				Source: P607050-01		Prepared: 21-Jul-16 Analyzed: 25-Jul-16				
Diesel Range Organics (C10-C28)	1070	25.0	mg/kg	500	685	76.4	38-132			
Surrogate: n-Nonane	44.7		"	50.0		89.4	50-200			
Matrix Spike Dup (1630011-MSD1)				Source: P607050-01		Prepared: 21-Jul-16 Analyzed: 25-Jul-16				
Diesel Range Organics (C10-C28)	1050	25.0	mg/kg	500	685	72.1	38-132	2.01	20	
Surrogate: n-Nonane	44.5		"	50.0		89.1	50-200			

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1630015 - Purge and Trap EPA 5030A										
Blank (1630015-BLK1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.162		"	0.160		101	50-150			
LCS (1630015-BS1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Gasoline Range Organics (C6-C10)	137	20.0	mg/kg	122		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.160		"	0.160		100	50-150			
Matrix Spike (1630015-MS1)				Source: P607061-01 Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Gasoline Range Organics (C6-C10)	133	20.0	mg/kg	122	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.170		"	0.160		106	50-150			
Matrix Spike Dup (1630015-MSD1)				Source: P607061-01 Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Gasoline Range Organics (C6-C10)	133	20.0	mg/kg	122	ND	110	70-130	0.376	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.164		"	0.160		102	50-150			

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Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1631001 - 418 Freon Extraction										
Blank (1631001-BLK1)				Prepared & Analyzed: 26-Jul-16						
Total Petroleum Hydrocarbons	ND	40.0	mg/kg							
LCS (1631001-BS1)				Prepared & Analyzed: 26-Jul-16						
Total Petroleum Hydrocarbons	914	40.0	mg/kg	1000		91.4	80-120			
Matrix Spike (1631001-MS1)				Source: P607056-02 Prepared & Analyzed: 26-Jul-16						
Total Petroleum Hydrocarbons	932	40.0	mg/kg	1000	ND	93.2	70-130			
Matrix Spike Dup (1631001-MSD1)				Source: P607056-02 Prepared & Analyzed: 26-Jul-16						
Total Petroleum Hydrocarbons	932	40.0	mg/kg	1000	ND	93.2	70-130	0.00	30	

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PO Box 2200
Bartlesville OK, 74005

Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1630014 - Anion Extraction EPA 300.0										
Blank (1630014-BLK1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Chloride	ND	20.0	mg/kg							
LCS (1630014-BS1)				Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Chloride	510	20.0	mg/kg	500		102	90-110			
Matrix Spike (1630014-MS1)				Source: P607050-01 Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Chloride	1300	20.0	mg/kg	500	768	106	80-120			
Matrix Spike Dup (1630014-MSD1)				Source: P607050-01 Prepared: 22-Jul-16 Analyzed: 27-Jul-16						
Chloride	1320	20.0	mg/kg	500	768	110	80-120	1.48	20	

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Project Name: Maddox WN Fed #1 BGT Closure
Project Number: 96052-2544
Project Manager: Greg Crabtree

Reported:
29-Jul-16 11:19

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Project Manager: Gracy Crabtree

	1d
	3d

96052-2544

Page 1 of 1

lab Only

Relinquished by: (Signature) <i>Talynn Buer</i>	Date 7-22-16	Time 13:50	Received by: (Signature) <i>Donna Z...</i>	Date 7/22/16	Time 14:03	Lab Use Only **Received on Ice <input checked="" type="checkbox"/> N T1 <u>4.0</u> T2 <u>4.0</u> T3 _____ AVG Temp °C <u>4.0</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

*Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Notes/Billing Info: Visable ice in cooler - in



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