<u>District I</u> 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.

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

Santa Fe, NM 87505

| 14199 Proposed Alternative Method Permit or Closure Plan Application CONS. DIV DIST. 3 |
|--|
| 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 MAR 1 5 2016 MAR 1 5 2016 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. |
| Operator: BP America Production Company OGRID #: 778 |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name: Gallegos Canyon Unit 231E |
| API Number: 3004526012 OCD Permit Number: |
| U/L or Qtr/Qtr E Section 27 Township 28N Range 12W County: San Juan |
| Center of Proposed Design: Latitude 36.63586 Longitude -108.10475 NAD: □1927 ⋈ 1983 |
| Surface Owner: Federal State Private Tribal Trust or Indian Allotment |
| 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 |
| Secondary containment with leak detection Visible sidewalls only Other Double walled/double bottom; no visible sidewalls |
| 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. |



| s. 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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | ptable source |
| 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 |
| 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 |
| 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 |

| | ☐ Yes ☐ No | | | | |
|---|------------|--|--|--|--|
| application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | | | | |
| 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. | ☐ 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 | | | | | |
| 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 | ☐ Yes ☐ No | | | | |
| - OSTISII and Wilding Welland Identification map, Topographic map, Visual inspection (certification) of the proposed site | | | | | |
| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NM Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15. and 19.15.17.13 NMAC | ments are | | | | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | | | |
| 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 document 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 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. | uocuments are |
| Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC | |
| ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan | |
| Oil Field Waste Stream Characterization | |
| Monitoring and Inspection Plan | |
| Erosion Control Plan Classes Plans have described associated asso | |
| Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | 100 |
| 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 F | luid Managament Bit |
| Alternative Waste Excavation and Removal Waste Removal (Closed-loop systems only) | iuid Management Fit |
| ☐ 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 | |
| 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 soun provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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 |
| 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 |
| 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 |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - 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 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 | .11 NMAC .15.17.11 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 bel | ief. |
| Name (Print): Title: | 123 July 11 |
| Signature: Date: | |
| e-mail address: | Janes Ja |
| OCD Approval: Permit Application (including closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 03/6 Title: Lowicomental Specials to OCD Permit Number: | 24/00/6 |
| 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. | |
| ☐ Closure Completion Date: 2/25/2016 | 4574 |
| 20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-logon If different from approved plan, please explain. | oop systems only) |
| Closure Report Attachment Checklist: _Instructions: Each of the following items must be attached to the closure report. Please in 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 36.63586 Longitude -108.10475 NAD: 1922 | ndicate, by a check |

| | ubmitted with this closure report is true, accurate and complete to the best of my knowledge and applicable closure requirements and conditions specified in the approved closure plan. |
|--------------------------------------|---|
| Name (Print): Steve Moskal | Title: Field Environmental Coordinator |
| Signature: Attension | Date: March 10, 2016 |
| 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 231E API No. 3004526012 Unit Letter E, Section 27, 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

- 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. NMOCD was on site during the removal of the BGT.

- 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.

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 21 bbl BGT | Release Verification (mg/Kg) | Sample results |
|--------------|---|------------------------------|----------------|
| Benzene | US EPA Method SW-846 8021B or 8260B | 0.2 | < 0.038 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.076 |
| TPH | US EPA Method SW-846 418.1 or 8015 extended | 100 | <46 |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | 65 |

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 under the BGT was sampled for TPH, BTEX and chloride. BTEX, TPH and chloride concentrations were below the stated limits. The field report and laboratory reports are attached.

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

- 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 no significant release has occurred.
- 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 determine no significant release has occurred. Area was backfilled with clean, earthen material.

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 and will be reclaimed when the well has been 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 area has been backfilled and will be reclaimed when the well has been 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 area has been backfilled and will be reclaimed when the well has been 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 area has been backfilled and will be reclaimed when the well has been 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 revegetation.

BP will notify NMOCD when re-vegetation is successful.

- 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.

Fields, Vanessa, EMNRD

From:

Railsback, Farrah (CH2M HILL) < Farrah.Railsback@bp.com>

Sent:

Monday, February 22, 2016 11:59 AM

To:

Smith, Cory, EMNRD; Fields, Vanessa, EMNRD

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Moskal, Steven

Subject:

BP Pit Close Notification - GALLEGOS CANYON UNIT 231E

BP America Production Company

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

February 22, 2016

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 231E** API 30-045-26012 (E) Section 27 - T28N - R12W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

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. We anticipate this work to start on or around February 25, 2016.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

(505) 326-9497

Farrah Railsback
BGT Project Support
970-946-9199 -cell

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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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

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

| | | | | | | OPERA | ГOR | | nitial Report Fin | nal Repor | | | | |
|---|--|--|---|--|---------------------------------------|--|--|---|---|------------------------|--|--|--|--|
| Name of C | ompany: E | 3P | | | | Contact: Steve Moskal | | | | | | | | |
| | | Court, Farm | | | | Telephone No.: 505-326-9497 | | | | | | | | |
| Facility Na | me: Galleg | gos Canyon | Unit 231I | 3 | | Facility Typ | e: Natural gas | well | A Laboratory | | | | | |
| Surface Ov | vner: Fede | ral | | Mineral | Owner: | Federal | | API | No. 3004526012 | | | | | |
| | | | | LOC | ATIO | OF RE | LEASE | | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | South Line | Feet from the | East/West Li | ne County: San Juan | | | | | |
| E | 27 | 28N | 12W | 1,715 | North | The state of the s | | | | | | | | |
| | | | La | ntitude 36.6 | | Longitu | ide108.10 | <u>)475</u> | | | | | | |
| Type of Rele | ease: none | | | IVA | TUKE | | Release: unknov | vn Volum | ne Recovered: N/A | | | | | |
| | Source of Release: below grade tank – 95 bbl | | | | | | Iour of Occurrence | 1.0000 | and Hour of Discovery: non | ne | | | | |
| Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Requ | | | | Required | If YES, To | Whom? | | | | | | | | |
| By Whom? | | | | | | Date and I | Iour | | oddfin to the | | | | | |
| Was a Water | rcourse Rea | THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW | Yes 🗵 |] No | | If YES, Vo | dume Impacting | the Watercourse | | | | | | |
| | | | | n Taken.* Sampl ld reports and lal | | | | ne during remo | val. Soil analysis resulted f | for | | | | |
| Describe Are | ea Affected | and Cleanup | Action Tal | cen.* No action i | necessary | Final labora | tory analysis sup | ported closure of | f the BGT location. | | | | | |
| regulations a public health should their or the enviro | all operators or the envi operations lonment. In a | are required to fronment. The have failed to | o report as acceptane adequately OCD accep | nd/or file certain ce of a C-141 rep investigate and | release no ort by the remediate | otifications as NMOCD m e contaminati | nd perform correct arked as "Final R on that pose a thr e the operator of | ctive actions for deport" does not reat to ground w responsibility for | releases which may endang relieve the operator of liab ater, surface water, human or compliance with any other | ger ility health | | | | |
| Signature: | Alex | my) | | | | | OIL CON | SERVATIO | ON DIVISION | | | | | |
| Printed Nam | e: Steve Mo | oskal | | | | Approved by | Environmental S | pecialist: | | | | | | |
| Title: Field I | Environmen | tal Coordinate | or | | | Approval Dat | e: | Expirat | on Date: | | | | | |
| E-mail Addr | ess: steven. | moskal@bp.c | om | | | Conditions of Approval: | | | Attached | | | | | |
| Date: March | 10, 2016 | | Phone: | 505-326-9497 | | | | | | | | | | |

| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004526012 TANK ID (if applicble): A |
|---|--|--|
| FIELD REPORT: | (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: | PAGE#: 1 of 2 |
| SITE INFORMATION QUAD/UNIT: E SEC: 27 TWP: | : SITE NAME: GCU # 231E 28N RNG: 12W PM: NM CNTY: SJ ST: NM | DATE STARTED: 02/25/16 DATE FINISHED: |
| 1/4-1/4/FOOTAGE: 1,715'N / 790 LEASE #: SF078828-A | D'W SW/NW LEASE TYPE: FEDERAL STATE / FEE / INDIAN STRIKE PROD. FORMATION: DK CONTRACTOR: MBF - B, SCHUMAN | ENVIRONMENTAL SPECIALIST(S): NJV |
| REFERENCE POINT 1) 95 BGT (DW/DB) 2) 3) 4) | ### WELL HEAD (W.H.) GPS COORD.: 36.63573 X 108.1052 GPS COORD.: 36.63586 X 108.10475 DISTANCE: GPS COORD.: DISTANCE: GPS COORD.: DISTANCE: DISTANCE: | GL ELEV.: 5,685' BEARING FROM WH.: 157', N71E BEARING FROM WH.: BEARING FROM WH.: BEARING FROM WH.: |
| SAMPLING DATA: 1) SAMPLE ID: 5PC - TB @ 5' 2) SAMPLE ID: 3) SAMPLE ID: 4) SAMPLE ID: 5) SAMPLE ID: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: (95) SAMPLE DATE: 02/25/15 SAMPLE TIME: 1240 LAB ANALYSIS: 80 SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: LAB ANALYSIS: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: LA | 015B/8021B/300.0 (CI) READING (ppm) 19.6 |
| SOIL COLOR: DARK YELLOWISH OR COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY (SLIGHTLY MOIST) MOIST / WE SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED; YES NOT SITE OBSERVATION | COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION - DISCRIPTION - | M / STIFF / VERY STIFF / HARD SCOLORED SOILS ONLY. ANATION - |
| SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: <50' NI | | STIMATION (Cubic Yards) : NA OCD TPH CLOSURE STD: 100 ppm |
| SITE SKETCH | BGT Located : off on site PLOT PLAN circle: attached | MICALIB. READ. = 53.2 ppm RF = 0.52 MICALIB. GAS = 100 ppm ME 1:00 ampm DATE 02/25/16 MISCELL. NOTES WO: REF #: P - 483 VID: VHIXONEVB2 PJ #: |
| T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELO | X - S.P.D. ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW, T.H. = TEST HOLE; ~ = APPROX; W.H. = WELL HEAD; OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT EWALL; DW-DOUBLE WALL; SB-SINGLE BOTTOM; DB-DOUBLE BOTTOM. | Permit date(s): 02/23/16 OCD Appr. date(s): 02/23/16 Tank OVM = Organic Vapor Meter ppm = parts per million A BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: 10° E |

Analytical Report

Lab Order 1602A97

Date Reported: 2/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Lab ID:

Project:

GCU #231E

1602A97-001

Client Sample ID: 5PC-TB@5'(95)

Collection Date: 2/25/2016 12:40:00 PM

Matrix: MEOH (SOIL) Received Date: 2/26/2016 8:00:00 AM

| Analyses | Result | PQL Qua | 1 Units | DF | Date Analyzed | Batch |
|------------------------------------|------------|----------|---------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | LGT |
| Chloride | 65 | 30 | mg/Kg | 20 | 2/26/2016 11:57:10 AM | 23978 |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANIC | S | | | Analyst | : KJH |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 2/26/2016 10:55:27 AM | 23963 |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 2/26/2016 10:55:27 AM | 23963 |
| Surr: DNOP | 81.7 | 70-130 | %Rec | 1 | 2/26/2016 10:55:27 AM | 23963 |
| EPA METHOD 8015D: GASOLINE RAM | NGE | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 2/26/2016 10:01:15 AM | 23942 |
| Surr: BFB | 91.0 | 66.2-112 | %Rec | 1 | 2/26/2016 10:01:15 AM | 23942 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.038 | mg/Kg | 1 | 2/26/2016 10:01:15 AM | 23942 |
| Toluene | ND | 0.038 | mg/Kg | 1 | 2/26/2016 10:01:15 AM | 23942 |
| Ethylbenzene | ND | 0.038 | mg/Kg | 1 | 2/26/2016 10:01:15 AM | 23942 |
| Xylenes, Total | ND | 0.076 | mg/Kg | 1 | 2/26/2016 10:01:15 AM | 23942 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | %Rec | 1 | 2/26/2016 10:01:15 AM | 23942 |
| | | | | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

| Ch lient: | 2101 | A Company of the | /BP AMERICA | Turn-Around | Time: | SAME | | | | 1.0 | 361 July 27 | | | | | | | NT | | |
|-----------------|------------|---------------------------------|---|-------------------------|----------------------|--|-------------|-------------|---|--------------------|--------------------|------------------------|---------------|-----------------|-------------|-----------------|---|-------------|-----------------|------|
| | | | / CANALLINEAR | Standard Project Name | | | | | | | | | | | | | | ATO | RY | |
| failing A | ddress: | P.O. BO | X 87 | GCU # 231E | | | | | www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | |
| | | BLOOMFIELD, NM 87413 Project #: | | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | | |
| hone #: | | (505) 63 | 2-1199 | | | | | | | | | An | alys | is R | equ | est | | | | |
| mail or F | | Project Manager: | | 17 18 | | | | | 1 | 1 | 1 | | T. | 0.1) | | | | | | |
| A/QC Pa | | NELDUN VELEZ | | ELEZ | MB* (80218) | + TPH (Gas only) | / MRO) | | | 181 | 00.00 | V ONO 3 DCB1- | 2 | | ter - 30 | | Di Di | | | |
| ccreditat | tion: | | | Sampler: | NELSON VI | ELEZ ny | E C | (Ga | DRO | 1 | 7 | SOIN | S | 000 | 2000 | | / wa | | sample | |
| NELAP | | ☐ Other | | On Ice. | Yes | □ No | 1 | TPH | 1/0 | 418 | 504 | 178 | s 2 | 3 | | (AC | 300.0 | | le sa | N N |
| EDD (| ype) | | | Sample Temp | erature: 1.0 | | 4 | BE + | (GR | pou | pou | Jor | etal | | NA PA | 1 2 | oil . | 9 | Pisoc | S IV |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1602 497 | BTEX +-MITB | BTEX + MTBE | TPH 8015B (GRO | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 of 82/03/MS) | RCRA 8 Metals | 2001 Docticidos | RZEOR (VOA) | 8270 (Semi-VOA) | Chloride (soil - 300.0 / water - 300.1) | Grah campla | 5 pt. composite | r Bu |
| 2/25/16 | 1240 | SOIL | SPC-TB @ 5 '(95) | 4 oz 1 | Cool | -001 | ٧ | | ٧ | | | | | | įį | () | ٧ | | V | |
| | | | | 12 hans 12 h | | | E di | | | | | | | 1 | 1 | | | | | |
| | | | | | | | | 71 | | | | | | + | | - | | - | - | |
| | | | | | | | | | | | | + | | + | | - | | | - | H |
| - | | | | | | | - | | | | | + | | 1 | 17 | 1 | | | | |
| | | | | | | | | | | | | | 1 | | 1 | | | | | |
| | | | | | | | Į. | | | | | | | | | | | | | |
| | | | | | | | 10 | ijij | | | | | | | | | | | | |
| | | | | | | 13 | | la ar | | | | | | | - | | | | | |
| | | | | | | | 75 | 1 | | | | | | | + | | | | | |
| ate: 2/25/16 | Time: [40 | Relinquishe | lu VI | Received by: | Water | 0ate Time 2/25/16 [640 | BI | | RECT | | O BP: | rovi | Court | Far | mine | tor t | NM 87 | 7401 | 1 | |
| 55/10 | Time: 1820 | Relinquishe | ad by: t Walls mitted in Hall Environmental may be su | Received by: | Hat 0 | Date Time 2/24/6 0800 s. This serves as notice of | Re | efere | nce# | <u> </u> | P. | 483 | | VII |): | VHD | ONE | /82 | d'renort | |

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602A97

29-Feb-16

Client:

Blagg Engineering

Project:

GCU #231E

Sample ID MB-23978

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 23978

RunNo: 32456 SeqNo: 992631

Units: mg/Kg

Qual

Analyte

Analysis Date: 2/26/2016 Result PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Chloride

ND 1.5

Sample ID LCS-23978

2/26/2016

LCSS

2/26/2016

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 23978

RunNo: 32456

SegNo: 992632

Units: mg/Kg

Analyte

Client ID:

Prep Date:

Analysis Date: 2/26/2016

14

SPK value SPK Ref Val %REC

LowLimit

%RPD HighLimit

RPDLimit

Qual

Page 2 of 5

Chloride

PQL 1.5

15.00

0

95.8

110

Value exceeds Maximum Contaminant Level.

D

Holding times for preparation or analysis exceeded H

ND

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Oualifiers:

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Result

36

3.9

PQL

10

SPK value SPK Ref Val

50.00

5.000

WO#: 1602A97

29-Feb-16

Client:

Blagg Engineering

| Sample ID LCS-23931 Client ID: LCSS | SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 23931 RunNo: 32421 |
|--|---|
| Prep Date: 2/25/2016 | Analysis Date: 2/26/2016 SeqNo: 991463 Units: %Rec |
| Analyte | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 4.0 5.000 79.5 70 130 |
| Sample ID MB-23931 | SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics |
| Client ID: PBS | Batch ID: 23931 RunNo: 32421 |
| Prep Date: 2/25/2016 | Analysis Date: 2/26/2016 SeqNo: 991465 Units: %Rec |
| Analyte | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 7.7 10.00 77.3 70 130 |
| Sample ID MB-23963 | SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics |
| Client ID: PBS | Batch ID: 23963 RunNo: 32421 |
| Prep Date: 2/26/2016 | Analysis Date: 2/26/2016 SeqNo: 991466 Units: mg/Kg |
| Analyte | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | ND 10 |
| Motor Oil Range Organics (MRO) | ND 50 |
| Surr: DNOP | 7.7 10.00 77.5 70 130 |
| | |
| Sample ID LCS-23963 | SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics |
| Sample ID LCS-23963 Client ID: LCSS | SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 23963 RunNo: 32421 |

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

%REC

72.3

78.8

LowLimit

65.8

70

HighLimit

136

130

%RPD

RPDLimit

Qual

J Analyte detected below quantitation limits

Page 3 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A97

29-Feb-16

Client:

Blagg Engineering

Project:

GCU #231E

Sample ID MB-23942

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

66.2

79.6

66.2

Client ID:

PBS

Batch ID: 23942

RunNo: 32426

Prep Date: 2/25/2016

SeqNo: 992147

Units: mg/Kg

Analyte

Analysis Date: 2/26/2016

RPDLimit Qual

Result PQL ND 5.0

HighLimit

Gasoline Range Organics (GRO)

Surr: BFB

910

1000

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

91.5

112

%RPD

Sample ID LCS-23942

SampType: LCS

RunNo: 32426

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date: 2/25/2016

LCSS

Batch ID: 23942

122

112

Analyte

Analysis Date: 2/26/2016

SegNo: 992148 %REC

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 28 5.0 25.00 0 112 Surr: BFB 98.6 990 1000

Oualifiers:

R

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A97

29-Feb-16

Client:

Blagg Engineering

Project:

GCU #231E

| Sample ID MB-23942 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|--------------------------|-------|---------------------------------------|---|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 23942 | | | RunNo: 32426 SeqNo: 992277 | | | | | | |
| Prep Date: 2/25/2016 | Analysis Date: 2/26/2016 | | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

| Sample ID LCS-23942 SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------------|----------------------|-------|---------------------------------------|---------------|------|----------|--------------|------|----------|------|
| Client ID: LCSS | LCSS Batch ID: 23942 | | | RunNo: 32426 | | | | | | |
| Prep Date: 2/25/2016 | | | | SeqNo: 992282 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 111 | 80 | 120 | | | |
| Toluene | 1.2 | 0.050 | 1.000 | 0 | 118 | 80 | 120 | | | |
| Ethylbenzene | 1.2 | 0.050 | 1.000 | 0 | 115 | 80 | 120 | | | |
| Xylenes, Total | 3.5 | 0.10 | 3.000 | 0 | 115 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 122 | 80 | 120 | | | S |

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE, Albuquerque, NM 87109 TEL: 305-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Albuquerque NM 87105 Sample Log-In Check List

| Client Name: BLAGG Work | Order Number: 1602A97 | | RoptNo: 1 |
|--|------------------------|-------------|---------------------------------|
| Received by/date: 01 02/2 | 6/16 | | 4.1 |
| | 16 8:00:00 AM | Wells. | |
| The same and the same of the s | 16 8:17:44 AM | Seld | |
| Reviewed By TO 07/76 | | W.C. 164 | |
| Chain of Custody | lie . | The T | |
| Custody seals intact on sample bottles? | Yes 🗆 | No 🗆 | Not Present 🗸 |
| 2. Is Chain of Custody complete? | Yes 🕏 | No. 🗆 | Not Present |
| 3. How was the sample delivered? | Counter | | |
| Log In | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗆 | NA 🗆 |
| 5. Were all samples received at a temperature of >0° (| 0 to 6,0°C Yes ▼ | No 🗆 | NA 🗆 |
| 6 Sample(s) in proper container(s)? | Yes 🗹 | No 🗆 | |
| 7 Sufficient sample volume for indicated test(s)? | Yes 🗸 | No 🗆 | |
| B. Are samples (except VOA and ONG) properly preser | ved? Yes | No 🗆 | |
| 9. Was preservative added to bottles? | Yes 🗆 | No 🗹 | NA 🗆 |
| 10.VOA vials have zero headspace? | Yes 🗔 | No 🗆 | No VOA Vials |
| 11. Were any sample containers received broken? | Yes 🗆 | No 🗹 | # of preserved bottles chacked |
| 12. Dues paperwork match pottle labels? (Note discrepancies on chain of custody) | Yes 🗹 | No. [] | for pH (<2 or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody | ? Yes 🗹 | No 🗆 | Adjusted? |
| 14, is it clear what analyses were requested? | Yes 🗸 | No 🗆 | Caraconflorer (C. |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🗹 | No 🗆 | Checked by: |
| Special Handling (if applicable) | | | |
| 16. Was client notified of all discrepancies with this order | 7 Yes L | No 🗌 | NA V |
| Person Natified: | Date | | A PARTIE OF |
| By Whom: | Via eMail | Phone 🔲 Fax | ☐ In Person |
| Regarding | | | |
| Client Instructions: | يديون المترجينات | | |
| 17_ Additional remarks; | | | |
| 18. Gooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date | Signed By | Park Tropic and the |
| 1 1.0 Good Yes | - San Line San Daire | - J. 100 M | |



