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.

15966

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

OIL CONS. DIV DIST. 3
JUN 22 2017

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: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: Gallegos Canyon Unit 205
API Number: 3004511568 OCD Permit Number:
U/L or Qtr/Qtr N Section 17 Township 28N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.65779 Longitude -108.13873 NAD: ☐1927 ☒1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

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 **TANK A**
Volume: 95 bbl Type of fluid: Produced water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single wall/ Double bottom; no visible sidewalls
Liner type: Thickness _____mil ☐ HDPE ☐ PVC ☐ Other _____

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.

30

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_2S, 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ 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 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	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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
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)

OCD Representative Signature: _____ **Approval Date:** 7/11/17

Title: Environmental Spec. **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:** 3/12/2014

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 36.65779 Longitude -108.13873 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): Steve Moskal Title: Field Environmental Coordinator

Signature: Date: June 19, 2017

e-mail address: steven.moskal@bp.com Telephone: (505) 326-9497

BP AMERICA PRODUCTION COMPANY
SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit 205
API No. 3004511568
Unit Letter N, Section 17, T28N, R12W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does 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 after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
   Notice is attached.

2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
   Notice was provided and is attached.

3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
   a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
   b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
   c. Basin Disposal, Permit NM-01-0005 (Liquids)
   d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
   e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.
The BGT was transported for recycling.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method **95 bbl BGT**	Release Verification (mg/Kg)	Sample results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	<0.05
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	<0.05
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<30
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<9.96

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil in the immediate vicinity of the BGT was sampled during a remedial excavation for TPH, BTEX and chloride with all concentrations below the stated limits. The field report and laboratory reports are attached.

7. BP shall notify the division District III office of its results on form C-141.
C-141 is attached.

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
Sampling results indicate all impacts had been excavated during remedial activities. Attached is a laboratory report and C-141.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area
Sampling results indicate all impacts had been excavated during remedial activities. The location will be reclaimed when the well is plugged and abandoned.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.
The area has been backfilled. The location will be reclaimed when the well is plugged and abandoned.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.
The location will be reclaimed when the well is plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
The location will be reclaimed when the well is plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.
The location will be reclaimed when the well is plugged and abandoned.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves re-vegetation.

The location will be reclaimed when the well is plugged and abandoned.

15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
    a. proof of closure notification (surface owner and NMOCD)
    b. sampling analytical reports; information required by 19.15.17 NMAC;
    c. disposal facility name and permit number
    d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
    e. site reclamation, photo documentation.
    Closure report on C-144 form is included including photos of reclamation completion.

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.
    Certification section of C-144 has been completed.

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Gallegos Canyon Unit 205	Facility Type: Natural gas well

Surface Owner: Tribal	Mineral Owner: Federal	API No. 3004511568

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
N	17	28N	12W	1,045	South	1,765	West	

Latitude 36.65779° **Longitude** -108.13873°

NATURE OF RELEASE

Type of Release: unknown	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: none	Date and Hour of Discovery: none
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during remedial excavation. Soil analysis resulted for TPH, BTEX and chlorides below BGT closure standards. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.* No further action necessary. Final laboratory analysis determined no further remedial action is required.

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:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: June 19, 2017 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

bp

BP America Production Company
200 Energy Court
Farmington, NM 87401
Phone: (505) 326-9200

July 29, 2014

Bureau of Land Management
Mark Kelly
6251 College Blvd Suite A
Farmington, NM 87402

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: Notification of plans to close/remove a below grade tank
Well Name: GALLEGOS CANYON UNIT 205
API #: 3004511568

Dear Mr. Kelly,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about September 9, 2014. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

Unless you have questions about this notice, there is no need to respond to this letter. If you do have any questions or concerns, please contact me at 505-326-9214

Sincerely,

Jerry Van Riper
Surface Land Negotiator
BP America Production Company

BP America Production Company
200 Energy Court
Farmington, NM 87401
Phone: (505) 326-9200

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US

July 29, 2014

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

GALLEGOS CANYON UNIT 205
API 30-045-11568
(G) Section 17 – T28N – R12W
San Juan County, New Mexico

Dear Mr. Cory Smith:

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site.

Should you have any questions, please feel free to contact BP at our Farmington office.

Sincerely,

Jeff Peace

Jeff Peace
BP Field Environmental Advisor

(505) 326-9479

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004511568
TANK ID (if applicble): A

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: GCU # 205

QUAD/UNIT: N SEC: 17 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1,045'S / 1,765'W SE/SW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: SF078106 PROD. FORMATION: DK CONTRACTOR: CROSSFIRE MBF -

DATE STARTED: 03/12/14

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.65790 X 108.13809 GL ELEV.: 5,628'

1) 95 BGT (SW/DB) GPS COORD.: 36.65779 X 108.13873 DISTANCE/BEARING FROM W.H.: 184', S79W

2) GPS COORD.: DISTANCE/BEARING FROM W.H.:

3) GPS COORD.: DISTANCE/BEARING FROM W.H.:

4) GPS COORD.: DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED:

	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	OVM READING (ppm)
1)					
2)					
3)					
4)					

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: MODERATE BROWN

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS.

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

HC ODOR DETECTED: YES / NO EXPLANATION -

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : YES / NO EXPLANATION:

EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION -

OTHER: SEPARATE RELEASE HAD OCCURRED SE OF BGT POSITION & WAS IDENTIFIED AS A PIPING ISSUE DIRECTELY ASSOCIATED WITH THE SITE'S PRODUCTION TANK. ENTIRE BGT AREA WAS EXCAVATED & NOTED IN REMEDIATION DOCUMENTATION SUBMITTED TO NMOCD.

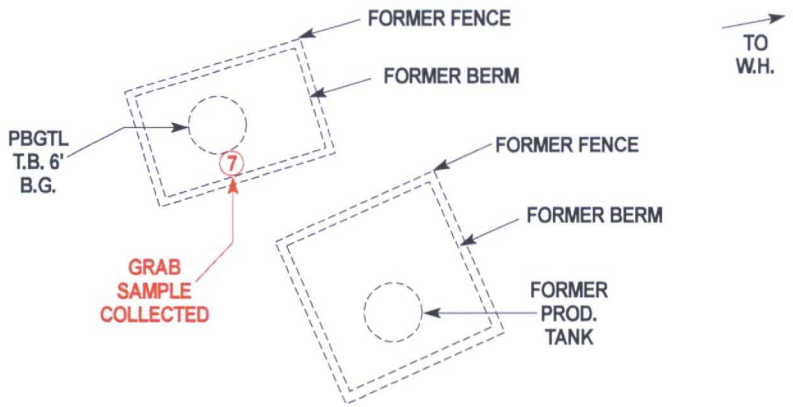
SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <200' NMOCD TPH CLOSURE STD: 100 ppm

SITE SKETCH

BGT Located : off / on site

PLOT PLAN circle: attached



OVM CALIB. READ. = NA ppm RF =0.52

OVM CALIB. GAS = NA ppm

TIME: NA am/pm DATE: NA

MISCELL. NOTES

WO:

REF #:

VID:

PJ #:

Permit date(s): 06/09/10

OCD Appr. date(s): 07/18/14

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
A	BGT Sidewalls Visible: Y / (N)
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: 10° E

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: GOOGLE EARTH IMAGERY DATE: 11/3/2013. ONSITE: 03/12/14

revised: 11/26/13

BEI1005E-6.SKF


BP - GCU 205
(N) Section 17, T28N, R13W
API #: 3004511568
Imagery date: 11/3/2013.
MAP 1
Former 95 bbl
BGT Position
WH
N
100 ft
Google earth

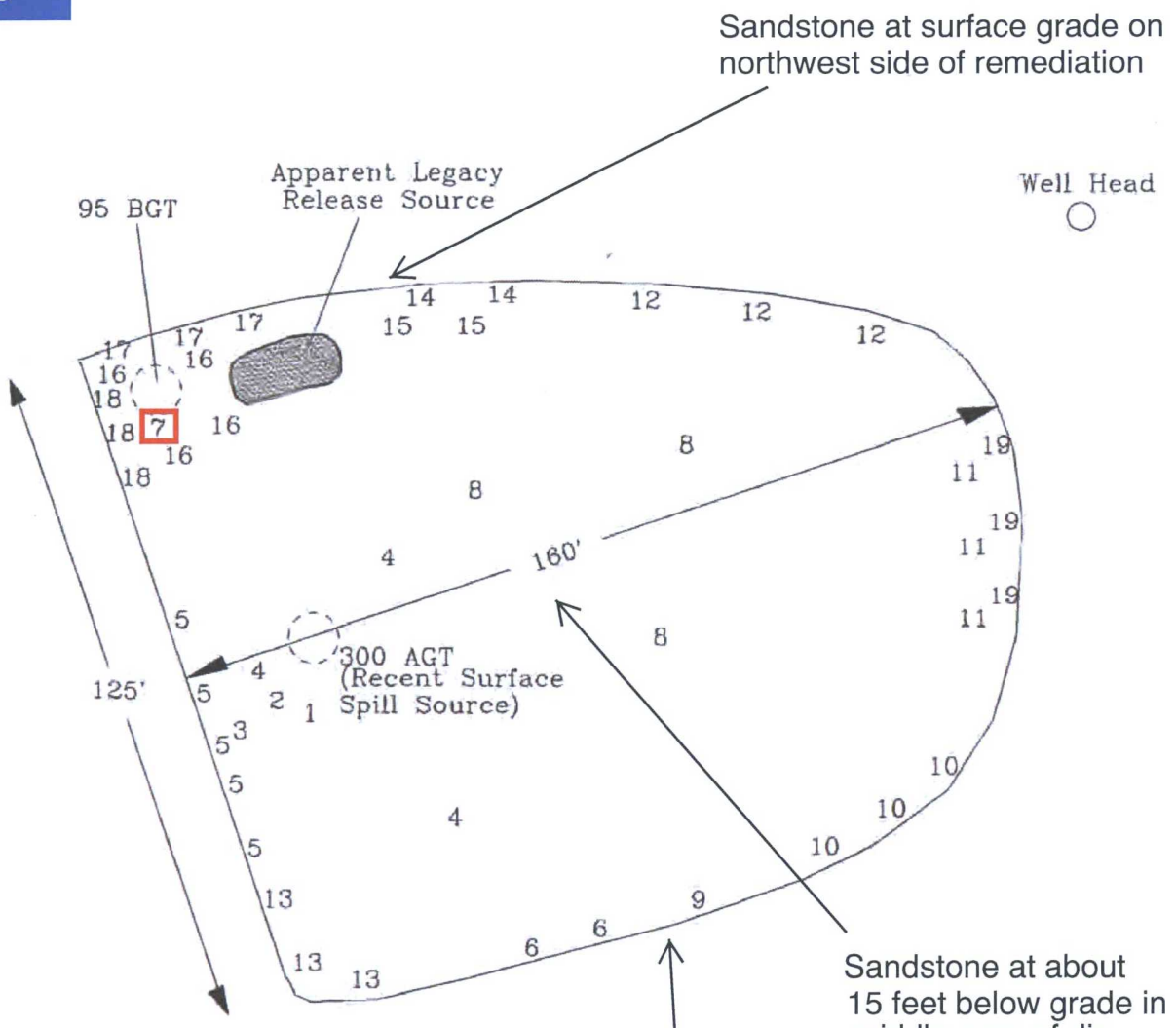

GCU 205
MAP 2
Sidewall TPH = 248.7 ppm
Impacted Soils Removed
to top Bedrock Sandstone (7,444 CY)
Gas Transmission Lines
Likely Original
Legacy Source Area
GCU 205
Sidewall TPH = 514.6 ppm
Sandstone slopes
towards SE
All other sidewalls test
at less than 100 ppm TPH
New Release
Surface Impact Area
Google earth
N
100 ft

BP America
GCU 205 (N) Sec 17 – T28N – R12W
San Juan County, New Mexico
Release Remediation Closure Sampling Summary Lab Results

Sample ID	Date	Time	Description	TPH (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Comments
1	2/24/2014	10:45	Base @ 15'	1,790	1.4	104.1	H2O2 Applied
2	2/24/2014	10:50	SW Wall @ 13'	290	0.57	5.17	Excavated & Removed
3	2/26/2014	14:10	SW Sidewall @ 13'	39.3	0.071	0.64	
4	3/4/2014	14:00	Base 3-pt Comp@15'	1,090	ND	35.3	H2O2 Applied
5	3/7/2014	14:35	SW Corner 5-pt	ND	ND	ND	
6	3/10/2014	15:27	SE Corner 2-pt	ND	ND	ND	
7	3/12/2014	13:34	NW Corner@8'	ND	ND	ND	
8	3/12/2014	13:41	Middle Base 3-pt@15'	9.13	ND	ND	H2O2 Applied
9	3/12/2014	13:45	SE Corner@10'	ND	ND	0.46	
10	3/18/2014	13:45	3-pt@10' 120S18W	89.9	0.15	9.87	
11	3/21/2014	09:20	Sidewall@12' 3-pt South of Wellhead	101.6	ND	ND	Excavated and Removed
12	3/21/2014	09:24	Sidewall@12' 3-pt West of Wellhead	5.03	ND	ND	
13	3/25/2014	09:00	SW Sidewall 3-pt @13'-15'	ND	ND	ND	
14	3/25/2014	09:04	NW Sidewall 2-pt @ 8'	ND	ND	ND	
15	3/25/2014	09:10	NW Sidewall 2-pt@10' (Bedrock Shelf)	ND	ND		
16	3/27/2014	09:30	NW Corner Base @ 15'	112.7	ND	ND	H2O2 Applied
17	3/27/2014	09:41	NW Corner Wall@ 12' North Side 3-pt Comp	248.7	ND	0.77	Could Not Excavate Due to Pipeline & Crystalline Sandstone
18	3/27/2014	09:47	NW Corner Wall@ 12' West Side 3-pt Comp	514.6	ND	3.31	Could Not Excavate Due to Pipeline & Crystalline Sandstone
19	3/27/2014	09:52	Sidewall S. of Wellhead 3-pt Re-Sample	ND	ND	ND	
			NMOCD Closure Guidelines	100	10	50	

Sample ID Location Indicated on Excavation Sampling Diagram on following page.

MAP 3



LEGEND

N

7 Sample Location with ID

0 40 80 Feet

Excavation Sampling Diagram BP ** GCU 205 ** (N)Sec 17-T28N-R12W			BLAGG ENGINEERING, INC.
DATE: 6/2014	FIGURE A	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199


BP - GCU 205
(N) Section 17, T28N, R13W
API #: 3004511568
Imagery date: 3/15/2015.
MAP 4
WH
Former 95 bbl
BGT Position
Perimeter Security
Fencing
Google earth
© 2017 Google
N
200 ft

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Blagg Engineering
Chain Of Custody Number: 16735
Samples Received: 3/13/2014 7:38:00AM
Job Number: 94034-0011
Work Order: P403034
Project Name/Location: GCU 205

Entire Report Reviewed By: _____ Date: 3/14/14

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 3/14/14 9:34 am

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

envirotech
Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW Corner @ 8'	P403034-01A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.
Middle Base 3-pt @ 15'	P403034-02A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.
SE Corner @ 10'	P403034-03A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

envirotech
Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

NW Corner @ 8'

P403034-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: Bromochlorobenzene		*105 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Surrogate: 1,3-Dichlorobenzene		*103 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1411016	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.96	mg/kg	1	1411019	03/13/14	03/13/14	EPA 300.0	

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Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

Middle Base 3-pt @ 15'

P403034-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: Bromochlorobenzene		*109 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Surrogate: 1,3-Dichlorobenzene		*102 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	**9.13**	4.99	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1411016	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	**28.2**	9.89	mg/kg	1	1411019	03/13/14	03/13/14	EPA 300.0	

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

SE Corner @ 10'

P403034-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Toluene	**0.12**	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	**0.34**	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	**0.34**	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total BTEX	**0.46**	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		*100 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Surrogate: Bromochlorobenzene		*106 %*		*80-120*	*1411015*	*03/13/14*	*03/13/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1411016	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	**193**	9.93	mg/kg	1	1411019	03/13/14	03/13/14	EPA 300.0	

envirotech
Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

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 1411015 - Purge and Trap EPA 5030A										
Blank (1411015-BLK1)				Prepared & Analyzed: 13-Mar-14						
Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
Surrogate: 1,3-Dichlorobenzene	*49.1*		*ug/L*	*50.0*		*98.1*	*80-120*			
Surrogate: Bromochlorobenzene	*50.4*		*"*	*50.0*		*101*	*80-120*			
Duplicate (1411015-DUP1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	*52.8*		*ug/L*	*50.0*		*106*	*80-120*			
Surrogate: Bromochlorobenzene	*53.6*		*"*	*50.0*		*107*	*80-120*			
Matrix Spike (1411015-MS1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Benzene	46.6		ug/L	50.0	ND	93.1	39-150			
Toluene	46.6		"	50.0	ND	93.1	46-148			
Ethylbenzene	46.6		"	50.0	ND	93.3	32-160			
p,m-Xylene	93.5		"	100	ND	93.5	46-148			
o-Xylene	46.7		"	50.0	ND	93.5	46-148			
Surrogate: 1,3-Dichlorobenzene	*52.5*		*"*	*50.0*		*105*	*80-120*			
Surrogate: Bromochlorobenzene	*53.3*		*"*	*50.0*		*107*	*80-120*			

envirotech
Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

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 1411015 - Purge and Trap EPA 5030A										
Blank (1411015-BLK1)				Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1411015-DUP1)		**Source: P403034-01**		Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1411015-MS1)		**Source: P403034-01**		Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	0.44		mg/L	0.450	ND	97.8	75-125			

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Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

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 1411016 - DRO Extraction EPA 3550C										
Blank (1411016-BLK1)				Prepared & Analyzed: 13-Mar-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1411016-DUP1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1411016-MS1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Diesel Range Organics (C10-C28)	172		mg/L	250	ND	68.7	75-125			SPK1

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Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

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 1411019 - Anion Extraction EPA 300.0										
Blank (1411019-BLK1)				Prepared & Analyzed: 13-Mar-14						
Chloride	ND	9.96	mg/kg							
LCS (1411019-BS1)				Prepared & Analyzed: 13-Mar-14						
Chloride	506	9.99	mg/kg	500		101	90-110			
Matrix Spike (1411019-MS1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Chloride	502	9.95	mg/kg	498	ND	101	80-120			
Matrix Spike Dup (1411019-MSD1)	**Source: P403034-01**			Prepared & Analyzed: 13-Mar-14						
Chloride	498	9.87	mg/kg	494	ND	101	80-120	0.706	20	

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Analytical Laboratory

Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	**Reported:**
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

Notes and Definitions

SPK1	The spike recovery for this QC sample is outside of control limits.
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

CHAIN OF CUSTODY RECORD

16735

Client:	Project Name / Location:
BLAGG ENGINEERING INC.	GCU 205
Email results to: Jeffcblagg@AOL.COM AND: Peace.JEFFREY@BP.COM	Sampler Name: JEFF BLAGG
Client Phone No.: 505-320-1183	Client No.: 94034-0011

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HNO_3	Preservative HCl	Preservative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
NW CORNER @ 8'	3/13/2014	1334	P403034-01	1 x 40z				X	X								X				✓	✓
MIDDLE BASE 3-pt @ 15'	"	1341	P403034-02	"				X	X								X				✓	✓
SE CORNER @ 10'	"	1345	P403034-03	"				X	X								X				✓	✓
									RUSH ASAP													

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	3/13/14	0738		3/13/14	738
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

5.8 8.6 (7.1)
6.8

envirotech Analytical Laboratory

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