<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Alternative Method:

#### 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 CEIVED
Type of action:  Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production CompanyOGRID #:778
Address:200 Energy Court, Farmington, NM 87401
Facility or well name:Florance 117E
API Number:3004524850OCD Permit Number:
U/L or Qtr/QtrC         Section35 Township29N Range9W County:San Juan
Center of Proposed Design: Latitude36.68489
Surface Owner: 🛮 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment
2.     Pit: Subsection F, G or J of 19.15.17.11 NMAC  Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
∑ Below-grade tank: Subsection I of 19.15.17.11 NMAC        Tank A
Volume:95.0bbl 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; side walls not visible
Liner type: Thicknessmil

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

· · · · · · · · · · · · · · · · · · ·	
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,
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.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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	☐ Yes ☐ No
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of	
initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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 document of the subsection of the following items must be 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  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:	
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 do attached.	cuments are
<ul> <li>□ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ A List of wells with approved application for permit to drill associated with the pit.</li> <li>□ 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</li> <li>□ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>□ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> </ul>	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API 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 19.15.17.19 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	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 Flank Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial  Alternative Closure Method	uid Management Pit
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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	attached to the
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

Form C-144 Oil Conservation Division Page 4 of 6

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  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 cann 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	11 NMAC 15.17.11 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 believed.  Name (Brint):  Title:	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 3/2  Title: OCD Permit Number:	4/205
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC	
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
☐ Closure Completion Date:4/25/2012_	
Closure Method:  Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-lo If different from approved plan, please explain.	oop systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation	dicate, by a check

22.	
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: 1986 Peace	Date:February 23, 2015
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

#### Florance 117E API No. 3004524850 Unit Letter C, Section 35, T29N, R9W

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
	95 bbl BGT	(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	ND
TPH	US EPA Method SW-846 418.1	100	ND
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 TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
   Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

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 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.

			Rele	ease Notific	catioi	n and Co	orrective A	ection					
						OPERA'	ГOR	Г	7 Initia	al Report	$\boxtimes$	Final Repor	
Name of Co	ompany: B	P				Contact: Jeff Peace							
		Court, Farmi	ngton, N	M 87401		Telephone No.: 505-326-9479							
Facility Nar						Facility Type: Natural gas well							
Surface Ow	ner: Feder	al		Mineral (	Owner:	ner: Federal API No. 30					350		
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We	est Line	County: Sa	an Juan		
С	35	29N	9W	1,780	North		990	East					
		Lati	tude_36	6.68489		Longitud	e 107.74634						
				NAT	TURE	OF REL	EASE						
Type of Rele	ase: none			11723	CICL		Release: N/A	,	Volume R	Recovered: N	J/A		
		v grade tank –	95 bbl				lour of Occurrence			Hour of Dis			
Was Immedia						If YES, To			o dire dire	1001 01 1010			
			No 🛛 Not R	equired									
By Whom?						Date and H	lour						
Was a Water	course Read	ched?					lume Impacting	the Water	course.				
			No										
If a Watercou	irse was Im	pacted, Descri	be Fully.*										
		r											
				Taken.* Sampli					removal t	o ensure no	soil im	pacts from	
the BG1. So	ii alialysis i	esuited in TPT	1, BIEA a	and chloride belo	w standa	ards. Analys	is results are attac	cned.					
												*	
				en.* BGT was re	moved a	and the area u	nderneath the BC	GT was san	npled. Th	ne area unde	r the Bo	GT was	
backfilled and	d compacte	d and is still w	ithin the a	ctive well area.									
		8											
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u	ınderstand	that purs	uant to NMO	OCD ru	les and	
				d/or file certain r									
				e of a C-141 repo									
				investigate and r tance of a C-141									
		vs and/or regu		tailee of a C-141	report di	oes not renev	e the operator of	responsibi	ility for CC	mphance w	illi aliy	oulei	
	. 0	^					OIL CON	SERVA	TION	DIVISIO	N		
0	all b	1 0					012 0011	DELLTI	111011	21,1010	1		
Signature:	490 P	200											
Printed Name	Leff Peace	s				Approved by	Environmental S	pecialist:					
1 IIIICU I VAIIIC	. Join I cace	*											
Title: Field E	nvironment	al Coordinator	•			Approval Dat	e:	Ex	piration I	Date:			
		00 01				G 11:1							
E-mail Addre	ss: peace.je	ttrey@bp.con	1			Conditions of	Approval:			Attached			
Date: Februa	rv 23 2015		Phone	: 505-326-9479									

<sup>\*</sup> Attach Additional Sheets If Necessary

CLIENT: BP	P.O. BOX 87, BLO	NEERING, INC. OMFIELD, NM 87413 332-1199	API #: 3004524850  TANK ID (if applicble): A
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	EASE INVESTIGATION / OTHER:	PAGE #: <b>1</b> of <b>1</b>
SITE INFORMATION QUAD/UNIT: H SEC: 35 TWP:		# 117E M CNTY: SJ ST: NI	DATE STARTED: 04/16/12  DATE FINISHED:
1/4 -1/4/FOOTAGE: 1,780'N / 990 LEASE#: SF080247	'E SE/NE LEASE TYPE: PROD. FORMATION: FT/CHA CONTE	FEDERAL STATE / FEE / INDIAN ELKHORN RACTOR: MBF - C. DAVIS	ENVIRONMENTAL SPECIALIST(S): JCB
, ,	GPS COORD.: 36.684	<b>489 X 107.74634</b> DISTAN	598 GL ELEV.: 5,665' ICE/BEARING FROM WH.: 117', N49W
3)	GPS COORD.:		ICE/BEARING FROM W.H.:  ICE/BEARING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB		OVM READING
1) SAMPLE ID: 95 BGT 5-pt. @	25' SAMPLE DATE: 04/16/12	SAMPLETIME: 1355 LAB ANALYSIS: 41	8.1/8015B/8021/B/300.0 (CI) 0.0
	SAMPLE DATE:		
	SAMPLE DATE:SAMPLE DATE:		
SOIL DESCRIPTION		SILT / SILTY CLAY / CLAY / GRAVEL	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST MOIST / WI SAMPLE TYPE: GRAB (COMPOSITE) # OF PTS. DISCOLORATION/STAINING OBSERVED	DOSE FIRM / DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED  5		ASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC SOFT / FIRM / STIFF / VERY STIFF / HARD EXPLANATION -
ANY AREAS DISPLAYING WETNESS: YES NO ADDITIONAL COMMENTS: NO APPARE		VED FROM BGT.	
	NA ft. X NA ft.  EAREST WATER SOURCE: >1,000' NE.		N ESTIMATION (Cubic Yards) : NA  NMOCD TPH CLOSURE STD: 100 ppm
FENCE → PB:	BERM  X X X X X X X X X X X X X X X X X X X	PLOT PLAN circle: attached	OWN CALIB. READ. = 52.3 ppm RF = 0.52 OWN CALIB. GAS = 100 ppm DATE: 04/16/12  MISCELL. NOTES WO - N1540920 PO - 77302 PK - ZSCHWLLBGT
	KER	POINT DESIGNATION; R.W. = RETAINING WALL;	Permit Date: 06/14/10 OCD Appr. Date: 02/28/12  Tank ID A BGT Sidewalls Visible: Y / N / NA BGT Sidewalls Visible: Y / N / NA Magnetic declination: 10° E

#### **Analytical Report**

Lab Order 1204711

Date Reported: 4/25/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: 95 BGT 5-pt@5'

Project: Florance 117E

Collection Date: 4/16/2012 1:55:00 PM

Lab ID: 1204711-001

Matrix: SOIL

Received Date: 4/18/2012 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	4/19/2012 9:48:18 AM
Surr: DNOP	87.1	77.4-131	%REC	1	4/19/2012 9:48:18 AM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/21/2012 4:37:04 AM
Surr: BFB	102	69.7-121	%REC	1	4/21/2012 4:37:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	4/21/2012 4:37:04 AM
Toluene	ND	0.048	mg/Kg	1	4/21/2012 4:37:04 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/21/2012 4:37:04 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/21/2012 4:37:04 AM
Surr: 4-Bromofluorobenzene	94.1	80-120	%REC	1	4/21/2012 4:37:04 AM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	4/19/2012 9:44:57 AM
EPA METHOD 418.1: TPH					Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/19/2012

#### Qualifiers:

- \*/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

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

**RPDLimit** 

1204711

25-Apr-12

Qual

Client:

Blagg Engineering

Project:

Florance 117E

Sample ID LCS-1607

SampType: LCS

TestCode: EPA Method 300.0: Anions

LowLimit

90

Client ID:

LCSS

Batch ID: 1607

RunNo: 2260

Prep Date: 4/19/2012

Result

Result

19

19

14

SPK value SPK Ref Val

15.00

15.00

15.00

Analysis Date: 4/19/2012

PQL

1.5

SeqNo: 62502

%REC

94.0

Units: mg/Kg

110

HighLimit

Analyte Chloride

Sample ID 1204711-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID:

95 BGT 5-pt@5'

Batch ID: 1607

RunNo: 2260

LowLimit

74.6

118

Prep Date:

4/19/2012

SeqNo: 62504

83.1

Analysis Date: 4/19/2012

%REC

Units: mg/Kg

Analyte

SPK value SPK Ref Val PQL

7.5

HighLimit

**RPDLimit** Qual

Chloride

Sample ID 1204711-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID:

95 BGT 5-pt@5'

Batch ID: 1607

RunNo: 2260

118

Prep Date:

4/19/2012

Analysis Date: 4/19/2012

SeqNo: 62505

Units: mg/Kg

HighLimit LowLimit %RPD **RPDLimit** 

%RPD

%RPD

Analyte Chloride

Result PQL

7.5

SPK value SPK Ref Val 6.129

6.129

%REC 83.4

74.6

0.263

20

Qual

Qualifiers:

R

Value exceeds Maximum Contaminant Level. \*/X

Value above quantitation range E

Analyte detected below quantitation limits J RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1204711

25-Apr-12

Client:

Blagg Engineering

Project:

Florance 117E

Sample ID MB-1589

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: **PBS**  Batch ID: 1589

RunNo: 2222

Prep Date: 4/18/2012 Analysis Date: 4/19/2012

SeqNo: 61630

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

Petroleum Hydrocarbons, TR

ND 20

Sample ID LCS-1589

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS Prep Date: 4/18/2012

Batch ID: 1589 Analysis Date: 4/19/2012

100

Result

RunNo: 2222

Units: mg/Kg

Analyte

Result PQL

20

20

SeqNo: 61631 SPK value SPK Ref Val %REC

LowLimit 87.8

HighLimit %RPD

%RPD

**RPDLimit** 

**RPDLimit** 

Qual

Qual

Petroleum Hydrocarbons, TR Sample ID LCSD-1589

SampType: LCSD

TestCode: EPA Method 418.1: TPH

RunNo: 2222

102

Prep Date:

Client ID: LCSS02 4/18/2012

Batch ID: 1589 Analysis Date: 4/19/2012

SeqNo: 61632

Units: mg/Kg

2.69

**RPDLimit** 

Analyte Petroleum Hydrocarbons, TR Result

100

SPK value SPK Ref Val

100.0

100.0

%REC 0 99.8

LowLimit 87.8 HighLimit %RPD 115

8.04

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J

Н

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 3 of 6

RPD outside accepted recovery limits

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1204711

25-Apr-12

Client:

Blagg Engineering

Project:	Florance	117E									
Sample ID	MB-1592	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8015B: Dies	sel Range	Organics	
Client ID:	PBS	Batch ID: 1592			F	RunNo: 2225					
Prep Date:	4/18/2012	Analysis D	ate: 4	/19/2012	5	SeqNo: 6	1672	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10								
Surr: DNOP		9.8		10.00		97.8	77.4	131			
Sample ID	LCS-1592	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Dies	sel Range (	Organics	
Client ID:	LCSS	Batch	ID: <b>15</b>	92	F	RunNo: 2	225				
Prep Date:	4/18/2012	Analysis D	ate: 4/	19/2012	5	SeqNo: 6	1764	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	48	10	50.00	0	96.8	62.7	139			
Surr: DNOP		4.4		5.000		87.6	77.4	131			
Sample ID	1204707-001AMS	SampT	уре: М	3	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	ID: <b>15</b>	92	F	RunNo: 2	225				
Prep Date:	4/18/2012	Analysis D	ate: 4/	19/2012	5	SeqNo: 6	2035	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	41	9.8	48.97	0	84.7	57.2	146			
Surr: DNOP		4.4		4.897		89.8	77.4	131			
Sample ID	1204707-001AMS	) SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	ID: <b>15</b>	92	F	RunNo: 2	225			,	
Prep Date:	4/18/2012	Analysis D	ate: 4/	19/2012	S	SeqNo: 6	2091	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	42	10	50.86	0	83.1	57.2	146	1.96	26.7	
Surr: DNOP		4.6		5.086		90.0	77.4	131	0	0	

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 4 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1204711

25-Apr-12

Client:

Blagg Engineering

Project:

Florance 117E

Project: Florance	117E								
Sample ID MB-1584	SampType: MB	BLK	Tes	tCode: EF	A Method	8015B: Gaso	oline Rang	e	
Client ID: PBS	Batch ID: 158	Batch ID: 1584			RunNo: 2242				
Prep Date: 4/18/2012	Analysis Date: 4/1	19/2012	S	SeqNo: 62	2626	Units: mg/k	<b>(</b> g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 980	1,000		98.3	69.7	121			
Sample ID LCS-1584	SampType: LC	S	Test	tCode: EP	A Method	8015B: Gaso	oline Rang	е	
Client ID: LCSS	Batch ID: 158	34	R	RunNo: 22	242				4
Prep Date: 4/18/2012	Analysis Date: 4/1	19/2012	S	SeqNo: 62	2627	Units: mg/h	<b>(</b> g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28 5.0	25.00	0	113	98.5	133			
Surr: BFB	1,100	1,000		105	69.7	121			
Sample ID 1204707-001AMS	SampType: MS	1	Test	Code: EP	A Method	8015B: Gaso	oline Rang	е	
Client ID: BatchQC	Batch ID: 158	34	R	tunNo: 22	269				
Prep Date: 4/18/2012	Analysis Date: 4/2	20/2012	S	SeqNo: 63	3853	Units: mg/h	<b>(</b> g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31 5.0	24.83	0	123	85.4	147			
Surr: BFB	1,100	993.0		109	69.7	121			
Sample ID 1204707-001AMS	D SampType: MS	D	Test	Code: EP	A Method	8015B: Gaso	oline Rang	е	
Client ID: BatchQC	Batch ID: 158	34	R	tunNo: 22	269				
Prep Date: 4/18/2012	Analysis Date: 4/2	20/2012	S	SeqNo: 63	8854	Units: mg/h	<b>(</b> g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30 4.8	24.13	0	125	85.4	147	1.16	19.2	
Surr: BFB	1,100	965.3		110	69.7	121	0	0	

#### Qualifiers:

\*/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 Limit

RL Reporting Detection Limit

Page 5 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1204711

25-Apr-12

Cl	ient:	
-		

Blagg Engineering

Project:	Florance	_											
Sample ID	MB-1584	B-1584 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batcl	n ID: 15	84	F	RunNo: 2	242						
Prep Date:	4/18/2012	Analysis Date: 4/19/2012			8	SeqNo: 6	2645	Units: mg/h	(g				
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-Bron	nofluorobenzene	0.92		1.000		91.7	80	120					
Sample ID	LCS-1584	SampT	ype: LC	s	Tes	tCode: El							
Client ID:	LCSS	Batch	n ID: 15	84	F	RunNo: 2	242						
Prep Date:	4/18/2012	Analysis D	Date: 4/	19/2012	S	SeqNo: <b>62646</b>			(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual		
Benzene		0.95	0.050	1.000	0	95.1	83.3	107					
Toluene		0.98	0.050	1.000	0	98.3	74.3	115					
Ethylbenzene		0.96	0.050	1.000	0	95.9	80.9	122					
Xylenes, Total		2.9	0.10	3.000	0	96.1	85.2	123					
Surr: 4-Bron	nofluorobenzene	0.95		1.000		94.7	80	120					
Sample ID	1204584-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID:	BatchQC	Batch	n ID: 15	84	F								
Prep Date:	4/18/2012	Analysis D	Date: 4/	20/2012	8	SeqNo: 6	2650	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual		
Benzene		8.0	5.1	10.10	0	78.7	67.2	113					
Toluene		9.1	5.1	10.10	2.004	69.9	62.1	116					
Ethylbenzene		10	5.1	10.10	2.712	75.3	67.9	127					
Xylenes, Total		35	20	30.30	11.33	79.6	60.6	134					
Surr: 4-Brom	nofluorobenzene	200		202.0		98.6	80	120					
Sample ID 1204584-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles													
Client ID:	BatchQC	F	RunNo: 2										
Prep Date:	4/18/2012	Analysis Date: 4/20/2012			SeqNo: <b>62651</b>			Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		7.3	5.0	10.00	0	72.6	67.2	113	9.06	14.3			
Toluene		8.4	5.0	10.00	2.004	64.2	62.1	116	7.35	15.9			
Ethylbenzene		10	5.0	10.00	2.712	77.3	67.9	127	1.24	14.4			
,													
Xylenes, Total		37	20	30.00	11.33	86.7	60.6	134	5.19	12.6			

#### Qualifiers:

\*/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 Limit

RL Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

### Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number: 1204711 Received by/date: 5 Logged By: **Ashley Gallegos** 4/18/2012 10:00:00 AM Ashley Gallegos Completed By: 4/18/2012 10:35:03 AM Reviewed By: Chain of Custody Yes No Not Present ✓ 1. Were seals intact? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log in Yes 🗸 No 🗌 NA 🗌 4 Coolers are present? (see 19. for cooler specific information) Yes V No 5. Was an attempt made to cool the samples? NA . Yes V No NA 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes 🗸 No 🗌 8 Sufficient sample volume for indicated test(s)? Yes V No 9 Are samples (except VOA and ONG) properly preserved? Yes 🗌 No 🗸 NA 🗌 10. Was preservative added to bottles? ☐ No ☐ No VOA Vials ✔ 11. VOA vials have zero headspace? □ 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 V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? Yes V No 15 Is it clear what analyses were requested? Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by Special Handling (if applicable) Yes No No NA 🗸 17. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.0 Good Yes

Chain-of-Custody Record				Turn-Around Time:  Standard Rush  Project Name:  FLORANCE 117E									_						at No. 10 0000		
Client: BLAGG EN GINEERING  BP AMERICA  Mailing Address: P.O. Box 87			HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com											•							
BLOOMFIELD, NM 87413 Phone #: 505-632-1199			Project #:				4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975 Fax 505-345-4107  Analysis Request														
email or Fax#:  QA/QC Package:  \$\tilde{A}\$ (Full Validation)				Project Manager:  J. B.A.E.				Gas only)	(Gas/D					CHARGE STREET	DESCRIPTION OF THE PERSON OF T	les					
Accreditation				Sampler: J B Asc. On fee				BE + TPH (Gas		od 418.1)	d 504.1)	or PAH)	tals	I,NO <sub>3</sub> ,NO <sub>2</sub> ,F	ides / 8082	8	-VOA)	SIDE			(V or N)
Date	Time	Matrix	Sample Request ID			HEAL NO	BTEX ++	BTEX + MTBE	TPH Method	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLORENDE			Air Bubbles
4/16/12	1355	SOIL	95 BGT 5-pt @ 5'	402 X	COOL	-001	X		X	X								X			
																6					
																				_	
																				-	
Date:	Time:	Relinquishe		Received by:	, ,	Date Time	Ren	narks	5:	6	Re	7	DR	0	01	1 8	201	5			
	lle19	Mrs	M Seyy  set by:  United to Hall Environmental may be subc	Received by:	Wheles 04		Z	eff	£ }	rea	ce		مط الله	alaaat				1. 45			



