A.
1
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

3

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

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								
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.								
Deperator: BP America Production Company OGRID #: 778								
Address: 200 Energy Court, Farmington, NM 87401								
Facility or well name: STEWART LS 006								
API Number:       3004509207       OCD Permit Number:       0 STRICT         U/L or Qtr/Qtr       H       Section       28       Township       30N       Range       10W       County:       San Juan								
Center of Proposed Design: Latitude 36.78590 Longitude -107.88422 NAD83								
Surface Owner: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment								
Pit:       Subsection F, G or J of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         Multi-Well Fluid Management       Low Chloride Drilling Fluid       yes       no         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other								
3.								
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A								
Volume: 95 bbl Type of fluid: Produced Water								
Steel         Secondary containment with leak detection       Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other         Single wall/ Single bottom; sidewalls visible         Liner type:       Thickness       mil								
4.								
Alternative Method:								
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li></ul>								



	<ul> <li>Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)</li> <li>Screen Netting Other</li> <li>Monthly inspections (If netting or screening is not physically feasible)</li> </ul>					
	<ul> <li>7.</li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>					
	<ul> <li>8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li><i>Please check a box if one or more of the following is requested, if not leave blank:</i> <ul> <li>Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul> </li> </ul>					
	9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source				
	General siting					
	Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Yes No				
	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				
	<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No				
	<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	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					
	<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>						
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)						
	<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				
	Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No				
	- 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				

7 4	
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
Temporary Pit Non-low chloride drilling fluid	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 N         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.10 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:	cuments are 9 NMAC .15.17.9 NMAC
11. Multi Wall Fluid Management Pit Checklist: Subsection B of 1915 17.9 NMAC	
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.	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

12.							
Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.0 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - 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         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Errosion Control Plan         Clinatological Inspection Plan         Cosure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC							
13. Proposed Closure: 19 15 17 13 NMAC							
Proposed Closure:       19.15.17.13 NMAC         Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.         Type:       Drilling         Workover       Emergency         Cavitation       P&A         Permanent Pit       Below-grade Tank         Multi-well Fluid Management Pit         Alternative         Proposed Closure Method:       Waste Excavation and Removal         Waste Removal (Closed-loop systems only)         On-site Closure Method (Only for temporary pits and closed-loop systems)         In-place Burial       On-site Trench Burial         Alternative Closure Method							
14.							
Waste Excavation and Removal Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. <ul> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>							
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. F 19.15.17.10 NMAC for guidance.							
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA						
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ 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							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence the time of initial application.       Image: State							
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No						
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance							

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.									
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No								
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>									
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	Yes No								
<ul> <li>16.</li> <li>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.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC</li> <li>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</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)</li> <li>Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>									
17. Operator Application Certification:									
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belie	f.								
Name (Print): Title:									
Signature: Date:									
e-mail address: Telephone:									
18. OCD Approval:  Permit Application (including closure plan)  Oco Conditions (see attachment)									
OCD Representative Signature: Approval Date: 82	2018								
Title: <u>Equironmental Specialist</u> OCD Permit Number:									
<ul> <li>19.</li> <li><u>Closure Report (required within 60 days of closure completion)</u>: 19.15.17.13 NMAC</li> <li>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.</li> <li>Closure Completion Date: 5/29/2018</li> </ul>									
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 a section of the form until an approved closure plan has been obtained and the closure activities have been completed.									
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 a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	complete this								

#### **Operator Closure Certification:**

1

Signature:

22.

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Erin Garifalos

Title: Field Environmental Coordinator

erin garifalos

Date: July 19 2018

e-mail address: erin.garifalos@bpx.com

Telephone: (832) 609-7048

### BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

**BELOW-GRADE TANK CLOSURE PLAN** 

### STEWART LS 006 API No. 3004509207 Unit Letter H Section 28 T 30N R 10W

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**

4

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

#### Notice is attached.

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

#### Notice was provided and is attached.

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

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

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

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

#### The BGT was transported for recycling.

4

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	10	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.075
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	2541
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

> Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits, except TPH. The release will be addressed following the spill and release guidelines. The field report and laboratory reports are attached.

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

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 release has occurred and will be addressed following the spill and release guidelines. Attached is a laboratory report and C-141.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

Sampling results indicate a release has occurred and will be addressed following the spill and release guidelines. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

The area will be backfilled and BGT location's surface condition will be clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area will be backfilled and BGT location's surface condition will be clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area will be backfilled and BGT location's surface condition will be clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

The area will be backfilled and BGT location's surface condition will be clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area will be backfilled and BGT location's surface condition will be clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
  - a. proof of closure notification (surface owner and NMOCD)
  - b. sampling analytical reports; information required by 19.15.17 NMAC;
  - c. disposal facility name and permit number

.

1

- d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
- e. site reclamation, photo documentation.

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

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

#### Certification section of C-144 has been completed.

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised April 3, 2017

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

			Rele	ease Notifi	catio	n and Co	orrective A	ction	l			
						<b>OPERA</b>	TOR		Initia	al Report		Final Report
Name of Co	ompany BF	<sup>D</sup> America	Produc	tion Compan	у	Contact Erin Garifalos						
Address 200 Energy Court, Farmington, NM 87401						Telephone No. (832) 609-7048						
Facility Nat	Facility Name STEWART LS 006						Facility Type: Natural Gas Well					
Surface Ow	mer: Fede	eral		Mineral (	Owner:	Federal			API No	.300450	9207	7
	LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	West Line	County		
Н	28	30N	10W	1,650	Nor	rth	990	Eas	st	5	san	Juan
	Latitude 36.78590 Longitude -107.88422 NAD83											
				NAT	<b>TURE</b>	OF REL						
Type of Rele	ase:: none	9					Release: unkno			Recovered: :		
Source of Re	belo	w grade ta	nk - 95	bbl		n/a	Hour of Occurrence	e:	n/a	Hour of Dis	covery	:
Was Immedi		Given?		No 🗌 Not R	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Read		Yes 🗸	No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercou	urse was Im	pacted, Descr	ibe Fully.*	<								
Devile	CD-11	10	1.1 4	T-1 *								
Describe Cat	ise of Proble	em and Reme	dial Action	for Ch will be	lorides,	BTEX, and sed followin	ath the BGT was TPH below BGT g the spill and re	r closu	e standar	ds, except	TPH. 1	The release
		and Cleanup /		Final lat			is attached.					
regulations a public health should their o or the environ	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
	1	arel a					OIL CON	SERV	ATION	DIVISIC	)N	
Signatura	TUN g	wilfald	24					$\wedge$				
	Signature:     O       Printed Name:     Erin Garifalos   Approved by Environmental Specialist:											
		onmenta		rdinator		Approval Dat	te: 812118		Expiration 1	Date:		
		garifalos				Conditions of				Attached		
Date: July				(832) 609-70	048					Anacheu		
* Attach Addi	Attach Additional Sheets If Necessary NVF 1821439810											



BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

May 18, 2018

bb

ł

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

#### VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: STEWART LS 006 API# - 3004509207

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about May 23, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

If witnessing of the tank removal is required please contact me for a specific time (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

From:	Buckley, Farrah (CH2M HILL)
То:	Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
Cc:	jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin
Subject:	BP Pit Close Notification - STEWART LS 006
Date:	Friday, May 18, 2018 11:05:44 AM

BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

#### SENT VIA E-MAIL TO: <u>CORY.SMITH@STATE.NM.US;</u> <u>VANESSA.FIELDS@STATE.NM.US</u>

May 18, 2018

ĩ

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

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

STEWART LS 006 API# 30-45-09207 (H) Section 28 – T30N – R10W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around May 23, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan Cell: 832-609-7048

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

• •

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

CLIENT: BP	413	API #: 3004509 TANK ID (if applicble): A								
FIELD REPORT:	(circle one): BGT CONFIF	RMATION / RELEASE INVESTI	GATION / OTHER:		PAGE #:1 o	f _1_				
SITE INFORMATION	I: <u>Site Name:</u> S	TEWART LS #6			DATE STARTED: 05/2	23/18				
QUAD/UNIT: H SEC: 28 TWP:	30N RNG: 10	N PM: NM CNT	ту: <b>SJ</b> st:	NM	DATE FINISHED:					
1/4 -1/4/FOOTAGE: 1,650'N / 990		LEASE TYPE: FEDERAL	TRIKE			NZ				
LEASE #: NM03566 PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES SPECIALIST(S): NJV										
REFERENCE POINT:         Well HEAD (W.H.) GPS COORD.:         36.78604 X 107.88403         GL ELEV.:         6,262'           1)         95 BGT (SW/SB)         GPS COORD.:         36.78590 X 107.88422         DISTANCE/BEARING FROM W.H.:         77.5', S37.5W										
1) <b>93 DGT (300/3D)</b>		30.70390 × 107.				7.544				
3)	GPS COORD.:									
4)	GPS COORD.:									
SAMPLING DATA:	CHAIN OF CUSTODY REC	ORD(S) # OR LAB USED:	HALL			OVM READING				
		05/23/18 SAMPLE TIME:		YSIS: 801	5B/8021B/300.0 (CI)	(ppm) 627				
		SAMPLE TIME:	LAB ANALY							
<ul> <li>3) SAMPLE ID:</li></ul>	SAMPLE DATE: SAMPLE DATE:	SAMPLE TIME: SAMPLE TIME:	LAB ANALY							
5) SAMPLE ID:		SAMPLE TIME:	LAB ANALY	YSIS:						
SOIL DESCRIPTION	SOIL TYPE: SAND SILT	Y SAND / SILT / SILTY CLAY / C	CLAY / GRAVEL OTHE	ER BEDRO	CK (SANDSTONE)					
SOIL COLOR: MOSTLY M	ODERATE BROWN	PLASTICITY (CLAYS):			OHESIVE / MEDIUM PLASTIC / HIGH	LY PLASTIC				
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC					STIFF / VERY STIFF / HARD	CK				
MOISTURE: DRY SLIGHTLY MOIST / MOIST / WE			D. TESINO EAFLAN	ATION- DISC	JOLORED SOILS & BEDRO					
SAMPLE TYPE: GRAB COMPOSITE #		ANY AREAS DISPLA	YING WETNESS: YES	NO EXPLAN	IATION -					
DISCOLORATION/STAINING OBSERVED: YES N										
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE						ODOR				
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION -									
OTHER: <u>NMOCD OR BLM REPS. NOT PR</u> TO HARD, FRIABLE.	ESENT TO WITNESS CO	NFIRMATION SAMPLING.	GAS WELL TO BE	E PLUGGED	& ABANDONED. BEDROC	K - SOFT				
EXCAVATION DIMENSION ESTIMATION:	ft. X	ft. X	ft. EXCA	AVATION EST	IMATION (Cubic Yards) :					
	EAREST WATER SOURCE: _	>1,000' NEAREST SURFA	ACE WATER: </td <td>00' NMOC</td> <td>D TPH CLOSURE STD:1,00</td> <td>00 ppm</td>	00' NMOC	D TPH CLOSURE STD:1,00	00 ppm				
SITE SKETCH	BGT Located : off	on site PLOT P	LAN circle: att	tached OVM	CALIB. READ. = <b>100.0</b> ppr	n RF = 1.00				
		1			CALIB. GAS = <b>100</b> ppr					
		TO W.H.			12:50 am/pm DATE: 0	5/23/18				
SEPAR				1	MISCELL. NOT	ES				
GELAR					0:					
		- FENCE			EF #: P-976					
	PBGTL		BEDROCK		D: VHIXONEVB2					
	T.B. ~6' B.G.		~ 6.5 FT. B.G.		ermit date(s): 06/03	3/10				
		BERM		00	CD Appr. date(s): 04/08	8/18				
				Tan ID	ppm = parts per million					
				A	BGT Sidewalls Visible: Y					
			X - S		BGT Sidewalls Visible: Y / N					
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIC T.B. = TANK BOTTOM; PBGTL = PREMOUS BELC APPLICABLE OR NOT AVAILABLE; SW- SINGLE	OWAGRADE TANK LOCATION; SPD	= SAMPLE POINT DESIGNATION; R.V	V = RETAINING WALL; NA		BGT Sidewalls Visible: Y / Magnetic declination: 10					
NOTES: GOOGLE EARTH IMAGE			05/23/18							

Hall Er	ivironmental Analy		Date Reported: 5/29/201	8				
CLIENT: Project: Lab ID:	Blagg Engineering STEWART LS 6 1805D16-001	Matrix: So	DIL	C	Collection	Date: 5/2	C-TB @ 6' (95) 3/2018 12:35:00 PM 4/2018 7:15:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET Chloride	HOD 300.0: ANIONS	ND	30		mg/Kg	20	Analyst: 5/24/2018 10:12:18 AM	
	HOD 8015D MOD: GASOLI Range Organics (GRO) 3FB	NE RANGE 41 151	3.7 70-130		mg/Kg %Rec	1 1	Analyst: 5/24/2018 12:21:26 PM 5/24/2018 12:21:26 PM	A51509
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	Irm
	ange Organics (DRO) I Range Organics (MRO) DNOP	2500 ND 0	100 500 70-130		mg/Kg mg/Kg %Rec	10 10 10	5/24/2018 4:30:07 PM 5/24/2018 4:30:07 PM 5/24/2018 4:30:07 PM	38303 38303 38303
EPA MET	HOD 8260B: VOLATILES S	HORT LIST					Analyst	AG
Benzene Toluene Ethylben: Xylenes,	zene	ND ND ND	0.019 0.037 0.037 0.075		mg/Kg mg/Kg mg/Kg mg/Kg	1 1 1	5/24/2018 12:21:26 PM 5/24/2018 12:21:26 PM 5/24/2018 12:21:26 PM 5/24/2018 12:21:26 PM	C51509 C51509
	I-Bromofluorobenzene Foluene-d8	145 91.8	70-130 70-130		%Rec %Rec	1 1	5/24/2018 12:21:26 PM 5/24/2018 12:21:26 PM	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
<ul><li>H Holding times for preparation or analysis exceeded</li><li>ND Not Detected at the Reporting Limit</li><li>PQL Practical Quanitative Limit</li></ul>		J	Analyte detected below quantitation limits Page 1 of 5	
		Not Detected at the Reporting Limit	Р	Sample pH Not In Range
		Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805D16

## **Analytical Report**

\$

۴

C	hain-o	of-Cus	stody Record	Turn-Around T	Time:	SAME									/	20					
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush _	DAY )															
			· · · · · · · · · · · · · · · · · · ·	Project Name:	And a state of the																L I
Mailing Ad	ddress:	P.O. BO	X 87	s	TEWART LS	5 # 6		10	01 L						nme			ה 187109	0		
			FIELD, NM 87413	Project #:						)5-34					505				3		
Phone #:		(505) 63						10		5-54	43-3				Red			,,			
email or F	ax#:	(505) 05		Project Manag	ier:	101 10 101 101 101 101 101		e dete		1.1.1	300									51.5	
QA/QC Pad				1					6					504)	3's			- 300.1)			
Standa			Level 4 (Full Validation)		ERIN GARI	FALOS	(8021B)	only	MRO)			IS)		04,	PCB's			er - 3			a)
Accreditat	tion:			Sampler:	NELSON VI	ELEZ	3 (8)	(Gas	RO /	1)	1)	VISC		102,1	3082			- 300.0 / water			sample
	<b>)</b>	Other		On Ice.	- Yes	🗆 No 🦷 🕅 🏹		Hdi	0/0	418.	504.	3270		03,N	s / 8		A)	0.00			
	Type)	1		Sample Temp	erature: O_1	0.8		+ 3	(GRC	pol	pou	or §	etals	CI'N	cide	(A	i-VC	il - 3(		ele	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 853/16	BTEX + MTE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite
5/23/18	1235	SOIL	5PC - ТВ @ 🤘 ′ (95)	4 oz 1	Cool	-001	N N	B	⊥ V	F	ш	<u>a</u>	R	A	00	00	8	V	-+	0	V
1-0110	100						-		-									-	-+	-	-+
					1						_				-				+	+	$\rightarrow$
			·····						_												-+
<u> </u>									_										$\rightarrow$		$\rightarrow$
																			$\rightarrow$	$\rightarrow$	
																					T
																				1	-
																			-	+	-
																			-	-	-
Date: 5/23/18 Pate:	Time:	Relinquishe	Invf	Received by:	Walt	Date Time 5/23/14 / 630 2 Date Time			ACT:	& RE	FEREN GA	NCE #	WHEN	N APP	S THE PLICAL	BLE;		VITH C	ORRES	PON	DING '
723/15	1846	Chri	stubbelt	1 Ich		(24)18 745		eren	ce #		P - 1	976	_	uill be	aloogh	( noted	od on	the er	abilias		-

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

**Client:** Blagg Engineering **Project:** STEWART LS 6

,

1

Sample ID MB-38305	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 38305	RunNo: 51497		
Prep Date: 5/24/2018	Analysis Date: 5/24/2018	SeqNo: 1679654	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-38305	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 38305	RunNo: 51497		
Prep Date: 5/24/2018	Analysis Date: 5/24/2018	SeqNo: 1679655	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Analyte			0	

#### Qualifiers:

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

Page 2 of 5

WO#: 29-May-18

1805D16

.

-

29-May-18

Client:Blagg EnProject:STEWA	ngineering RT LS 6			
Sample ID MB-38303	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Rang	e Organics
Client ID: PBS	Batch ID: 38303	RunNo: 51500		
Prep Date: 5/24/2018	Analysis Date: 5/24/2018	SeqNo: 1678034	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 12 10.00	120 70	130	
Sample ID LCS-38303	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 38303	RunNo: 51500		
Prep Date: 5/24/2018	Analysis Date: 5/24/2018	SeqNo: 1678035	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	51 10 50.00	0 103 70	130	
Surr: DNOP	6.1 5.000	123 70	130	
Sample ID MB-38293	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Rang	e Organics
Client ID: PBS	Batch ID: 38293	RunNo: 51500		
Prep Date: 5/23/2018	Analysis Date: 5/24/2018	SeqNo: 1678871	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	12 10.00	123 70	130	
Sample ID LCS-38293	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 38293	RunNo: 51500		
Prep Date: 5/23/2018	Analysis Date: 5/24/2018	SeqNo: 1678940	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	6.0 5.000	119 70	130	

Qualifiers:

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

Page 3 of 5

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

## Client: Blagg Engineering

۲

L

Project: STEWART LS 6

Sample ID 100ng btex lcs	ex Ics SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: BatchQC	Batc	h ID: C5	1509	F	RunNo: 5	1509				
Prep Date:	Analysis E	Date: 5/	24/2018	S	SeqNo: 1	678164	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.6	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			
Sample ID rb SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS Batch ID: C51509 RunNo: 51509										
Prep Date:	Analysis D	Date: 5/	24/2018	S	eqNo: 16	678170	Units: mg/K	g		
Prep Date: Analyte		)ate: <b>5</b> / PQL		S SPK Ref Val	eqNo: 16 %REC	578170 LowLimit	Units: <b>mg/K</b> HighLimit	g %RPD	RPDLimit	Qual
Analyte	Analysis D							-	RPDLimit	Qual
Analyte Benzene	Analysis D Result	PQL						-	RPDLimit	Qual
	Analysis D Result ND	PQL 0.025						-	RPDLimit	Qual
Analyte Benzene Toluene	Analysis D Result ND ND	PQL 0.025 0.050						-	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene	Analysis D Result ND ND ND	PQL 0.025 0.050 0.050						-	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis D Result ND ND ND ND	PQL 0.025 0.050 0.050	SPK value		%REC	LowLimit	HighLimit	-	RPDLimit	Qual

Qualifiers:

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

Page 4 of 5

WO#: **1805D16** 29-May-18

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

## Client: Blagg Engineering

Project: STEWART LS 6

ŧ.

·**p**.

Prep Date:       Analysis Date:       5/24/2018       SeqNo:       1678138       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Q	)
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	)
	)
	Qual
Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.9 70 130	
Surr: BFB         480         500.0         95.0         70         130	
Sample ID     rb     SampType:     MBLK     TestCode:     EPA Method 8015D Mod: Gasoline Range	
Client ID:         PBS         Batch ID:         A51509         RunNo:         51509	
Client ID:         PBS         Batch ID:         A51509         RunNo:         51509           Prep Date:         Analysis Date:         5/24/2018         SeqNo:         1678139         Units:         mg/Kg	
Prep Date: Analysis Date: 5/24/2018 SeqNo: 1678139 Units: mg/Kg	Qual
Prep Date: Analysis Date: 5/24/2018 SeqNo: 1678139 Units: mg/Kg	Jual

#### Qualifiers:

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

Page 5 of 5

WO#: **1805D16** 

29-May-18

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: BLAGG Work O	rder Number: 1805D16		RcptNo:	1
Received By: Isaiah Ortiz 5/24/2018	7:15:00 AM	IGh		
	8:04:37 AM	n N		· `,
Reviewed By: AT 05/24/18 Labeled by 1 50		ame Am	∠ · · · · · · · · · · · · · · · · · · ·	
Chain of Custody			1	~
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?	Courier	8		ć
i an in	•	· · · ·		
Log In 3. Was an attempt made to cool the samples?	Yes 🗸	No 🗌		
4. Were all samples received at a temperature of >0° C to	6.0°C Yes 🗹	No	NA 🗌	
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
5. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No		
8. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌	
<ol> <li>VOA vials have zero headspace?</li> </ol>	Yes	No 🗌	No VOA Vials 🗹	
0. Were any sample containers received broken?	Yes	No 🗹 🔽		
			# of preserved bottles checked	
1. Does paperwork match bottle labels?	Yes 🗹	No 🗌	for pH:	2 unless noted)
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗆	Adjusted?	uniess noted)
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌		
4. Were all holding times able to be met?	Yes 🔽	No 🗌	Checked by:	~
(If no, notify customer for authorization.)			/	
pecial Handling (if applicable)				
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🔽	
Person Notified:	Date	1001001010101010100000		
By Whom:	Via: 🗌 eMail 🗌 P	hone 🗌 Fax [	In Person	÷.,
Regarding:	under an an and any one of the second second second second and a second a second second second second second s		ANT AND CARE FOR A COMPANY AND A COMPANY	
Client Instructions:	-		N. C.	

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good	Yes	and a form		
2	0.8	Good	Yes	ARA ANY		

505-326-9200 OR 505-947-9900

BP AMERICA PRODUCTION COMPANY STEWART LS 006 API 3004509207 LEASE NMNM03566 1650 FNL 990 FEL (H) SEC 28 T30N R10W SAN JUAN COUNTY ELEV 6262 LAT 36° 47' 9.708" LONG 107° 53' 2.544"

a fell stand

