

District I  
1625 N. 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

15889  
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: Burlington Resources Oil & Gas Company, LP OGRID #: 14538  
Address: PO BOX 4289, Farmington, NM 87499  
Facility or well name: SUMMIT B #5  
API Number: 30-045-60273 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr F Section 33 Township 29N Range 11W County: San Juan  
Center of Proposed Design: Latitude 36.68498 °N Longitude -107.9997 °W NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

OIL CONS. DIV DIST. 3

APR 05 2017

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 \_\_\_\_\_

\* BGT Closed prior to required approved Closure Plan.

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.  
**Variances 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.  
**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, 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	



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) *See Front*  
**OCD Representative Signature:** *[Signature]* **Approval Date:** *4/11/2017*  
**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: *1/3/2017*

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



22.

**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) Christine Brock Title: Regulatory Specialist

Signature: \_\_\_\_\_ Date: 3/30/2017

e-mail address: christine.brock@cop.com Telephone: (505) 326-9775



**Burlington Resources Oil & Gas Company, LP  
San Juan Basin  
Below Grade Tank Closure Report**

**Lease Name: SUMMIT B #5**

**API No.: 30-045-60273**

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. BR 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, BR 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. BR 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. BR 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 BR 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. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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 BR or the division determines that a release has occurred, then BR 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 BR 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 BR'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. BR 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)**

**From:** Walker, Crystal  
**Sent:** Wednesday, December 28, 2016 12:50 PM  
**To:** Cory Smith; Fields, Vanessa, EMNRD; Whitney Thomas (l1thomas@blm.gov)  
**Cc:** Trujillo, Fasho D; Farrell, Juanita R; GRP:SJBU Regulatory; Jones, Lisa; SJBU E-Team  
**Subject:** BGT Closure Notification: Summit B 5

Approximate State Date & Time: **Tuesday, January 3<sup>rd</sup>, 2017 at 10:00AM**

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: Summit B 5

API#: 30-045-60273

Location: F – 33 – 29N – 11W

Footages: 1650' FNL & 1650' FWL

Operator: Burlington Resources                      Surface Owner: PRIVATE

Thank you,  
**Crystal Walker**  
Regulatory Coordinator  
ConocoPhillips Lower 48

T: 505-326-9837 | M: 505-793-2398 | [crystal.walker@cop.com](mailto:crystal.walker@cop.com)

Visit the new Lower 48 website:  
[www.conocophillipsuslower48.com](http://www.conocophillipsuslower48.com)





ConocoPhillips Company  
Surface Land – San Juan  
Lisabeth Jones  
3401 East 30<sup>th</sup> Street  
Farmington, NM 87402  
Telephone: (505) 326-9558  
Facsimile: (505) 324-6136  
[lisabeth.s.jones@conocophillips.com](mailto:lisabeth.s.jones@conocophillips.com)

CERTIFIED MAIL – RETURN RECEIPT REQUESTED  
9214 7969 0099 9790 1005 6495 08

December 28, 2016

Michael Farrell  
1561 Doran Dr.  
Las Vegas, NV 89123

Subject: **SUMMIT B 5**  
API: 30-045-60273  
Unit F(SENW) Section 33, T29N, R11W  
San Juan County, New Mexico

Dear Landowners:

Pursuant to New Mexico Administrative Code § 19.15.17.13 (E) (1) operator shall provide the surface owner of the operator's proposal to close a below-grade tank.

In compliance with this requirement, please consider this letter as notification that ConocoPhillips intends to close a below-grade tank on the subject well pad. The closure process will begin between 72 hours and one week from this notification.

If you have any questions regarding this work, please call the Surface Land hotline at (505) 324-6111.

Sincerely,

*Lisa Jones*  
Lisa Jones  
Surface Land Tech

District I<sup>1</sup>  
1625 N. French 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 Burlington Resources	Contact Christine Brock	
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No. (505) 326-9775	
Facility Name: Summit B #5	Facility Type: Gas Well	
Surface Owner Private	Mineral Owner Federal	API No. 30-045-60273

**LOCATION OF RELEASE**

Unit Letter <b>F</b>	Section <b>33</b>	Township <b>29N</b>	Range <b>11W</b>	Feet from the <b>1650</b>	North/South Line <b>North</b>	Feet from the <b>1650</b>	East/West Line <b>West</b>	County <b>San Juan</b>
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	---------------------------

Latitude 36.68498 Longitude -107.997

**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: <i>Christine Brock</i>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Christine Brock	Approved by Environmental Specialist:		
Title: Regulatory Specialist	Approval Date:	Expiration Date:	
E-mail Address: christine.brock@cop.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3/30/2017 Phone: (505) 326-9775			

\* Attach Additional Sheets If Necessary





January 13, 2017

Project Number 92115-2680

Ms. Lisa Hunter  
ConocoPhillips  
3401 East 30<sup>th</sup> Street  
Farmington, New Mexico 87402

Phone (505) 326-9525

**RE: LINE DRIP AND BELOW GRADE TANK (BGT) CLOSURE REPORT FOR THE SUMMIT B #5 (hBr) WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Hunter:

Enclosed please find the *Line Drip* and *BGT Closure Report* detailing line drip and BGT closure activities conducted at the Summit B #5 (hBr) well site located in Section 33, Township 29 North, Range 11 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](mailto:igarcia@envirotech-inc.com)

Enclosure: *Line Drip Closure Report*

Cc: Client File Number 92115

# **LINE DRIP AND BGT CLOSURE REPORT**

**LOCATED AT:  
SUMMIT B #5 (HBR) WELL SITE  
SECTION 33, TOWNSHIP 29 NORTH, RANGE 11 WEST  
SAN JUAN COUNTY, NEW MEXICO**

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

**PROJECT NUMBER 92115-2680  
JANUARY 2017**



**CONOCOPHILLIPS**  
**LINE DRIP AND BGT CLOSURE REPORT**  
**SUMMIT B #5 (HBR) WELL SITE**  
**SECTION 33, TOWNSHIP 29 NORTH, RANGE 11 WEST**  
**SAN JUAN COUNTY, NEW MEXICO**

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<b>STATEMENT OF LIMITATIONS .....</b>	<b>2</b>

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               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 Summit B #5 (hBr) well site located in Section 33, Township 29 North, Range 11 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 on January 3, 2017. Upon arrival, a brief site assessment was conducted and a Job Safety Analysis (JSA) was completed. Due to a horizontal distance to surface water less than 200 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 100 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 250 mg/kg for chlorides using USEPA Method 300.0, 100 mg/kg for TPH gasoline range organics (GRO), diesel range organics (DRO), and oil range organics using USEPA Method 8015D, 50 mg/kg for BTEX, and 0.2 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 three (3) locations using a Jerome Mercury Vapor Analyzer (MVA). The mercury vapor readings were below the National Institute for Occupational Safety and Health (NIOSH) Permissible Exposure Limit (PEL) of 0.05 mg/m<sup>3</sup>; see enclosed **Appendix A, Field Notes**.

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*. No suspect asbestos containing material (ACM) was present in the line drip coating. However, there was approximately 30 to 40 feet of two (2) inch suspect ACM pipe on site. The suspect ACM pipe was scheduled to be picked up at a later date. Disposal documentation will be submitted to the generator upon completion. The line drip was lifted 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 (GRO, DRO, and ORO) 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 Summit B #5 (hBr) well site located in Section 33, Township 29 North, Range 11 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 and BGT closure activities at the Summit B #5 (hBr) well site. The work and services provided by Envirotech were in accordance with the NIOSH, NMOCD, NMAC, and NMED regulatory standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the project.

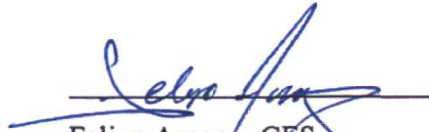
We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,  
**ENVIROTECH, INC.**



Isaac Garcia  
Environmental Field Technician  
[igarcia@envirotech-inc.com](mailto:igarcia@envirotech-inc.com)

Reviewed by:



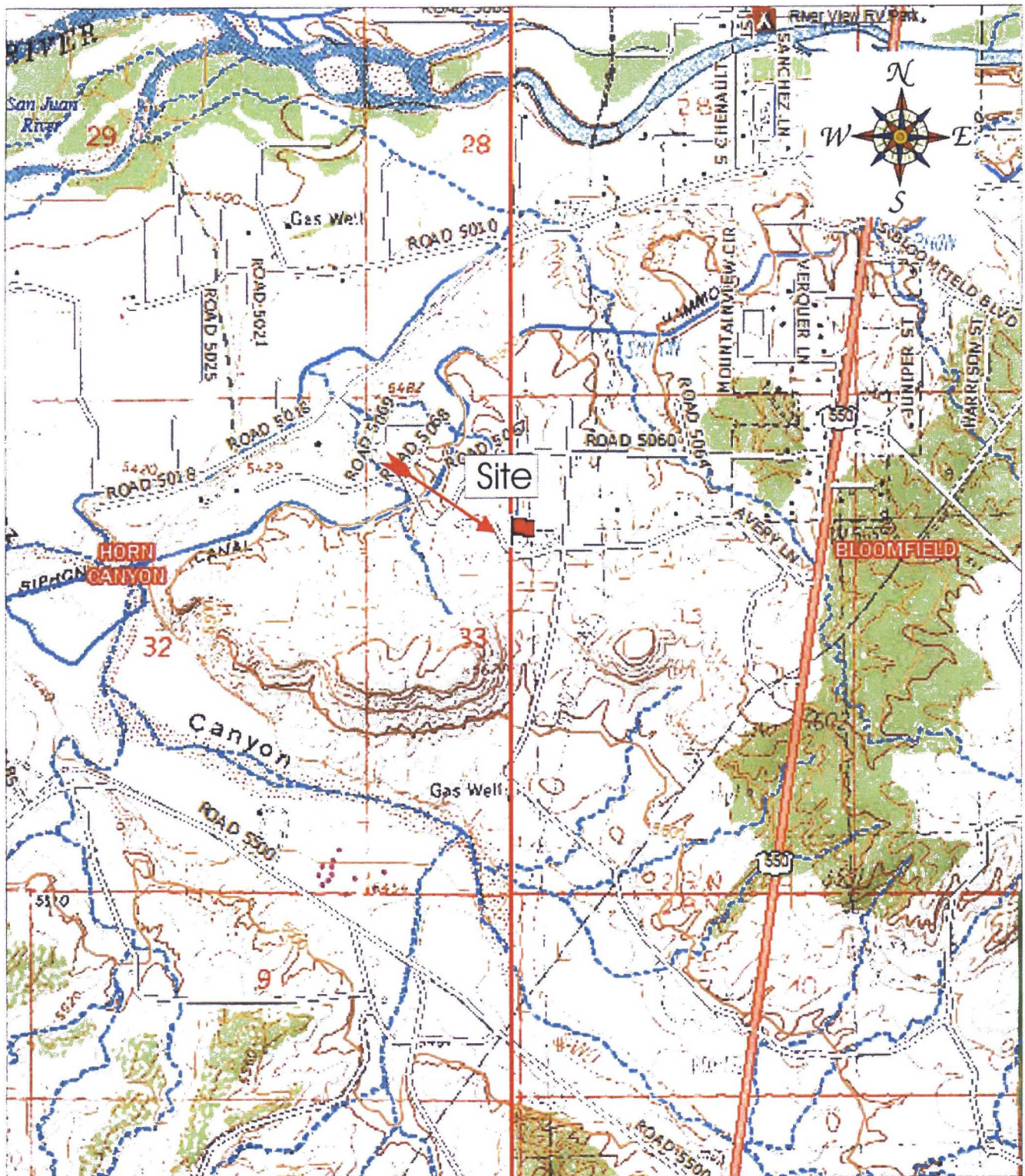
Felipe Aragon, CES  
Environmental Field Coordinator  
[faragon@envirotech-inc.com](mailto:faragon@envirotech-inc.com)



## **FIGURES**

Figure 1, Vicinity Map

Figure 2, Site Map



Source: 7.5 Minute, Bloomfield, New Mexico U.S.G.S. Topographic Quadrangle Map  
 Scale: 1:24,000 1" = 2000'

ConocoPhillips Summit B #5 (hBr) Section 33 Township 29N Range 11W San Juan County, New Mexico		 <b>envirotech</b> ENVIRONMENTAL SCIENTISTS & ENGINEERS		Vicinity Map	
Project Number: 92115-2680		Date Drawn: 1/10/17		Figure #1	
5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615		DRAWN BY: Isaac Garcia		PROJECT MANAGER: Greg Crabtree	





## LEGEND

- X Mercury Vapor Sample Location
- X Soil Sample Location
- ⊕ P&A Marker

## SITE MAP ConocoPhillips Summit B #5 (hBr)

SECTION 33, TWP 29 NORTH, RANGE 11 WEST  
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 2

REV

PROJECT NO92115-2680

### REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	IG	1/10/17	BASE DRWN IG 1/10/17



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  
Summit B #5 (hBr)  
Line Drip Closure Report  
Project Number 92115-2680

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 and NMED Regulations	NA	100	100	23.8	100	10	50
1/3/2017	Line Drip Comp.	1	0	52	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  
Summit B #5 (hBr)  
BGT Closure Report  
Project Number 92115-2680

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	250	100	100	0.2	50
1/3/2017	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 Phillips  
 CLIENT/JOB #: 92115-2680  
 START DATE: 11/3/17  
 FINISH DATE: 11/3/17  
 Page # 1 of 1

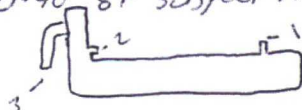
**envirotech**  
 (505) 632-0615 (800) 362-1879  
 5796 U.S. Hwy 64, Farmington, NM 87401

Environmental Specialist: E. Garcia  
 C.O.C. No: \_\_\_\_\_  
 LAT: 36.68511429  
 LONG: -108.000421

### FIELD REPORT: LINE DRIP CLOSURE VERIFICATION

LOCATION: NAME: Summit B WELL #: 5 Land Owner: \_\_\_\_\_ API: \_\_\_\_\_ ST. NM  
 LEGAL ADD: UNIT \_\_\_\_\_ SEC: 33 TWP: 29N RNG: 11W PM: \_\_\_\_\_ QTR/FOOTAGE: \_\_\_\_\_ CNTY: ST  
 LINE DRIP DIMENSIONS: LENGTH 26' DIAMETER 12" PLUGS: 3-2"  
 CONSTRUCTION MATERIAL: steel PIPE COATING Y/N: Tape  
 MERCURY VAPOR ACTION LIMIT: 0.05 mg/m<sup>3</sup> CLOSURE STANDARD TPH: 100  
 LOCATION APPROXIMATELY 60' feet and North degrees from wellhead

NOTES: There was about 30'-40' of suspect ACM pipe on location.



### FIELD TPH 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)
<u>200, Ecoppm STDs</u>		<u>8145</u>						<u>200,450</u>
<u>Line Drip Comp</u>	<u>13:08</u>			<u>5</u>	<u>20</u>	<u>4</u>	<u>13</u>	<u>52</u>

### NORM

<b>BACKGROUND READING</b> pancake Probe #1 <u>0.02</u> mR/hr scintillation Probe #2 <u>0.02</u> mR/hr				<b>ALLOWABLE CONCENTRATION (2 TIMES BACKGROUND)</b> Probe #1 <u>0.04</u> mR/hr Probe #2 <u>0.04</u> mR/hr			
---	--	--	--	---	--	--	--

ACM Asbestos Containing Material Samples Collected							
Time	Sample ID	Description	Probe 1	Probe 2	Time	Sample ID	Description
<u>11:45</u>	<u>LD</u>	<u>Line Drip Tubes</u>	<u>0.02</u>	<u>0.02</u>			<u>120 suspect ACM</u>

Lead Samples Collected			
Time	Sample ID	Lead Paint Pen Results D/ND	Lab Test Sample Y/N
		<u>NA</u>	

Organic Vapor PID RESULTS		MERCURY READINGS			LAB SAMPLES	
SAMPLE ID	RESULTS (mg/kg)	SAMPLE ID	READING	TEMP	SAMPLE ID	ANALYSIS
<u>Line Drip</u>	<u>0.0</u>	<u>1</u>	<u>1.000</u>	<u>52°</u>		
		<u>2</u>	<u>1.000</u>	<u>52°</u>		
		<u>3</u>	<u>1.020</u>	<u>54°</u>		

Date: 11/3/2017 Analyst Signature: [Signature] Who Ordered/Site Rep.: \_\_\_\_\_  
 WO #: \_\_\_\_\_ Printed Name: Rene Garcia Reyes



CLIENT: ConocoPhillipsCLIENT/JOB # 92115-7680START DATE: 1/3/17FINISH DATE: 1/3/17Page # 1 of 1(808) 832-0618 (800) 362-1879  
5786 U.S. Hwy 64, Farmington, NM 87401Environmental Specialist: J. Garcia

C.O.C. No: \_\_\_\_\_

LAT 36.68511429LONG -108.000421

## FIELD REPORT: BELOW GROUND TANK VERIFICATION

LOCATION NAME: Summit B WELL #: 5 Temp Pit: \_\_\_\_\_ PERM Pit: \_\_\_\_\_  
QUAD/UNIT: SEC: 33 TWP: 29N RNG: 11W PM: \_\_\_\_\_  
QTR/FOOTAGE: CNTY: ST ST: NM  
Excavation Approx: 8' Feet X 8' Feet X 4' Feet Deep \_\_\_\_\_ Cubic Yardage: \_\_\_\_\_  
Disposal Facility: NA Remediation Method: NA  
Land Owner: \_\_\_\_\_ API: \_\_\_\_\_ Pit Volume: \_\_\_\_\_  
Construction Material: \_\_\_\_\_ Double Walled, With Leak Detection: \_\_\_\_\_

\_\_\_\_\_ Temporary Pit Groundwater < or = 50 feet deep Chloride 600mg/kg, TPH 100 mg/kg, BTEX 50 mg/kg, Benzene 10 mg/kg  
\_\_\_\_\_ 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  
X 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  
\_\_\_\_\_ Permanent Pit Or BGT ?

## FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC. (mg/kg)
200, 500 STD		STW 5						200, 450
5PT composite,	11:40	BGT		5	20	x4	9	36
8' BGS								

## PERIMETER

## FIELD CHLORIDES RESULTS

## PROFILE

SAMPLE ID READING CALC. (mg/kg)


## PID RESULTS

SAMPLE ID RESULTS (mg/kg)

BGT 00

## LAB SAMPLES

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

## NOTES:

WO #:

Who ordered/Site Rep.:

Analyst Signature

Date

Rene Garcia Reyes  
Printed Name

Pit Closure Verification 2015

## **APPENDIX B**

### **Analytical Results**



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 3-Jan-17

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

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

Analyst

Date

1/13/2017

Rene Garcia

Print Name

Review

Date

1/13/2017

Felipe Aragon, CES

Print Name





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 #: 92115-2680  
Date Reported: 1/13/2017  
Date Sampled: 1/3/2017  
Date Analyzed: 1/3/2017  
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

36

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: Summit B #5 (hBr)

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

Analyst

Rene 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 #: 92115-2680  
Date Reported: 1/13/2017  
Date Sampled: 1/3/2017  
Date Analyzed: 1/3/2017  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	52	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: **Summit B #5 (hBr)**

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

Analyst

Rene Garcia  
Printed

Review

Felipe Aragon, CES  
Printed



## Analytical Report

### Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 1/3/2017 3:30:00PM

Job Number: 92115-2680

Work Order: P701002

Project Name/Location: Summit B #5

Report Reviewed By:

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

Date: 1/6/17

Walter Hinchman, Laboratory Director

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

Date: 1/6/17

Tim Cain, Quality Assurance Officer

Supplement to analytical report generated on: 1/6/17 3:18 pm

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: Summit B #5  
Project Number: 92115-2680  
Project Manager: Felipe Aragon

Reported:  
06-Jan-17 16:21

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Comp	P701002-01A	Solid	01/03/17	01/03/17	Glass Jar, 4 oz.
	P701002-01B	Solid	01/03/17	01/03/17	Glass Jar, 4 oz.
Line Drip Comp	P701002-02A	Solid	01/03/17	01/03/17	Glass Jar, 4 oz.
	P701002-02B	Solid	01/03/17	01/03/17	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

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: Summit B #5  
Project Number: 92115-2680  
Project Manager: Felipe Aragon

Reported:  
06-Jan-17 16:21

**BGT Comp**  
**P701002-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1701002	01/04/17	01/04/17	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1701003	01/04/17	01/04/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1701003	01/04/17	01/04/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1701002	01/04/17	01/04/17	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1701003	01/04/17	01/04/17	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	ND	20.0	mg/kg	1	1701005	01/04/17	01/04/17	EPA 300.0	

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ConocoPhillips	Project Name:	Summit B #5	Reported: 06-Jan-17 16:21
PO Box 2200	Project Number:	92115-2680	
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	

**Line Drip Comp  
P701002-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1701002	01/04/17	01/04/17	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1701002	01/04/17	01/04/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1701003	01/04/17	01/04/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1701003	01/04/17	01/04/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %		50-150	1701002	01/04/17	01/04/17	EPA 8015D	
Surrogate: n-Nonane		103 %		50-200	1701003	01/04/17	01/04/17	EPA 8015D	
<b>Total Metals by 6010</b>									
Mercury	ND	1.00	mg/kg	1	1701001	01/04/17	01/05/17	EPA 6010C	

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ConocoPhillips	Project Name:	Summit B #5	Reported:
PO Box 2200	Project Number:	92115-2680	06-Jan-17 16:21
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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#### Batch 1701002 - Purge and Trap EPA 5030A

<b>Blank (1701002-BLK1)</b>				Prepared: 03-Jan-17 Analyzed: 04-Jan-17						
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	8.22		"	8.00		103	50-150			

<b>LCS (1701002-BS1)</b>				Prepared: 03-Jan-17 Analyzed: 04-Jan-17						
Benzene	5.52	0.10	mg/kg	5.00		110	70-130			
Toluene	5.46	0.10	"	5.00		109	70-130			
Ethylbenzene	5.48	0.10	"	5.00		110	70-130			
p,m-Xylene	10.9	0.20	"	10.0		109	70-130			
o-Xylene	5.39	0.10	"	5.00		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		"	8.00		106	50-150			

<b>Matrix Spike (1701002-MS1)</b>				Source: P701001-01		Prepared: 03-Jan-17 Analyzed: 04-Jan-17				
Benzene	5.18	0.10	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.15	0.10	"	5.00	ND	103	61.4-130			
Ethylbenzene	5.17	0.10	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.3	0.20	"	10.0	ND	103	63.3-131			
o-Xylene	5.07	0.10	"	5.00	ND	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.31		"	8.00		104	50-150			

<b>Matrix Spike Dup (1701002-MSD1)</b>				Source: P701001-01		Prepared: 03-Jan-17 Analyzed: 04-Jan-17				
Benzene	5.07	0.10	mg/kg	5.00	ND	102	54.3-133	2.14	20	
Toluene	5.04	0.10	"	5.00	ND	101	61.4-130	2.10	20	
Ethylbenzene	5.07	0.10	"	5.00	ND	101	61.4-133	1.91	20	
p,m-Xylene	10.1	0.20	"	10.0	ND	101	63.3-131	1.99	20	
o-Xylene	4.98	0.10	"	5.00	ND	99.6	63.3-131	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		"	8.00		104	50-150			

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ConocoPhillips	Project Name:	Summit B #5	
PO Box 2200	Project Number:	92115-2680	Reported:
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	06-Jan-17 16:21

### 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
<b>Batch 1701002 - Purge and Trap EPA 5030A</b>										
<b>Blank (1701002-BLK1)</b>				Prepared: 03-Jan-17 Analyzed: 04-Jan-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		104	50-150			
<b>LCS (1701002-BS1)</b>				Prepared: 03-Jan-17 Analyzed: 04-Jan-17						
Gasoline Range Organics (C6-C10)	65.4	20.0	mg/kg	60.9		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.4	50-150			
<b>Matrix Spike (1701002-MS1)</b>				Source: P701001-01		Prepared: 03-Jan-17 Analyzed: 04-Jan-17				
Gasoline Range Organics (C6-C10)	63.3	20.0	mg/kg	60.9	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		"	8.00		100	50-150			
<b>Matrix Spike Dup (1701002-MSD1)</b>				Source: P701001-01		Prepared: 03-Jan-17 Analyzed: 04-Jan-17				
Gasoline Range Organics (C6-C10)	63.7	20.0	mg/kg	60.9	ND	105	70-130	0.630	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		103	50-150			

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ConocoPhillips	Project Name:	Summit B #5	Reported:
PO Box 2200	Project Number:	92115-2680	06-Jan-17 16:21
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	

### 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
<b>Batch 1701003 - DRO Extraction EPA 3570</b>										
<b>Blank (1701003-BLK1)</b>				Prepared & Analyzed: 04-Jan-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	51.4		mg/L	50.0		103	50-200			
<b>LCS (1701003-BS1)</b>				Prepared & Analyzed: 04-Jan-17						
Diesel Range Organics (C10-C28)	402	25.0	mg/kg	500		80.4	38-132			
Surrogate: n-Nonane	49.8		mg/L	50.0		99.6	50-200			
<b>Matrix Spike (1701003-MS1)</b>				Source: P701001-01	Prepared & Analyzed: 04-Jan-17					
Diesel Range Organics (C10-C28)	410	25.0	mg/kg	500	ND	81.9	38-132			
Surrogate: n-Nonane	51.7		mg/L	50.0		103	50-200			
<b>Matrix Spike Dup (1701003-MSD1)</b>				Source: P701001-01	Prepared & Analyzed: 04-Jan-17					
Diesel Range Organics (C10-C28)	409	25.0	mg/kg	500	ND	81.9	38-132	0.0304	20	
Surrogate: n-Nonane	50.0		mg/L	50.0		100	50-200			

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ConocoPhillips	Project Name:	Summit B #5	Reported:
PO Box 2200	Project Number:	92115-2680	06-Jan-17 16:21
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	

### Total Metals by 6010 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1701001 - Metal Solid Digestion EPA 3051A</b>										
<b>Blank (1701001-BLK1)</b>				Prepared & Analyzed: 03-Jan-17						
Mercury	ND	1.00	mg/kg							
<b>LCS (1701001-BS1)</b>				Prepared & Analyzed: 03-Jan-17						
Mercury	96.0	1.00	mg/kg	100		96.0	80-120			
<b>Matrix Spike (1701001-MS1)</b>				Source: P612061-01 Prepared & Analyzed: 03-Jan-17						
Mercury	90.3	1.00	mg/kg	100	1.16	89.2	75-125			
<b>Matrix Spike Dup (1701001-MSD1)</b>				Source: P612061-01 Prepared & Analyzed: 03-Jan-17						
Mercury	91.4	1.00	mg/kg	100	1.16	90.3	75-125	1.21	20	

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ConocoPhillips	Project Name:	Summit B #5	Reported:
PO Box 2200	Project Number:	92115-2680	06-Jan-17 16:21
Bartlesville OK, 74005	Project Manager:	Felipe Aragon	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1701005 - Anion Extraction EPA 300.0</b>										
<b>Blank (1701005-BLK1)</b>				Prepared & Analyzed: 04-Jan-17						
Chloride	ND	20.0	mg/kg							
<b>LCS (1701005-BS1)</b>				Prepared & Analyzed: 04-Jan-17						
Chloride	508	20.0	mg/kg	500		102	90-110			
<b>Matrix Spike (1701005-MS1)</b>				Source: P701002-01 Prepared & Analyzed: 04-Jan-17						
Chloride	508	20.0	mg/kg	500	ND	102	80-120			
<b>Matrix Spike Dup (1701005-MSD1)</b>				Source: P701002-01 Prepared & Analyzed: 04-Jan-17						
Chloride	512	20.0	mg/kg	500	ND	102	80-120	0.973	20	

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ConocoPhillips  
PO Box 2200  
Bartlesville OK, 74005

Project Name: Summit B #5  
Project Number: 92115-2680  
Project Manager: Felipe Aragon

Reported:  
06-Jan-17 16:21

#### 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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Client: Ponoco/PhillipsProject: Summit B #5Sampler: Rene Garcia

Phone: \_\_\_\_\_

Email(s): Isaac / ReneProject Manager: Felipe Aragon

RUSH?

☐ 1d☐ 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO#		GRO/DRO by 8015 + 0.20	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Total Hg	Lab Number
Job Number							
P 701002							
92115-2680							

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015 + 0.20	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Total Hg	Lab Number	Correct Cont/Presv (s) Y/N
BGT Comp	11/3/17	11:00	S	2-4oz/6l Cool	X	X		X		1	Y
Line Drip Comp	11/3/17	13:00	S	2-4oz/6l Cool	X	X			X	2	L

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	11/3/17	15:24	<u>[Signature]</u>	01-03-17	15:30	**Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1: 4.0 T2: 4.0 T3: 4.0
						AVG Temp: °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

\*\*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 - m

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