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

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State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 Revised June 6, 2013

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

| Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application OIL CONS, DIV DIST. 3 |
|---|
| Type of action: Below grade tank registration |
| JAN 0 9 2017 |
| S I 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. |
| I. Operator: BP America Production Company OGRID #: 778 |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name: GALLEGOS CANYON UNIT 222 |
| API Number: 3004511681 OCD Permit Number: |
| U/L or Qtr/Qtr N Section 7 Township 28N Range 12W County: San Juan |
| Center of Proposed Design: Latitude <u>36.67269</u> Longitude <u>-108.15669</u> 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 |
| |
| 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: Thicknessmil 		HDPE 	PVC 	Other |
| |
| Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |
| Submittai of an exception request is required. Exceptions must be submitted to the Santa re 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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify | hospital, |
|--|----------------------------------|
| 6. <u>Netting</u>: 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) | |
| <u>Signs</u>: 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. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> 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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material 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 | □ Yes □ No □ NA □ Yes □ No |
| NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ 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 | |
| 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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | NMAC 15.17.9 NMAC |
| | |
| 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 dot 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 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | .15.17.9 NMAC |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | |
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| 12. <u>Permanent Pits Permit Application Checklist</u> : 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 19.15.17.11 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC | |
| 13. <u>Proposed Closure</u> : 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 | huid Managamant Bit |
| Alternative | luiu Management Fit |
| 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 | |
| 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. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. If 19.15.17.10 NMAC for guidance. | |
| Ground water is less than 25 feet below the bottom of the buried waste. | Yes No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | |
| 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 | |
| Form C-144 Oil Conservation Division Page 4 o | f 6 |

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| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
|---|--------------------------|
| Within the same surplainers subsurface mine | 🗌 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 play a check mark in the box, that the documents are attached. | 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 beli | ief. |
| 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: | 13017 |
| Title: <u>Lavironmontel Opocetist</u> OCD Permit Number: | |
| 19. | |
| | |
| 19. <u>Closure Report (required within 60 days of closure completion)</u> : 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 | |
| ^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 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. | complete this |

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Oil Conservation Division

| | e information and attachments submitte | ed with this closure report is true, accurate and complete to the best of my knowledge and |
|---------------------|---|---|
| | nat the closure complies with all application of the second second second second second second second second se | able closure requirements and conditions specified in the approved closure plan. Title: Field Environmental Coordinator |
| Signature: | Mars Mun | Date: January 6, 2017 |
| e-mail address: ste | ven.moskal@bp.com | Telephone:(505) 326-9497 |

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Gallegos Canyon Unit 222</u> <u>API No. 3004511681</u> Unit Letter N, Section 7, 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.

- 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 | Release Verification | Sample |
|--------------|---|-----------------------------|---------------|
| | 95 bbl BGT | (mg/Kg) | results |
| Benzene | US EPA Method SW-846 8021B or 8260B | 0.2 | < 0.039 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.079 |
| TPH | US EPA Method SW-846 418.1 or 8015 extended | 100 | <u><49</u> |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | <30 |

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 with all concentrations 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 a release has not occurred. 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 a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed once 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 and will be reclaimed once 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 once 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 once 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 once 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.

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.

Closure report on C-144 form is included including photos of reclamation completion.

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report

| OPERATOR | Initial Report | Final Report |
|---------------------------------|--|--|
| Contact: Steve Moskal | | |
| Telephone No.: 505-326-9497 | - | |
| Facility Type: Natural gas well | | |
| | Contact: Steve Moskal Telephone No.: 505-326-9497 | Contact: Steve Moskal Telephone No.: 505-326-9497 |

Surface Owner: Federal

Mineral Owner: Federal

API No. 3004511681

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County: San Juan |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|------------------|
| N | 7 | 28N | 12W | 1,070 | South | 1,450 | West | |

Latitude <u>36.67269°</u> Longitude <u>-108.15669°</u>

NATURE OF RELEASE

| Type of Release: none | 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? | If YES, To Whom? | |
| | | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Wa | itercourse. |
| If a Watercourse was Impacted, Describe Fully.* | | |
| | | |
| Describe Cause of Problem and Remedial Action Taken.* Sampling of the BTEX, TPH and chloride below BGT closure standards. Field reports an | | ing removal. Soil analysis resulted for |
| Describe Area Affected and Cleanup Action Taken.* No action necessary | . Final laboratory analysis determined | d no remedial action is required. |
| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report defederal, state, or local laws and/or regulations. | otifications and perform corrective ac e NMOCD marked as "Final Report" e contamination that pose a threat to a | ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health |
| Signature: | OIL CONSER | VATION DIVISION |
| | Approved by Environmental Speciali | st: |
| Title: Field Environmental Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: steven.moskal@bp.com | Conditions of Approval: | Attached |
| Date: January 6, 2017 Phone: 505-326-9497 | | |

* Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

October 17, 2016

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: GALLEGOS CANYON UNIT 222 API #: 3004511681

Dear Mrs. Thomas,

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 October 21, 2016. 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.

If witnessing of the tank removal is required please contact me for a specific time (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Moskal, Steven

From:Moskal, StevenSent:Monday, October 31, 2016 7:37 AMTo:'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRDCc:jeffcblagg@aol.com; blagg_njv@yahoo.com; Salazar, Augustine T (Augie)Subject:RE: BP Pit Close Notification - GCU 222 - RESCHEDULED

The BGT is scheduled to removed today at 1:30 PM.

Thanks,

Steve Moskal BP Lower 48 – San Juan – Farmington Field Environmental Coordinator Office: (505) 326-9497 Cell: (505) 330-9179



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From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us] Sent: Thursday, October 27, 2016 3:53 PM To: Moskal, Steven; Fields, Vanessa, EMNRD Cc: jeffcblagg@aol.com; blagg_njv@yahoo.com Subject: RE: BP Pit Close Notification - GCU 222 - RESCHEDULED

Steve,

I am trying to sort out the schedule, what BGT is plan for tomorrow? And which is now moved to Friday?

Could you let us know the schedule,

Thanks,

ALC: ALC: ALC: NO.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Moskal, Steven [mailto:Steven.Moskal@bp.com] Sent: Thursday, October 27, 2016 8:58 AM To: Fields, Vanessa, EMNRD <<u>Vanessa.Fields@state.nm.us</u>>; Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>

1

Cc: Railsback, Farrah (CH2M HILL) <<u>Farrah.Railsback@bp.com</u>>; <u>jeffcblagg@aol.com</u>; <u>blagg_njv@yahoo.com</u>; Salazar, Augustine T <<u>augustine.salazar@bp.com</u>>; Hixon, Vance E <<u>Vance.Hixon@bp.com</u>> Subject: Re: BP Pit Close Notification - GCU 222 - RESCHEDULED

This work has been rescheduled to Monday. A time will be determined and you will be notified.

Sorry for any inconvenience,

Steve Moskal Field Environmental Coordinator BP San Juan South Cell: (505) 330-9179

Sent from my mobile device

On Oct 26, 2016, at 7:58 AM, Moskal, Steven <<u>Steven.Moskal@bp.com</u>> wrote:

The BGT is scheduled to be closed at 2:00 PM tomorrow 10/27.

Thank you,

Steve Moskal Field Environmental Coordinator BP San Juan South Cell: (505) 330-9179

Sent from my mobile device

On Oct 21, 2016, at 11:05 AM, Railsback, Farrah (CH2M HILL) < Farrah.Railsback@bp.com wrote:

The work on this site has been rescheduled to Tuesday October 25th.

Thank you. Farrah

From: Railsback, Farrah (CH2M HILL)
Sent: Monday, October 17, 2016 2:13 PM
To: 'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (<u>Vanessa.Fields@state.nm.us</u>)'
Cc: 'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven
Subject: BP Pit Close Notification - GCU 222

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

SENT VIA E-MAIL TO: <u>CORY.SMITH@STATE.NM.US;</u> <u>VANESSA.FIELDS@STATE.NM.US</u> October 17, 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 222 API 30-045-11681 (N) Section 7 – 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 95BBL BGT that will no longer be operational at this well site. We anticipate this work to start on or around October 21, 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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| חס | BLAGG ENG | INEERING, INC. | | API# 300451 | 1681 |
|---|---|--|--|--|---|
| CLIENT: BP | P.O. BOX 87, BLC | | 7413 | | |
| | (505) | 632-1199 | | (if applicble): | 4 |
| FIELD REPORT: | (circle one): BGT CONFIRMATION / REI | LEASE INVESTIGATION / OTHER: | | PAGE #:1 | of _1 |
| SITE INFORMATION | Management of the second se | | | DATE STARTED: 10 | 31/16 |
| QUAD/UNIT: N SEC: 7 TWP: | 28N RNG: 12W PM: | NM CNTY: SJ S | т: NM | DATE FINISHED: | |
| 1/4-1/4/FOOTAGE: 1,070'S / 1,4 LEASE #: SF078109 | 50'W SE/SW LEASE TYPE: PROD. FORMATION: DK CONTI | CTDIKE | | ENVIRONMENTAL SPECIALIST(S): | 1JV |
| REFERENCE POINT | | | | GL ELEV.: | 5,566' |
| 1) 95 BGT (SW/DB) - B | | 269 X 108.15669 | | | |
| 2) | GPS COORD.: | | DISTANCE/BEA | RING FROM W.H.: | |
| 3) | GPS COORD.: | | DISTANCE/BEA | RING FROM W.H.: | |
| 4) | GPS COORD.: | | DISTANCE/BEA | RING FROM W.H.: | |
| | CHAIN OF CUSTODY RECORD(S) # OR LA | | | | OVM READING (ppm) |
| 1) SAMPLE ID: 5PC - TB @ 5' | (95) SAMPLE DATE: 10/31/16 | SAMPLE TIME: 1350 LAB AN | ALYSIS: 801 | 5B/8021B/300.0 (CI) | NA |
| 2) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB AN | ALYSIS: | | _ |
| 3) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB AN | ALYSIS: | | |
| 4) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB AN | ALYSIS: | | |
| SAMPLE TYPE: GRAB COMPOSITE # DISCOLORATION/STAINING OBSERVED: YES N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA OTHER: IMPORTED GRAVEL PLACED IN SOIL IMPACT DIMENSION ESTIMATION: | O EXPLANATION - OLIVE GRAY CLAYST | NO EXPLANATION - TON: ALLOW LOW PROFILE ABOV I. NMOCD REP. PRESENT TO | BGT BOTTON /E-GRADE TAI D WITNESS CO | I. NK TO BE SET ATOP BGT | LOCATION |
| DEPTH TO GROUNDWATER: >100' N | | | 000' NMOC | D TPH CLOSURE STD:, | 000 ppm |
| SITE SKETCH | BGT Located : off on site | PLOT PLAN circle: a | | | |
| TO W. | H. N DEPRESSION; B.G. = BELOW GRADE; B = BELOW; | T.H. = TEST HOLE; ~ = APPROX.; W.H. = V | | CD Appr. date(s): 10/1 OVM = Organic Vapor M ppm = parts per million BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y | 2 09/10 17/16 leter N N N N |
| T.B. ~ 5' B.G. FENCE BE NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELC | SEPARATOR SEPARATOR BERM BERM | TANK X - S T.H. = TEST HOLE; ~= APPROX.; W.H. = V DESIGNATION; R.W. = RETAINING WALL; N | | MISCELL. NO /O: EF #: P - 739 ID: VHIXONEVB2 J #: ermit date(s): 06/(CD Appr. date(s): 10/1 K OVM = Organic Vapor M ppm = parts per million BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y | NA TES 09/10 17/16 eter N N N |

BEI1005E-6.SKF

| Hall Er | nvironmental Analysis | Labora | atory, Inc. | | | Date Reported: 11/3/20 | 16 |
|--------------------------------|---|---------|------------------|------------|----------|---|-------|
| CLIENT: Project: Lab ID: | Blagg Engineering GCU 222 1611001-001 | Matrix: | (MEOH (SOIL) | Collection | Date: 10 | C-TB@5' (95) /31/2016 1:50:00 PM /1/2016 8:15:00 AM | ; |
| Analyses | | Result | PQL Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 300.0: ANIONS | | | | 2 | Analyst | LGT |
| Chloride | | ND | 30 | mg/Kg | 20 | 11/1/2016 2:52:38 PM | 28393 |
| EPA MET | HOD 8015M/D: DIESEL RANGE | ORGANIC | S | | | Analyst | TOM |
| Diesel Ra | ange Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 11/1/2016 10:14:32 AM | 28391 |
| Motor Oil | Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/1/2016 10:14:32 AM | 28391 |
| Surr: D | DNOP | 89.4 | 70-130 | %Rec | 1 | 11/1/2016 10:14:32 AM | 28391 |
| EPA MET | HOD 8015D: GASOLINE RANGE | E | | | | Analyst | NSB |
| Gasoline | Range Organics (GRO) | ND | 3.9 | mg/Kg | 1 | 11/1/2016 9:11:20 AM | 28377 |
| Surr: E | BFB | 90.6 | 68.3-144 | %Rec | 1 | 11/1/2016 9:11:20 AM | 28377 |
| EPA MET | HOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | | ND | 0.039 | mg/Kg | 1 | 11/1/2016 9:11:20 AM | 28377 |
| Toluene | | ND | 0.039 | mg/Kg | 1 | 11/1/2016 9:11:20 AM | 28377 |
| Ethylbenz | zene | ND | 0.039 | mg/Kg | 1 | 11/1/2016 9:11:20 AM | 28377 |
| Xylenes, | Total | ND | 0.079 | mg/Kg | 1 | 11/1/2016 9:11:20 AM | 28377 |
| Surr: 4 | Bromofluorobenzene | 105 | 80-120 | %Rec | 1 | 11/1/2016 9:11:20 AM | 28377 |
| | | | | | | | |

Analytical Report Lab Order 1611001

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611001

03-Nov-16

| Client: Project: | Blagg E GCU 22 | ngineering 2 | | 7 | - | | 3 | | | | |
|---|---------------------------------------|--------------------------------|--------|-----------|-------------|----------|-----------|--------------|------|----------|------|
| Sample ID | MB-28393 | SampTyp | be: mb | olk | Tes | tCode: E | PA Method | 300.0: Anion | S | x x | |
| Client ID: | PBS | S Batch ID: 28393 RunNo: 38370 | | | | | | | | | |
| Prep Date: 11/1/2016 Analysis Date: 11/1/2016 SeqNo: 1198745 Units: mg/Kg | | | | | | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | · · · · · · · · · · · · · · · · · · · | ND | 1.5 | | | | | × | * | · · · · | |
| Sample ID | LCS-28393 | SampTyp | e: Ics | 5 | Tes | tCode: E | PA Method | 300.0: Anion | s | | |
| Client ID: | LCSS | Batch II | D: 28 | 393 | F | RunNo: 3 | 8370 | | | | |
| Prep Date: | 11/1/2016 | Analysis Dat | e: 11 | 1/1/2016 | 5 | SeqNo: 1 | 198746 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 14 | 1.5 | 15.00 | 0 | 95.0 | 90 | 110 | | | |

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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 2 of 5

WO#: 1611001 03-Nov-16

| Hall Environmental | l Analysis | Laboratory, | Inc. |
|--------------------|------------|-------------|------|
|--------------------|------------|-------------|------|

| Client: Project: | Blagg Eng GCU 222 | - | | | | 4 | | 1 | 3 | | | |
|---|---------------------------------------|---|----------------------------------|---|-----------------------------|--|---|---|------------|------------|------|--|
| Sample ID | LCS-28391 | SampTy | pe: LC | s | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | | |
| Client ID: | LCSS | Batch | ID: 28 | 391 | RunNo: 38355 | | | | | | | |
| Prep Date: | 11/1/2016 | Analysis Da | te: 1 | 1/1/2016 | S | SeqNo: 1 | 197442 | Units: mg/h | ٢g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range (| Organics (DRO) | 46 | 10 | 50.00 | 0 | 92.0 | 62.6 | 124 | | | | |
| Surr: DNOP | | 4.1 | | 5.000 | | 82.4 | 70 | 130 | | | | |
| Sample ID MB-28391 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | | | | | |
| Client ID: | PBS | Batch | D: 28 | 391 | R | RunNo: 3 | 8355 | | | | | |
| Prep Date: | e: 11/1/2016 Analysis Date: 11/1/2016 | | | 1/1/2016 | S | | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range (| Organics (DRO) | ND | 10 | | | | | | 1.1 | | | |
| Motor Oil Rang | e Organics (MRO) | ND | 50 | | | | | | | | | |
| Surr: DNOP | | 8.7 | | 10.00 | m | 87.3 | 70 | 130 | | | | |
| Sample ID | 1611001-001AMS | SampTy | pe: MS | 3 | Test | Code: El | PA Method | 8015M/D: Di | esel Range | e Organics | | |
| Client ID: | 5PC-TB@5' (95) | Batch I | D: 28 | 391 | R | unNo: 3 | 8355 | | | | | |
| Prep Date: | 11/1/2016 | Analysis Da | te: 1' | 1/1/2016 | SeqNo: 1197844 Units: mg/Kg | | | | | | | |
| | | - | | | | | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| | Organics (DRO) | Result 48 | PQL 9.8 | SPK value 49.07 | SPK Ref Val 0 | %REC 97.8 | LowLimit 33.9 | HighLimit 141 | %RPD | RPDLimit | Qual | |
| | Drganics (DRO) | | | | | | | | %RPD | RPDLimit | Qual | |
| Diesel Range C Surr: DNOP | Drganics (DRO) 1611001-001AMSE | 48 4.4 | 9.8 | 49.07 4.907 | 0 | 97.8 89.5 | 33.9 70 | 141 | | | Qual | |
| Diesel Range (Surr: DNOP Sample ID | | 48 4.4 | 9.8 pe: M \$ | 49.07 4.907 | 0 Test | 97.8 89.5 | 33.9 70 PA Method | 141 130 | | | Qual | |
| Diesel Range C Surr: DNOP Sample ID Client ID: | 1611001-001AMSE | 48 4.4 O SampTy | 9.8 pe: MS D: 28 | 49.07 4.907 SD 391 | 0 Test R | 97.8 89.5 Code: EF | 33.9 70 PA Method 8355 | 141 130 | esel Range | | Qual | |
| Diesel Range C Surr: DNOP Sample ID Client ID: | 1611001-001AMSE 5PC-TB@5' (95) | 48 4.4 O SampTyp Batch I Analysis Dat | 9.8 pe: MS D: 28 | 49.07 4.907 SD 391 1/1/2016 | 0 Test R | 97.8 89.5 Code: EF RunNo: 38 SeqNo: 11 | 33.9 70 PA Method 8355 | 141 130 8015M/D: Die | esel Range | | Qual | |
| Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte | 1611001-001AMSE 5PC-TB@5' (95) | 48 4.4 O SampTyp Batch I Analysis Dat | 9.8 pe: MS D: 28 te: 11 | 49.07 4.907 SD 391 1/1/2016 | 0 Test R S | 97.8 89.5 Code: EF RunNo: 38 SeqNo: 11 | 33.9 70 PA Method 8355 197845 | 141 130 8015M/D: Die Units: mg/K | esel Rango | e Organics | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- в Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified
- Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611001 03-Nov-16

| Client: Blagg E Project: GCU 22 | ngineering 22 | | | | | | | | | | | | |
|------------------------------------|-------------------------|---------|-----------|-------------|--|-----------|-------------|-----------|----------|------|--|--|--|
| Sample ID MB-28377 | IB-28377 SampType: MBLK | | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
| Client ID: PBS | Batch ID: 28377 | | | | RunNo: 38364 | | | | | | | | |
| Prep Date: 10/31/2016 | Analysis D | ate: 1 | 1/1/2016 | s | eqNo: 1 | 198102 | Units: mg/k | g | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.5 | 68.3 | 144 | | | | | | |
| Sample ID LCS-28377 | SampT | ype: LC | S | Tes | Code: El | PA Method | 8015D: Gaso | line Rang | e | | | | |
| Client ID: LCSS | Batch | D: 28 | 377 | R | unNo: 3 | 8364 | | | | | | | |
| Prep Date: 10/31/2016 | Analysis D | ate: 1 | 1/1/2016 | S | eqNo: 1 | 198103 | Units: mg/K | g | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 105 | 74.6 | 123 | | | × . | | | |
| Surr: BFB | 980 | | 1000 | | 98.2 | 68.3 | 144 | | | | | | |

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611001

03-Nov-16

| | Blagg Engineering GCU 222 | | | | | | | | | | |
|----------------------------|------------------------------|-----------------|-------------|----------|--------------|-------------|-------|----------|------|--|--|
| Sample ID MB-28377 | SampType: N | IBLK | Tes | tiles | 2 | | | | | | |
| Client ID: PBS | Batch ID: 2 | Batch ID: 28377 | | | RunNo: 38364 | | | | | | |
| Prep Date: 10/31/2016 | Analysis Date: | 1/1/2016 | S | SeqNo: 1 | 198129 | Units: mg/k | ٢g | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | ND 0.025 | ; | | | | | | | 2 | | |
| Toluene | ND 0.050 |) | | | | | | | | | |
| Ethylbenzene | ND 0.050 |) | | | | | | | | | |
| Kylenes, Total | ND 0.10 |) | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | 1.000 | | 107 | 80 | 120 | | | | | |
| Sample ID LCS-28377 | SampType: L | cs | Tes | Code: El | PA Method | 8021B: Vola | tiles | í s c | | | |
| Client ID: LCSS | Batch ID: 2 | 8377 | R | unNo: 3 | 8364 | | | | | | |
| Prep Date: 10/31/2016 | Analysis Date: | 1/1/2016 | S | eqNo: 1 | 198130 | Units: mg/K | (g | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | 0.91 0.025 | 1.000 | 0 | 91.1 | 75.2 | 115 | | | | | |
| Toluene | 0.93 0.050 | 1.000 | 0 | 93.1 | 80.7 | 112 | | | | | |
| Ethylbenzene | 0.97 0.050 | 1.000 | 0 | 97.3 | 78.9 | 117 | | | | | |
| kylenes, Total | 2.9 0.10 | 3.000 | 0 | 95.6 | 79.2 | 115 | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | 1.000 | | 113 | 80 | 120 | | | | | |

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 S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Page 5 of 5

| ANALYSIS LABORATORY | TEL: 505-345-397 | 4901 Hawkin mquerque, NM 82 | s NE 7109 Sam 4107 | ple Log-In Check List |
|---|---------------------------|--------------------------------|--------------------------|--|
| Client Name: BLAGG | Work Order Number | : 1611001 | | RcptNo: 1 |
| Received by/date: | nlotis | | | |
| Logged By: Lindsay Mangin | 11/1/2016 8:15:00 AM | 1 | Junely Hanger | |
| Completed By: Lindsay Mangin | 11/1/2016 8:34:24 AM | | Annalis Hanna | |
| Reviewed By: aJ | 11/01/16 | | 05.00 | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottle | es? | Yes | No 🗆 | Not Present 🗹 |
| 2. Is Chain of Custody complete? | | Yes 🗹 | No 🗌 | Not Present |
| 3. How was the sample delivered? | | Courier | | |
| Log In | | | | |
| 4. Was an attempt made to cool the sa | mples? | Yes 🗹 | No 🗌 | |
| 5. Were all samples received at a temp | erature of >0° C to 6.0°C | Yes 🗹 | No 🗌 | |
| 6. Sample(s) in proper container(s)? | | Yes 🗹 | No 🗌 | |
| 7. Sufficient sample volume for indicate | d test(s)? | Yes 🖌 | No 🗌 | |
| 8. Are samples (except VOA and ONG) | properly preserved? | Yes 🖌 | No 🗌 | |
| 9. Was preservative added to bottles? | | Yes | No 🔽 | |
| 10. VOA vials have zero headspace? | | Yes | No 🗆 | No VOA Vials |
| 11. Were any sample containers receive | d broken? | Yes | No 🗹 | # of preserved |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custo | | Yes 🗹 | No 🗆 | bottles checked for pH: (<2 or >12 unless noted) |
| 13. Are matrices correctly identified on C | hain of Custody? | Yes 🗹 | No 🗆 | Adjusted? |
| 14, Is it clear what analyses were reques | ted? | Yes 🗹 | No 🗆 | |
| 15. Were all holding times able to be me (if no, notify customer for authorization | | Yes 🗹 | No 🗌 | Checked by: |
| | | | | , |

Special Handling (if applicable)

| 16. Was client notified of all dis | crepancies with this order? | Yes [| No 🗆 | NA 🗹 |
|------------------------------------|--|-------|-----------|-----------|
| Person Notified: | Date | | | |
| By Whom: | Via: | eMail | Phone Fax | In Person |
| Regarding: | and an a first first data and an | | | |
| Client Instructions: | and the second | | | |

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 4.2 | Good | Yes | | | |

| ient: | BLAG | G ENGR. | / BP AMERICA | Standard Project Name | | SAME DAY | | | | AN | AL | YS | 519 | S L | AE | 30 | RA | | | |
|---------------------|--------------|-------------|---------------------------|--|---------------------------------------|---|--|------------------------------|----------------------|--|------------------------|---------------|-------------------------------|------------------------------|-------------|-----------------|------------------|---------------|---------------|--|
| lailing A | ddress: | P.O. BO | (87 | | GCU # 22 | 2 | | 490 |)1 Ha | ww wkins | W.ha | | | | | | | 9 | | |
| | | | FIELD, NM 87413 | Project #: | | | 1 | | | | | | - | | | | | | | |
| hone #: | a a secul | (505) 63 | | | | | Tel. 505-345-3975 Fax 505-345-4107 Analysis Request | | | | | | | | | | | | | |
| mail or F | ax#: | | ***** | Project Manag | ger: | | | | | | 2.00 | | 4) | 1947 - 1 - - | | | 300.1) | | | Τ |
| A/QC Pa 3 Standa | - | | Level 4 (Full Validation) | | NELSON V | ELEZ | TMB ¹ s (8021B) | (ylno s | / MRO) | | (S) | | PO4,SO | 2 PCB's | | | water - 30 | | | e |
| ccreditat | ion: | | | Sampler: | NELSON V | Concerning and the second se | j L | H (Ga | DRO | a a | OSIN | | NO2, | 808 | | | | | | dub |
| I NELAP | | Other_ | | | X Yes | | Ŧ | đI + | 2 | 418 504 | 827 | s | NO ₃ , | es / | | (VO) | 300.0 | | | or N |
| Date | ype) Time | Matrix | Sample Request ID | Sample Lemp Container Type and # | erature: 4. Z Preservative Type | HEAL NO. | BTEX + MTBE | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO | TPH (Method 418.1) EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F,Cl,NO3,NO2,PO4,SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil - | | Grab sample | 5 pt. composite sample Air Bubbles (Y or N) |
| \$3116 | 1350 | SOIL | 5PC - TB @ 5 ' (95) | 4 oz 1 | Cool | -001 | V | | V | | | | | | | | V | | 1 | V |
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| ate: | Time: | Relinquishe | d,by: | Received by: | } | Date Time | Rem | arks | : в | ILL DIRE | CTLY T | OBP | USING | S THE | CIRCL | ED CO | ONTAC | TWIT | <u>н</u> | |
| 3/31/16 | hest | n | ny | Aprist L | Joek " | 131/10 1651 | | | ſ | Vanc | e Hix | on | St | eve | Mos | kal | Jo | hn Ri | tchie | |
| | Time: | Relinquishe | tin labela / | Reperved by: | anolas | Date Time | Refe | eren | /ID: ce # | VHIX | DNEV - 739 | B2 | VN | lose | SHQF | EC | VF | RITCJV | NFEC | |

505-947-9900

BP AMERICA PRODUCTION COMPANY GALLEGOS CANYON UNIT 222 API 3004511681 LEASE NMNM78391C 1070 FSL 1450 FWL (N) SEC 7 T28N R12W San Juan County ELEV 5566 LAT 36° 40' 20.928" LONG 108° 9' 24.840"

