<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 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
12400 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration OIL CONS. DIV DIST. 3
Permit of a pit or proposed alternative method LIS-24291 Closure of a pit, below-grade tank, or proposed alternative method NOV 2 4 2014
US-24391 ☐ 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.
I. D. A. C. D. A. C.
Operator: BP America Production CompanyOGRID#:778
Address:200 Energy Court, Farmington, NM 87401
Facility or well name:Gallegos Canyon Unit 145E
API Number:3004524291 OCD Permit Number:
U/L or Qtr/QtrD Section26 Township29N Range12W County:San Juan
Center of Proposed Design: Latitude36.70248 Longitude108.07426 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: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank B
Volume:45.0bbl 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 walled/double bottomed
Liner type: Thickness mil

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5						
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)						
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church)	, hospital,					
Four foot height, four strands of barbed wire evenly spaced between one and four feet						
Alternate. Please specify						
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.	ptable source					
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.						
General siting						
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA					
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes☐ No☐ NA					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)	Yes No					
- Written confirmation or verification from the municipality; Written approval obtained from the municipality						
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)	Yes No					
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 						
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	☐ Yes ☐ No					
from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site						
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.	☐ Yes ☐ No					
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site						
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	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							
Temporary Pit Non-low chloride drilling fluid	:						
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Permanent Pit or Multi-Well Fluid Management Pit							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).							
- Topographic map; Visual inspection (certification) of the proposed site	Yes No						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
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 docattached. 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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. 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 docattached. 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 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) AP1 Number: or Permit Number: or Permit Number:							

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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
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 Management Pit
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	
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. It 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
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
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								
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.								
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 								
Within a 100-year floodplain FEMA map								
16.	<u> </u>							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
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 believes.	ef.							
Name (Print): Title:								
Signature: Date:								
e-mail address: Telephone:								
e-mail address:								
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1/8/26	the closure report.							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	the closure report.							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1/8/20 Title: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report 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.	the closure report.							

Form C-144 Oil Conservation Division Page 5 of 6

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirements.	
Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Signature: Aff Rose	Date:November 24, 2014
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

OIL CONS. DIV DIST. 3

JAN 08 2015

Gallegos Canyon Unit 145E, BGT Tank B (45 bbl) API No. 3004524291 Unit Letter D, Section 26, T29N, 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.
 - No notice was made due to misunderstanding of the BGT notice requirements at that time.
- 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.
 - No notice was made due to misunderstanding of the BGT notice requirements at that time.
- 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 to a storage area for sale and re-use.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	45 bbl BGT, Tank B	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	94.8
TPH	US EPA Method SW-846 418.1	100	3,300
Chlorides	US EPA Method 300.0 or 4500B	250 or background	ND

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 and chloride levels were below the stated limits. TPH and BTEX exceeded the standards in the initial sample. Soil impacts will be addressed in a separate C-141. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

 Sampling results indicate a minor release occurred directly beneath the BGT.
- 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

The area under the BGT was backfilled with clean soil and is still within the active well area.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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.

BP will seed the area when the well is plugged and abandoned as part of final reclamation.

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.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

District 1
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
Submit I Copy to appropriate District Office in

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						
	☐ Initia	al Report 🛛 Final Report				
Name of Company: BP	Contact: Jeff Peace					
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-94					
Facility Name: Gallegos Canyon Unit 145E	Facility Type: Natural gas v	vell				
Surface Owner: Federal Mineral Owner	r: Federal	API No	. 3004524291			
LOCATI	ON OF RELEASE					
	rth/South Line Feet from the	East/West Line	County: San Juan			
D 26 29N 12W 790 No.	rth 990	West				
Latitude 36.70248	Longitude 108.07426					
NATUR	E OF RELEASE					
Type of Release: condensate or oil	Volume of Release: N/A		Recovered: none			
Source of Release: below grade tank – 45 bbl, Tank B	Date and Hour of Occurrenc unknown	e: Date and 2012; 9:2	Hour of Discovery: May 3, 5 AM			
Was Immediate Notice Given?	If YES, To Whom?					
☐ Yes ☒ No ☐ Not Require	ed					
By Whom?	Date and Hour					
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting t	he Watercourse.				
If a Watercourse was Impacted, Describe Fully.*						
in a watercourse was impacted, Describe Funy.						
Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in chloride below standards. TPH and BTEX exceed the standards in the initial sample. Soil below the BGT on top of sandstone bedrock was excavated and removed, and subsequent soil sampling downgradient of the BGT showed BTEX and TPH below the standards. Analysis results are attached.						
Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. Sampling analysis indicated a minor release had occurred. Impacted soil will be addressed through the spill and release guidelines and a separate C-141 will be submitted.						
I hereby certify that the information given above is true and complete t regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications and perform correct the NMOCD marked as "Final Rolliate contamination that pose a three	tive actions for rele eport" does not reli eat to ground water	eases which may endanger eve the operator of liability s, surface water, human health			
0-10-0	OIL CONS	SERVATION	DIVISION			
Signature: Off Page						
Printed Name: Jeff Peace Approved by Environmental Specialist:						
Title: Field Environmental Coordinator	Approval Date:	Expiration	Date:			
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:		Attached []			
Date: November 24, 2014 Phone: 505-326-9479			_			

^{*} Attach Additional Sheets If Necessary

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413					API #: 300)45 <u>2</u> 4;	291	
		(505)	632-119	9	18-419		(if applicble):	В	
FIELD REPORT:	(circle one): BGT CONFI	RMATION / REL	EASE INVESTIG	GATION / (OTHER:		PAGE #:	1 of	1_
SITE INFORMATION		CU # 145	*				DATE STARTED:	05/0	3/12
QUAD/UNIT: D SEC: 26 TWP:	29N RNG: 12			<u>: SJ</u>		MM_	DATE FINISHED:	05/0	7/12
1/4 -1/4/FOOTAGE: 790'N / 990'V LEASE #: SF079907	NW/NW PROD. FORMATION:	LEASE TYPE: OK CONTE		KHOR	N	AN	ENVIRONMENTAL SPECIALIST(S):	ŊJ	V
REFERENCE POINT	: WELL HEAD (7428	GL ELI	EV.: 5. -	461'
1) 45 BGT (SW/DB)							ARING FROM W.H.:	91', \$	
2)	GPS COORD.:				DIS	TANCE/BE/	ARING FROM W.H.:		
3)	GPS COORD.:				DIS	TANCE/BE/	ARING FROM W.H.:		
4)	GPS COORD.:				DIS	TANCE/BE/	ARING FROM W.H.:		
SAMPLING DATA:	CHAIN OF CUSTODY REC	CORD(S) # OR LAE	B USED:	HAL	L			·	OVM READING
1) SAMPLE ID: 5 PC-TB @ 5' (45	BGT) SAMPLE DATE:	05/03/12	SAMPLE TIME:	0925	LAB ANALYSIS:	118.1/8	015B/8021/B/3	00.0 (CI)	(ppm) NA
2) SAMPLE ID: HA - NWC @ 2.5' (4	5 BGT) SAMPLE DATE:	05/07/12	SAMPLE TIME:	0950	LAB ANALYSIS:	8018	5B/8021/B/300.0) (CI)	0.0
3) SAMPLE ID: TH @ 4' (45 BG	SAMPLE DATE:	05/07/12	SAMPLE TIME:	1052	LAB ANALYSIS:		8015B		0.0
4) SAMPLE ID:	SAMPLE DATE:		SAMPLE TIME:		LAB ANALYSIS:				
SOIL DESCRIPTION	SOIL TYPE: SA	ND / SILTY SAN	D/SILT/SILT	Y CLAY /	CLAY / GRAV	EL OTI	HER BEDROCK	(SANDST	ONE)
SOIL COLOR: DARK YELL	OWISH ORANGE								
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL' CONSISTENCY (NON COHESIVE SOILS); LC			,				COHESIVE / MEDIUM PLAST		
MOISTURE: DRY/SLIGHTLY MOIST/MOIST/W			,			•	/FIRM/STIFF/VER ANATION - STROI		
SAMPLE TYPE: GRAB COMPOSITE # OF PTS.			PHYSICA		-D.[120]140				
DISCOLORATION/STAINING OBSERVED	YES NO EXPLANATION	ON	<u>'</u>						
ANY AREAS DISPLAYING WETNESS: YES NO	TEXPLANATION -							-	
ADDITIONAL COMMENTS: AREA OF A	PARENT HYDROCARE							CORNER	
OUTSIDE OF RETAINING WALL (VERY	/ LIMITED QUANTITY).	EXCAVATE	AND TRAN	SPORT	TO CROU	CH ME	SA LF.		
SOIL IMPACT DIMENSION ESTIMATION:	12 ft. X	12 ft.	·X 1	ft.	EXCAVATI	ON EST	IMATION (Cubic Ya	rds) :	5
DEPTH TO GROUNDWATER: <50' N	EAREST WATER SOURCE:		AREST SURFA		_<1,000'		D TPH CLOSURE STO	,	_ ppm
SITE SKETCH	₄ ТО		PLOT PL	AN circ	cle: attache	d OVM	CALIB. READ. = 52	. 1 ppm	
>	WELL HEAD						CALIB. GAS =		111 - 0.02
TO \\ METER	NEAD				N	.		DATE: 05/	
RUN						' I	MISCELL	NOT	FS
						١v	NO -N1485530		
EXPOSED 1	TH					I —	PO - 72497		
2" PIPING>	1	WOODEN				1 -	PK - ZSCHWLLB	GT	
15' ✓ /	BERM	R.W.			SITE ENTRANO	_{`F} <u>F</u>	PJ#-Z2-00690-0	;	
TO SEP.	Marin Control of the	PBGTL			>	· _			
PROD. TANK	$\int ((x \hat{x} x) + \int (x \hat{x} x) dx$	—— T.B. ~ 6'					ermit date(s): 06		
		B.G.				Tan	CD Appr. date(s)	: 11/30/11	<u> </u>
HA- NW C @ 2.5'				,	·	_ID		ibles Y)/ N	/ NA
S.P.D.	ATION DEDDECCION D.O DE	I OWO DADE: D = F	ロロ ハル・エリー・エ		X - S.P.I	ን. -	BGT Sidewalls Vis		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAV T.B. = TANK BOTTOM; PBGTL = PREVIOUS	BELOW-GRADE TANK LOCATIO	ON; SPD = SAMPLE	POINT DESIGNAT	TION; R.W. =	RETAINING WAI	.L; <u> </u>	lagnetic declinat		
NA-NOT APPLICABLE OR NOT AVAILABLE TRAVEL NOTES: CALLOUT:	; SW-SINGLE WALL; DW-DO	UBLE WALL; SB - SI					94/12 (Sched.)	· ···	
TRAVEL NOTES: CALLOUT:			_ ONSLIE:	USIUSI	12 (OCHEO	. ,, ບວ/ບ	mi iz (ociieu.)		

Analytical Report

Lab Order 1205341

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/16/2012

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 5' (45 BGT)

Project: GCU #145E

Collection Date: 5/3/2012 9:25:00 AM

Lab ID: 1205341-001

Matrix: SOIL Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	810	200		mg/Kg	20	5/10/2012 1:43:51 PM
Surr: DNOP	0	77.4-131	S	%REC	20	5/10/2012 1:43:51 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	1,200	240		mg/Kg	50	5/10/2012 11:13:41 PM
Surr: BFB	177	69.7-121	S	%REC	50	5/10/2012 11:13:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Toluene	12	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Ethylbenzene	2.8	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Xylenes, Total	80	4.7		mg/Kg	50	5/10/2012 11:13:41 PM
Surr: 4-Bromofluorobenzene	96.8	80-120		%REC	50	5/10/2012 11:13:41 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	15		mg/Kg	10	5/10/2012 9:41:45 AM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	3,300	200		mg/Kg	10	5/14/2012

^{*/}X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Analytical Report

Lab Order 1205341

Date Reported: 5/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-NWC @ 2.5' (45 BGT)

Project: GCU #145E

Collection Date: 5/7/2012 9:50:00 AM

Lab ID: 1205341-002

Matrix: SOIL Received Date: 5/

Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/10/2012 12:38:50 PM
Surr: DNOP	104	77.4-131	%REC	1	5/10/2012 12:38:50 PM
EPA METHOD 8015B: GASOLINE RAM	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2012 11:42:26 PM
Surr: BFB	110	69.7-121	%REC	1	5/10/2012 11:42:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	5/10/2012 11:42:26 PM
Toluene	ND	0.047	mg/Kg	1	5/10/2012 11:42:26 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2012 11:42:26 PM
Xylenes, Total	ND	0.095	mg/Kg	1	5/10/2012 11:42:26 PM
Surr: 4-Bromofluorobenzene	94.4	80-120	%REC	1	5/10/2012 11:42:26 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	5/10/2012 9:54:09 AM

- */X Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1205341

Date Reported: 5/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH @ 4' (45 BGT)

Collection Date: 5/7/2012 10:52:00 AM

GCU #145E Project: Lab ID:

1205341-003

Matrix: SOIL

Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/10/2012 1:00:25 PM
Surr: DNOP	106	77.4-131	%REC	1	5/10/2012 1:00:25 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2012 12:11:11 AM
Surr: BFB	107	69.7-121	%REC	1	5/11/2012 12:11:11 AM

- Value exceeds Maximum Contaminant Level. */X
- Е Value above quantitation range
- Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205341

16-May-12

Client:

Blagg Engineering

Project:

GCU #145E

Sample	ID	MB-1873
--------	----	---------

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 1873

RunNo: 2688

Prep Date: 5/9/2012 Analysis Date: 5/10/2012

SeqNo: 74818

Units: ma/Ka

Analyte

Result **PQL**

HighLimit

%RPD **RPDLimit**

Qual

Chloride

ND 1.5

Sample ID LCS-1873

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID: Prep Date: 5/9/2012

Batch ID: 1873

RunNo: 2688

SeqNo: 74819

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Analyte

Analysis Date: 5/10/2012 Result

LowLimit

HighLimit

Qual

Client ID:

14

SPK value SPK Ref Val **PQL** 1.5 15.00

%REC 0 94.6

110

90

RPDLimit

Chloride

Sample ID 1205341-002AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

RunNo: 2688

Prep Date: 5/9/2012

HA-NWC @ 2.5' (45 Batch ID: 1873

SeqNo: 74825

Units: mg/Kg

%RPD

Analyte

Analysis Date: 5/10/2012

16

Result

SPK value SPK Ref Val 2.983

%REC LowLimit HighLimit

118

RPDLimit

Qual

Qual

Chloride

Sample ID 1205341-002AMSD

HA-NWC @ 2.5' (45

SampType: MSD Batch ID: 1873

PQL

7.5

7.5

TestCode: EPA Method 300.0: Anions RunNo: 2688

85.7

74.6

Prep Date:

Client ID:

5/9/2012

Analysis Date: 5/10/2012

15

SeqNo: 74826

Units: mg/Kg

%RPD

RPDLimit

Analyte Chloride

Result POL

15.00

15.00

SPK value SPK Ref Val

2.983

%REC 83.1

LowLimit 74.6

118

HighLimit

%RPD 2.42

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 4 of 8

RPD outside accepted recovery limits

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205341

16-May-12

Client:

Blagg Engineering

Project:

GCU #145E

Sample II	MB-1901
-----------	---------

SampType: MBLK

TestCode: EPA Method 418.1: TPH

TestCode: EPA Method 418.1: TPH

Client ID: PRS

5/11/2012

Batch ID: 1901

RunNo: 2740

Prep Date: 5/11/2012

Analysis Date: 5/14/2012 Result

SeqNo: 76094

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Petroleum Hydrocarbons, TR

Sample ID LCS-1901

Client ID: LCSS

Prep Date:

Analyte

Analyte

ND

Result

110

100

PQL

SampType: LCS Batch ID: 1901

RunNo: 2740

Analysis Date: 5/14/2012

PQL

20

SeqNo: 76095

.Units: mg/Kg

HighLimit

%RPD

%RPD

Qual

Qual

Petroleum Hydrocarbons, TR

Batch ID: 1901

%REC 105 0

LowLimit 87.8

115

RPDLimit

Sample ID LCSD-1901

Client ID: LCSS02

SampType: LCSD

TestCode: EPA Method 418.1: TPH

RunNo: 2740

Prep Date: 5/11/2012

Analysis Date: 5/14/2012

SeqNo: 76096

Units: mg/Kg HighLimit

115

RPDLimit

Petroleum Hydrocarbons, TR

PQL

20

SPK value SPK Ref Val %REC

100.0

100.0

SPK value SPK Ref Val

0

102

LowLimit 87.8

%RPD 2.53

8.04

Qualifiers:

R

Value exceeds Maximum Contaminant Level. */X

Analyte detected below quantitation limits Ţ

Value above quantitation range

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Reporting Detection Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205341

16-May-12

Client:

Blagg Engineering

Project:	GCU #14	J.L.											
Sample ID N	лВ-1867	SampTy	ре: М	BLK	Test	tCode: EF	PA Method	8015B: Dies	el Range (Organics			
Client ID: P	PBS	Batch	ID: 18	67	·	RunNo: 26	674						
Prep Date:	5/9/2012	Analysis Da	te: 5/	10/2012	S	SeqNo: 74	4471	Units: mg/h	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Org	ganics (DRO)	ND	10							·			
Surr: DNOP		9.8		10.00		98.4	77.4	131					
Sample ID L	.CS-1867	SampTy	pe: LC	s	Test	Code: EF	PA Method	8015B: Dies	el Range (Organics			
Client ID: L	css	Batch	Batch ID: 1867 RunNo: 2674										
Prep Date:	5/9/2012	Analysis Da	te: 5/	10/2012	S	SeqNo: 74	4472	Units: mg/h	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Org	ganics (DRO)	46	10	50.00	0	92.0	62.7	139					
Surr: DNOP		4.5		5.000		90.4	77.4	131					
Sample ID 12	205411-001AMS	SampTy	ре: МS	3	Test	tCode: EF	PA Method	8015B: Dies	el Range (Organics			
Client ID: B	satchQC	Batch	ID: 18	67	R	tunNo: 2 6	674						
Prep Date:	5/9/2012	Analysis Da	te: 5 /	10/2012	S	SeqNo: 74	4684	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Org	ganics (DRO)	42	9.7	48.50	0	85.8	57.2	146					
Surr: DNOP		4.7 		4.850		96.2	77.4	131					
Sample ID 1:	205411-001AMSD	SampTy	pe: MS	SD	Test	Code: EF	PA Method	8015B: Dies	el Range (Organics			
Client ID: B	atchQC	Batch	ID: 18	67	R	tunNo: 26	674						
	E1012042	Analysis Da	te: 5/	10/2012	S	SegNo: 74	4685	Units: mg/Kg					
Prep Date:	5/3/2012	Analysis Do	ic. J	10,2012									
Prep Date:	5/9/2012	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
•						%REC 81.7	LowLimit 57.2	HighLimit 146	%RPD 3.10	RPDLimit 26.7	Qual		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205341

16-May-12

Client:

Blagg Engineering

Project:

GCU #145E

Sample ID MB-1870	Samp1	ype: ME	BLK	TestCode: EPA Method 8015B: Gasoline Range										
Client ID: PBS	Batcl	Batch ID: 1870 RunNo: 2706												
Prep Date: 5/9/2012	Analysis [Date: 5/	10/2012	9	SeqNo: 7	5310	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val %REC LowLimit			HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	ND	5.0												
Surr: BFB	1,000		1,000		102	69.7	121							
Sample ID LCS-1870	TestCode: EPA Method 8015B: Gasoline Range													

Sample ID LCS-1870	SampTy	S	Tes	8015B: Gasc	line Rang	е					
Client ID: LCSS	Batch I	Batch ID: 1870 RunNo: 2706									
Prep Date: 5/9/2012	Analysis Date: 5/10/2012 SeqNo: 75311 U				Units: mg/Kg						
Analyte	Result	PQL_	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	98.5	133				
Surr: BFB	1,100		1,000		108	69.7	121				

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

I Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205341

16-May-12

Client:
D

Blagg Engineering

Project:

GCU #145E

Sample ID MB-1870 Client ID: PBS	·	Type: M E h ID: 18			tCode: El					
Prep Date: 5/9/2012	Analysis [RunNo: 2706 SeqNo: 75373			Units: mg/h			
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	0.93		1.000		92.7	80	120		_	
Sample ID LCS-1870 SampType: LCS			s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 1870			RunNo: 2706						
	A l	· -						_		

Sample 10 LCS-18/0	Sampi	ype: LC	5	res	PA Method	8021B: Vola	llies					
Client ID: LCSS	Batcl	h ID: 18	70	F	RunNo: 2							
Prep Date: 5/9/2012	Analysis D	Date: 5/	10/2012	SeqNo: 75374			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.90	0.050	1.000	0	89.7	83.3	107					
Toluene	0.93	0.050	1.000	0	93.3	74.3	115					
Ethylbenzene	0.93	0.050	1.000	0	92.9	80.9	122					
Xylenes, Total	2.8	0.10 3.000 0 92.4 85				85.2	123					
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120					

Sample ID 1205412-001AM	S Samp	Гуре: М	6	Tes	PA Method	8021B: Vola	tiles			
Client ID: BatchQC	Batc	Batch ID: 1870 RunNo: 2706								
Prep Date: 5/9/2012	Analysis [Date: 5/	11/2012	SeqNo: 75381 SPK Ref Val %REC LowLimit			Units: mg/K	ίg		
Analyte	Result	PQL	SPK value				HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.049	0.9843	0	90.0	67.2	113			
Toluene	0.93	0.049	0.9843	0	94.9	62.1	116			
Ethylbenzene	0.91	0.049	0.9843	0	92.8	67.9	127			
Xylenes, Total	2.7	0.098	2.953	0 92.8 60.6			134			
Surr: 4-Bromofluorobenzene	0.96		0.9843		97.9	80	120			

Sample ID 1205412-001AM	SD SampT	ype: MS	SD	Tes						
Client ID: BatchQC	F	RunNo: 2	706							
Prep Date: 5/9/2012	SeqNo: 75382 Units: mg/Kg									
Analyte Result PQL SPK value SPK Re				SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	0.9970	0	92.9	67.2	113	4.38	14.3	
Toluene	0.96	0.050	0.9970	0	96.6	62.1	116	3.04	15.9	
Ethylbenzene	0.97	0.050	0.9970	0	97.4	67.9	127	6.06	14.4	
Xylenes, Total	3.0	0.10	2.991	0	99.2	60.6	134	7.94	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9970		99.5	80	120	0	0	

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting LimitRL Reporting Detection Limit
- Page 8 of 8



2301 2017 Onmenia Analysis Educatory 4901 Hawkins NE Albuguergue, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1205341 Received by/date: 5/8/2012 10:00:00 AM Logged By: Michelle Garcia Mirell Come Completed By: 5/8/2012 11:36:05 AM Michelle Garcia Reviewed By: Chain of Custody Yes 🗌 No 🗍 Not Present 1 Were seals intact? Yes 🗸 No 🗌 2. Is Chain of Custody complete? Not Present 3. How was the sample delivered? Courier Log In Yes 🗹 No 🗌 NA 🗌 4 Coolers are present? (see 19. for cooler specific information) Yes 🗸 No 🗌 NA 🗌 5. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA \square 6. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗌 7. Sample(s) in proper container(s)? Yes 🗸 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗌 9. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes No V 10. Was preservative added to bottles? Yes 🗌 No 🔲 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes No 🗹 12. Were any sample containers received broken? # of preserved Yes V No 13 Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗌 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Yes 🔽 No 🗌 Adjusted? 15. Is it clear what analyses were requested? Yes 🗹 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes D No D NA 🗹 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: for NV HEAL#2 collection date 05/07/12 HEAL#3 collection date 05/07/12 18. Additional remarks: 19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.0 Good Yes

C	Chain-or-Custody Record				ıme:		Ι.			2	4 A	I E	F	NI L	e e			ME	: MI:	TA	
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush_		ן ר		Ħ									R			
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		BLOOM	FIELD, NM 87413	Project #:			1				45-3				505	•					
Phone #:		(505) 63	32-1199	1				100	and the last two												
email or F	ax#:			Project Manag	ger:					A					. e						
QA/QC Pa	-		Level 4 (Full Validation)		NELSON V	ELEZ	WB's (8021B)	+ TPH (Gas only)	(Gas/Diesel)					PO4, SO4)	B's						
Accredita		······································		Sampler:	NELSON VI	ELEZ gnv	┿	(Gas	Gas/					02,	22 PC				.		nple
□ NELAF) 	□ Other		On Ice:	X Yes	□ No	1 🖁	HE	8015B	418.1)	4.1)	Ŧ		3, N	/ 808		(s sai
□ EDD (Гуре)			Sample Temperature:		l	+	380	d 41	d 50	r PA	als	I, NC	des		VOA	0.0		ای	osite	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205341	BTEX +-WITE	BTEX + MTBE	TPH Method	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2,	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample
5/3/12	0925	SOIL	5PC-TB @ 5' (45 BGT)	4 oz 2	Cool	-001	V		٧	٧								V			٧
5/7/12	0950	SOIL	HA - NWC @ 2.5' (45 BGT)	4 oz 1	Cool	-002	V		٧			*********						V		V	
																		\Box			
5/8/12	1052	SOIL	TH @ 4' (45 BGT)	4 oz 1	Cool	-003			٧											V	
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Date:	Time:	Relinquished by:		Received by:	<u> </u>	Date Time	Remarks: TPH (8015B) - GRO & DRO ONLY.														
5/7/1Z	1415	TIM	ln V f	Mustre	. Waller	5/7/12 1415	•				O BP		ust 1	Farm	ingt	nn N	IM 9	7401			
Date:	Time:	Relinquish		Received by:	0 -	Date Time									-						
17/12	1838 Month Waller		Whilly toring NS/18/12 11000			Work Order: N1485530 Paykey: ZSCHWLLBGT															



