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 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	
Permit of a pit or proposed alternative method	IMOCD
Modification to an existing permit/or registration	2 2 2018
Closure plan only submitted for an existing permitted or non-permitted pit, below-gra or proposed alternative method	ide tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request	st
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, groun environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regul	
Operator: BP America Production Company OGRID #: 778	
Address: 200 Energy Court, Farmington, NM 87401	
Facility or well name: BOLACK B LS 001A	
API Number: 3004526560 OCD Permit Number:	
U/L or Qtr/Qtr C Section 33 Township 28N Range 08W County: San Juan	
Center of Proposed Design: Latitude 36.62181 Longitude -107.68931 NAD83	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
2.	
Pit: Subsection F, G or J of 19.15.17.11 NMAC MAY 7 2 2018	
Temporary: Drilling Workover	
Permanent 🗌 Emergency 🗋 Cavitation 🗋 P&A 🗋 Multi-Well Fluid Management 🛛 🖉 Low Chloride Drilling Fluid 🗋 ye	es 🗌 no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W_	x D
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A	
Volume: 95 bbl Type of fluid: Produced Water	
Tank Construction material: Steel	
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
Visible sidewalls and liner Visible sidewalls only Other Single wall/ Double bottom; sidewalls visible	
Liner type: Thickness mil 🔲 HDPE 🗌 PVC 🗋 Other	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	ion of approval.
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
	A

× e⁻⁴

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)

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

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.							
General siting							
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells							
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							
 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 							
 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 							
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 							
Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map 							
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 							
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)							
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No						
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No						
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No						

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No						
Temporary Pit Non-low chloride drilling fluid							
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No						
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 							
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 							
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No						
Permanent Pit or Multi-Well Fluid Management Pit							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).							
- Topographic map; Visual inspection (certification) of the proposed site	Yes No						
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 							
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 							
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 							
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	JMAC						
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 19.15.17.11 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 	15.17.9 NMAC						
Previously Approved Design (attach copy of design) API Number: or Permit Number:							
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	cuments are						
<i>attached.</i> Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC							
A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC	.15.17.9 NMAC						
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 							
Previously Approved Design (attach copy of design) API Number: or Permit Number:							

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1 x 4 x 4						
 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, to attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC 	hat the documents are					
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 						
 Quarty Control/Quarty Assurance Construction and instantion Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 						
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan 						
 Oil Field Waste Stream Characterization Monitoring and Inspection Plan 						
 Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 						
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC						
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Mult	i-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.} <u>Waste Excavation and Removal Closure Plan Checklist</u> : (19.15.17.13 NMAC) Instructions: Each of the following items in closure plan. Please indicate, by a check mark in the box, that the documents are attached.	nust be attached to the					
 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 NM 	ИАС					
 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 						
 Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 						
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC						
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of accepta provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equival 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 ☐ NA					
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ☐ No ☐ NA					
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site						
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 exist at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	stence Yes No					
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No					
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordina	ance					
E 010 - D11	1 67					

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
- written confirmation or verification from the municipality, written approval obtained from the municipality	Yes No						
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No						
Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map							
Within a 100-year floodplain.							
- FEMA map							
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC 							
^{17.} Operator Application Certification:							
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed and be	ief.						
Name (Print): Title:							
Signature: Date:							
e-mail address: Telephone:							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)							
land							
OCD Representative Signature: Approval Date:	23/18						
OCD Representative Signature: Approval Date: Title: OCD Permit Number:	23/18						
	the closure report.						
Title: Environmental Spec OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.						

Operator Closure Certification:

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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

vin garifalos Signature:

Date: May 17, 2018

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

Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

BOLACK B LS 001A

API No. 3004526560

Unit Letter C Section 33 T 28N R 08W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

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

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

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

The BGT was transported for recycling.

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	< 0.021
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.084
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<50
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. 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.

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Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed 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 has been backfilled and a 105 bbl shallow low profile tank set atop BGT location. The area will be reclaimed with 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 has been backfilled and a 105 bbl shallow low profile tank set atop BGT location. The area will be reclaimed with 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 has been backfilled and a 105 bbl shallow low profile tank set atop BGT location. The area will be reclaimed with 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 has been backfilled and a 105 bbl shallow low profile tank set atop BGT location. The area will be reclaimed with 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 has been backfilled and a 105 bbl shallow low profile tank set atop BGT location. The area will be reclaimed with 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

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- 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.

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State of New Mexico Energy Minerals and Natural Resources

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

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

Release Notification and Corrective Action												
						OPERA	TOR		Initia	al Report		Final Report
			Contact Erin Garifalos									
				on, NM 8740			No. (832) 609-		u .			
Facility Na	meBOLA	CKBLSC	001A			Facility Typ	be: Natural Ga	as we	1			
Surface Ow	mer: Fed	eral		Mineral (Owner:	Federal			API No	.300452	6560)
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
C	33	28N	08W	1,110	Nor	th	1,850	We	st	S	San	Juan
					1							
			Latitud	e 36.62181	L	ongitude_1	07.68931	NAD	33			
				NAT	FURE	OF REL	EASE					
Type of Rele	ease:: none	Э					Release: : unkno			Recovered: :		
Source of Re	elease: belo	w grade ta	nk - 95	bbl		Date and I	Hour of Occurrence	ce:	Date and n/a	Hour of Dis	covery	:
Was Immedi						If YES, To	Whom?		n/a			
			Yes 🗸	No 🗌 Not R	equired							
By Whom?		1 10				Date and I						
Was a Water	course Read		Yes 🗸	No		If YES, V	olume Impacting t	the Wate	rcourse.			
IC - Weters	T											
If a waterco	urse was Im	pacted, Descr	The Fully.									
Describe Car	use of Probl	em and Reme	dial Action	n Taken.*		f the e e e !!		DOT		a al al al a		
							beneath the				-	
					-		ed for Chloric Field reports					
		1.01			lie Sla	inuarus. I	leiu reports	anuia	aborator	yresuits	ale	allacheu.
Describe Are	a Affected	and Cleanup	Action Tak	No actic	n nec	essary. F	inal laborate	orv an	alvsis c	letermin	ed no	C
						n is requ		,	,			
I hereby cert	ify that the	information g	iven above	is true and comp	olete to th	ne best of my	knowledge and u	inderstan	d that purs	uant to NM	OCD ru	iles and
							nd perform correc					
							arked as "Final R ion that pose a thr					
or the enviro	nment. In a	ddition, NMC	OCD accep				e the operator of					
federal, state	, or local lay	ws and/or regu	ulations.					CEDU	ATION	DIVICIO	NT.	
	15tim a	ATT: A D	-)				OIL CON	SERV	AHON	DIVISIC	<u>N</u>	
Signatura	own g	wigall	24									
Win gwilfalos Approved by Environmental Specialist:												
Printed Name	e: Erin C	aritalos										
Title: Field	d Envir	onmenta	al Coo	rdinator		Approval Da	te:	F	Expiration I	Date:		
									pirution I			
E-mail Addre		garifalos	enh.	JUIT		Conditions o	f Approval:			Attached		
Date: May	17, 2018		Phone:	(832) 609-70	048	48						

* Attach Additional Sheets If Necessary



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

March 9, 2018

bb

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: BOLACK B LS 001A API #: 3004526560

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 March 15, 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 - BOLACK B LS 001A
Date:	Friday, March 09, 2018 11:55:25 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>

March 9, 2018

4

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

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

BOLACK B LS 001A API 30-045-26560 (C) Section 33 – T28N – R08W 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 March 15, 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

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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		G ENGINEERII 37, BLOOMFIEL (505) 632-119	113	API #: 300452 TANK ID (if applicble):	26560 A			
FIELD REPORT:		PAGE #: 1	of					
SITE INFORMATION	SITE NAME: BC	DLACK B LS #	1A		DATE STARTED: 03	3/15/18		
QUAD/UNIT: C SEC: 33 TWP:	28N RNG: 8W	PM: NM CNT	r: SJ st:	NM	DATE FINISHED:			
1/4 -1/4/FOOTAGE: 1,110'N / 1,8	50'W NE/NW	LEASE TYPE: FEDERAL	STATE / FEE / I	NDIAN	ENVIRONMENTAL			
LEASE #: NM012202 PROD. FORMATION: MV CONTRACTOR: BP - J. GONZALES								
REFERENCE POINT	WELL HEAD (W.	H.) GPS COORD.:	36.62210 X 10	07.68904	GL ELEV.:	5,848'		
1) 95 BGT (SW/DB)	GPS COORD .:	36.62181 X 107.	68931	DISTANCE/BEAR	RING FROM W.H.: 131.5'	S42.5W		
2)					RING FROM W.H.:			
3)	GPS COORD.:			DISTANCE/BEAR	RING FROM W.H.:			
4)				DISTANCE/BEAR	RING FROM W.H.:			
SAMPLING DATA:	CHAIN OF CUSTODY RECOR	RD(S) # OR LAB USED:	HALL			OVM READING		
1) SAMPLE ID: 5PC - TB @ 5'		03/15/18 SAMPLE TIME:		sis: 801	5B/8021B/300.0 (CI)	(ppm) NA		
	SAMPLE DATE:							
3) SAMPLE ID:								
4) SAMPLE ID: 5) SAMPLE ID:		SAMPLE TIME: SAMPLE TIME:						
SOIL COLOR: OL COHESION (ALL OTHERS): NON COHESIVE SLIGHTL					DHESIVE / MEDIUM PLASTIC / H STIFF / VERY STIFF / HARD			
CONSISTENCY (NON COHESIVE SOILS): LC			: YES NO EXPLANA					
MOISTURE: DRY SLIGHTLY MOIST / MOIST / W		RATED						
SAMPLE TYPE: GRAB (COMPOSITE) #		ANY AREAS DISPLAY	ING WETNESS: YES	NO EXPLAN	IATION -			
DISCOLORATION/STAINING OBSERVED: YES								
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	DAND/OR OCCURRED : YES YES NO EXPLANATION -	NO EXPLANATION:		-GRADE TAN	NK TO BE SET ATOP BG	T LOCATION.		
OTHER: MMOCD OR BLM REPS. NOT PR	ESENT TO WITNESS CO	NFIRMATION SAMPLING.						
EXCAVATION DIMENSION ESTIMATION:	NA ft. X	NA ft. X NA	ft. EXCA	VATION EST	IMATION (Cubic Yards) :	NA		
DEPTH TO GROUNDWATER: <a> 	EAREST WATER SOURCE:	>1,000' NEAREST SURFA	CE WATER: <1,00	00' NMOC	D TPH CLOSURE STD:	100 ppm		
SITE SKETCH	BGT Located : off	on site PLOT PL	AN circle: att	ached OVM	Calib. Read. = NA			
		\oplus			CALIB. GAS = NA	ppm		
STEEL CONTAINMENT		W.H		N TIME:	NA am/pm DATE:	NA		
RING					MISCELL, NO	DTES		
				144	10:			
PROD.					ef #: P-959			
		COMPRESSOR			D: VHIXONEV	1		
					J#:			
	FENCE					/14/10		
PBC		< SEPARATOR				/02/18		
T.B.	~5' — (x x x)			Tan	k OVM = Organic Vapor	Meter		
В.	3. A	BERM			ppm = parts per millio BGT Sidewalls Visible:			
	\mathbf{V}		X - S		BGT Sidewalls Visible: 1			
NOTES: BGT = BELOWAGRADE TANK: E.D. = EXCAVATIO					BGT Sidewalls Visible: Y	/ N		
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI	OW-GRADE TANK LOCATION; SPD = E WALL; DW - DOUBLE WALL; SB - SI	SAMPLE POINT DESIGNATION; R.W. INGLE BOTTOM; DB - DOUBLE BOTT	! = RETAINING WALL; NA- OM.	NOT	agnetic declination:	10° E		
NOTES: GOOGLE EARTH IMAG	ERY DATE: 10/5/2016.	• ONSITE	03/15/18					

Analytical Report
Lab Order 1803932
Date Reported: 3/19/2018

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 BOLACK B LS #IA
 Collection Date: 3/15/2018 12:00:00 PM

 Lab ID:
 1803932-001
 Matrix:
 MEOH (SOIL)
 Received Date: 3/16/2018 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/16/2018 12:21:37 PM	37065
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	3/16/2018 10:24:41 AM	G49857
Surr: BFB	122	70-130	%Rec	1	3/16/2018 10:24:41 AM	G49857
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/16/2018 11:08:20 AM	37062
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/16/2018 11:08:20 AM	37062
Surr: DNOP	89.0	70-130	%Rec	1	3/16/2018 11:08:20 AM	37062
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	AG
Benzene	ND	0.021	mg/Kg	1	3/16/2018 10:24:41 AM	S49857
Toluene	ND	0.042	mg/Kg	1	3/16/2018 10:24:41 AM	S49857
Ethylbenzene	ND	0.042	mg/Kg	1	3/16/2018 10:24:41 AM	S49857
Xylenes, Total	ND	0.084	mg/Kg	1	3/16/2018 10:24:41 AM	S49857
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	3/16/2018 10:24:41 AM	S49857
Surr: Toluene-d8	102	70-130	%Rec	1	3/16/2018 10:24:41 AM	S49857

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	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	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

С	hain-o	of-Cus	tody Record	Turn-Around 1	lime.	SAME				н		F	214	/10	20	NIP		NT	- 41	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush_	DAY)			5				- + -					ATC		
				Project Name					12		ww.h									
Mailing A	ddress:	P.O. BO	X 87	BOLACK B LS # 1A			490	01 Ha		SNE							9			
		BLOOM	FIELD, NM 87413	Project #:							-3975					-410				
Phone #:		(505) 63	2.1199	1								Anal								
email or F	ax#:			Project Manag	jer:						T		-				H			
QA/QC Package: Standard Level 4 (Full Validation)				ERIN GARI	FALOS	(80218)	(yino	MRO)		5)		04,50	PCB's			er - 300.1]			-	
Accreditat	lion:			Sampler:	NELSON VI	ELEZ		Gas	101		NIS(02, P	082			water			mple
NELAP Other		On lice:	A Yes	D No 927	FIMIL	Hdl	0/0	418.	827(N IEO	5/8		A)	00.00			e sa		
EDD (Type)		Sample Temp	erature:).9-	0.71=1.2	H	36 +	(GR(poo	Do Lo	etal	CI'N	cide	(M)	1-VC	0il - 3		ole	1 v o		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 80158 (GRO / DRO / MRO)	TPH (Method 418.1)	PAH (8310 or 82705IMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PC8's	8260B (VOA)	8270 (Semi-VDA)	Chloride (soil - 300.0 ¿		Grab sample	5 pt. composite sample Air Bubbles (Y or N)
3/15/13	1200	SOIL	SPC - TB @ 5 ' (95)	4 oz 1	Cool	001	٧		V								V			V
														1						
														1						
																		-		
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										+	+	1		-	1				1	
										+	+-	1						\vdash		
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							_			-	+		1	1	1			\vdash		-
Date:/S/	Time:	Relinquishe	ad by:	Received by:	1	Date Time	Rem	arks:	-			_				ACTV	VITH C	ORRES	PON	ING VID
3 45/18	1530	2	Im f	1. Master	hale	3/15/15 1530	0	ONTA			ARIF					ON				
Date:	Time:	Relinquishe		Received by	Coursie	Date Time					NEV1									
3/15/18 18-10 Christie Walters			Ket	7. ENMARY	\$140/B 0800	Ref	eren	ce#	P	- 959	_									

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering BOLACK B LS #IA **Project:**

3			
Sample ID MB-3706	5 SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 37065	RunNo: 49860	
Prep Date: 3/16/201	8 Analysis Date: 3/16/2018	SeqNo: 1614077 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	
Chloride	ND 1.5		
Sample ID LCS-3706	S5 SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 37065	RunNo: 49860	
Prep Date: 3/16/201	8 Analysis Date: 3/16/2018	SegNo: 1614078 Units: mg/Kg	

Result %RPD PQL SPK value SPK Ref Val %REC **RPDLimit** Analyte LowLimit HighLimit Qual Chloride 14 1.5 15.00 0 94.0 90 110

Qualifiers:

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

Page 2 of 6

WO#:

1803932

19-Mar-18

Qual

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering

BOLAC	CK B LS #IA	ł						4				
7062	2 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organ											
	Batch ID: 37062 RunNo: 49											
2018	Analysis D	ate: 3/	16/2018	SeqNo: 1613300 Units				s: mg/Kg				
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
(DRO)	47	10	50.00	0	93.6	70	130					
	4.6		5.000		<mark>91.1</mark>	70	130					
062	SamnT	vne ME	RI K	Tes	tCode: FI	PA Method	8015M/D: Di	sol Rang	Organics			

Sample ID MB-37062	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 37062	RunNo: 49845						
Prep Date: 3/16/2018	Analysis Date: 3/16/2018	SeqNo: 1613301	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	9.5 10.00	95.1 70	130					
Sample ID LCS-37056	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 37056	RunNo: 49846						
Prep Date: 3/15/2018	Analysis Date: 3/16/2018	SeqNo: 1613305	Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Surr: DNOP	4.4 5.000	88.2 70	130					
Sample ID MB-37056	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 37056	RunNo: 49846						
Prep Date: 3/15/2018	Analysis Date: 3/16/2018	SeqNo: 1613306	Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Surr: DNOP	8.9 10.00	89.4 70	130					

Qualifiers:

Client:

Project:

Analyte

Surr: DNOP

Sample ID LCS-37062 Client ID: LCSS Prep Date:

Diesel Range Organics (DRO)

3/16/2018

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

WO#: 1803932

Page 3 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1803932

Page 4 of 6

19-Mar-18

Client: Blagg Engineering **Project:** BOLACK B LS #IA

.

Sample ID	100ng Ics	Samp	Type: LC	S4	Test	Code: El	PA Method	8260B: Volat	tiles Short	t List	
Client ID:	BatchQC	atchQC Batch ID: S49857 RunNo: 49857									
Prep Date:		Analysis [Date: 3/	16/2018	S	eqNo: 1	613602	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	101	80	120			
Toluene		1.0	0.050	1.000	0	103	80	120			
Ethylbenzene		0.99	0.050	1.000	0	99.2	80	120			
(ylenes, Total		2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Brom	nofluorobenzene	0.46		0.5000		91.2	70	130			
Surr: Toluen	e-d8	0.52		0.5000		104	70	130			
Sample ID	rb	Samp	Гуре: МЕ	BLK	Test	Code: EF	PA Method	8260B: Volat	iles Short	List	
Client ID:	PBS	Batcl	h ID: \$4	9857	R	unNo: 4	9857				
Prep Date:		Analysis E	Date: 3/	16/2018	S	eqNo: 1	613613	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
kylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.56		0.5000		111	70	130			
Surr: Toluen	e-d8	0.52		0.5000		105	70	130			
Sample ID	1000000 001				Teel						
	e ID 1803932-001ams SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List									Liet	
								8260B: Volat	iles Short	List	
Client ID:	1803932-001ams 5 PC - TB @ 5' (95	5) Batch	n ID: S4	9857	R	unNo: 49	9857			List	
Client ID: Prep Date:		5) Batch Analysis D	n ID: S4 Date: 3/	9857 16/2018	R	unNo: 49 eqNo: 10	9857 614685	Units: mg/K	g		Qual
Client ID: Prep Date: Analyte		i) Batch Analysis D Result	n ID: S4 Date: 3/ PQL	9857 16/2018 SPK value	R S SPK Ref Val	unNo: 49 eqNo: 10 %REC	9857 614685 LowLimit	Units: mg/K HighLimit		RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		5) Batch Analysis D Result 0.76	n ID: S4 Date: 3 / PQL 0.021	9857 16/2018 SPK value 0.8410	R SPK Ref Val 0	unNo: 49 eqNo: 10 %REC 90.9	9857 614685 LowLimit 80	Units: mg/K HighLimit 120	g		Qual
Client ID: Prep Date: Analyte Benzene Foluene		Analysis D Result 0.76 0.76	Date: 3/ PQL 0.021 0.042	9857 16/2018 SPK value 0.8410 0.8410	R S SPK Ref Val 0 0	unNo: 49 eqNo: 10 %REC 90.9 90.7	9857 514685 LowLimit 80 80	Units: mg/K HighLimit 120 120	g		Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene		Analysis D Result 0.76 0.76 0.78	Date: 3/ PQL 0.021 0.042 0.042	9857 16/2018 SPK value 0.8410 0.8410 0.8410	R S SPK Ref Val 0 0 0	unNo: 49 eqNo: 10 <u>%REC</u> 90.9 90.7 92.2	514685 LowLimit 80 80 80	Units: mg/K HighLimit 120 120 120	g		Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total	5 PC - TB @ 5' (95	 Batch Analysis E Result 0.76 0.76 0.78 2.3 	Date: 3/ PQL 0.021 0.042	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523	R S SPK Ref Val 0 0	unNo: 49 eqNo: 10 <u>%REC</u> 90.9 90.7 92.2 91.1	514685 LowLimit 80 80 80 80 80	Units: mg/K HighLimit 120 120 120 120	g		Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brom	5 PC - TB @ 5' (95	 Batcl Analysis E Result 0.76 0.76 0.78 2.3 0.41 	Date: 3/ PQL 0.021 0.042 0.042	9857 16/2018 SPK value 0.8410 0.8410 2.523 0.4205	R S SPK Ref Val 0 0 0	unNo: 49 eqNo: 10 %REC 90.9 90.7 92.2 91.1 96.9	514685 LowLimit 80 80 80 80 80 70	Units: mg/K HighLimit 120 120 120 120 130	g		Qual
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total	5 PC - TB @ 5' (95	 Batch Analysis E Result 0.76 0.76 0.78 2.3 	Date: 3/ PQL 0.021 0.042 0.042	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523	R S SPK Ref Val 0 0 0	unNo: 49 eqNo: 10 <u>%REC</u> 90.9 90.7 92.2 91.1	514685 LowLimit 80 80 80 80 80	Units: mg/K HighLimit 120 120 120 120	g		Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Surr: Toluene	5 PC - TB @ 5' (95	 Batcl Analysis E Result 0.76 0.76 0.78 2.3 0.41 0.43 	Date: 3/ PQL 0.021 0.042 0.042	9857 16/2018 SPK value 0.8410 0.8410 2.523 0.4205 0.4205	R S SPK Ref Val 0 0 0 0.01879	unNo: 49 eqNo: 10 %REC 90.9 90.7 92.2 91.1 96.9 101	29857 514685 LowLimit 80 80 80 80 70 70 70	Units: mg/K HighLimit 120 120 120 120 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Surr: Toluene Sample ID	5 PC - TB @ 5' (95 nofluorobenzene e-d8	 Batcl Analysis E Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT 	Date: 3/ PQL 0.021 0.042 0.042 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 5D4	R S SPK Ref Val 0 0 0 0.01879 Test	unNo: 49 eqNo: 10 %REC 90.9 90.7 92.2 91.1 96.9 101	2857 514685 LowLimit 80 80 80 80 80 70 70 70	Units: mg/K HighLimit 120 120 120 120 130 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Surr: Toluene Sample ID Client ID:	5 PC - TB @ 5' (95 nofluorobenzene e-d8 1803932-001amsd	 Batcl Analysis E Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT 	Date: 3/ PQL 0.021 0.042 0.042 0.042 0.044 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 0.4205 0.4205	R S SPK Ref Val 0 0 0 0.01879 Test R	unNo: 49 eqNo: 10 90.9 90.7 92.2 91.1 96.9 101 Code: EF	2857 514685 LowLimit 80 80 80 80 80 70 70 70 70 20 A Method 2857	Units: mg/K HighLimit 120 120 120 120 130 130	g %RPD iles Short	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Surr: Toluene Sample ID Client ID: Prep Date:	5 PC - TB @ 5' (95 nofluorobenzene e-d8 1803932-001amsd	 Batcl Analysis E Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT Batch 	Date: 3/ PQL 0.021 0.042 0.042 0.042 0.044 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 0.4205 5D4 9857 16/2018	R S SPK Ref Val 0 0 0 0.01879 Test R	unNo: 49 eqNo: 10 90.9 90.7 92.2 91.1 96.9 101 Code: EF unNo: 49	2857 514685 LowLimit 80 80 80 80 80 70 70 70 70 20 A Method 2857	Units: mg/K HighLimit 120 120 120 120 130 130 130 8260B: Volat	g %RPD iles Short	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Surr: Toluene Surr: Toluene Sample ID Client ID: Prep Date: Analyte	5 PC - TB @ 5' (95 nofluorobenzene e-d8 1803932-001amsd	 Batcl Analysis I Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT analysis I 	PQL 0.021 0.042 0.042 0.042 0.042 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 0.4205 5D4 9857 16/2018	R S SPK Ref Val 0 0 0 0.01879 Test R S	unNo: 49 eqNo: 10 90.9 90.7 92.2 91.1 96.9 101 Code: EF unNo: 49 eqNo: 16	2857 514685 LowLimit 80 80 80 80 70 70 20 A Method 2857 514686	Units: mg/K HighLimit 120 120 120 120 130 130 8260B: Volat Units: mg/K	g %RPD iles Short g	RPDLimit List	
Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Surr: Toluene Surr: Toluene Sample ID Client ID: Prep Date: Analyte Benzene	5 PC - TB @ 5' (95 nofluorobenzene e-d8 1803932-001amsd	 Batcl Analysis I Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT analysis I Analysis I Result 	PQL 0.021 0.042 0.042 0.042 0.042 0.042 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 0.4205 5D4 9857 16/2018 SPK value	R S SPK Ref Val 0 0 0 0.01879 Test R SPK Ref Val	unNo: 49 eqNo: 10 90.9 90.7 92.2 91.1 96.9 101 Code: EF unNo: 49 eqNo: 16 %REC	2857 514685 LowLimit 80 80 80 80 70 70 70 24 Method 2857 514686 LowLimit	Units: mg/K HighLimit 120 120 120 130 130 8260B: Volat Units: mg/K HighLimit	g %RPD iles Short g %RPD	RPDLimit List	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Surr: Toluene Sample ID	5 PC - TB @ 5' (95 nofluorobenzene e-d8 1803932-001amsd	 Batcl Analysis I Result 0.76 0.76 0.78 2.3 0.41 0.43 I SampT analysis I Analysis I Result 0.75 	PQL 0.021 0.021 0.042 0.042 0.042 0.042 0.084 0.084	9857 16/2018 SPK value 0.8410 0.8410 0.8410 2.523 0.4205 0.4205 0.4205 0.4205 0.4205 804 9857 16/2018 SPK value 0.8410	R SPK Ref Val 0 0 0 0.01879 Test R SPK Ref Val 0	unNo: 49 eqNo: 10 90.9 90.7 92.2 91.1 96.9 101 Code: EF unNo: 49 eqNo: 16 %REC 89.1	2857 514685 LowLimit 80 80 80 80 70 70 70 20 A Method 2857 514686 LowLimit 80	Units: mg/K HighLimit 120 120 120 120 130 130 8260B: Volat Units: mg/K HighLimit 120	g %RPD iles Short g %RPD 2.03	RPDLimit List RPDLimit 0	

Qualifiers:

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

QC SUMMARY REPORT

WO#:

1803932 19-Mar-18

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:BOLACK B LS #IA

Sample ID 1803932-001a	ISD4	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List			
Client ID: 5 PC - TB @	5' (95) Bato	h ID: S	49857	R	unNo: 4	9857				
Prep Date:	Analysis	Date: 3	3/16/2018	S	eqNo: 1	614686	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.41		0.4205		98.6	70	130	0	0	
Surr: Toluene-d8	0.44		0.4205		105	70	130	0	0	

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 6

QC SUMMARY REPORT

WO#:	1803932
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19-Mar-18

Hall Environmental A	nalysis	Laboratory,	Inc.
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Client: Blagg Engineering **Project:** BOLACK B LS #IA

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Sample ID 2.5ug gro lcs	SampType: L	.CS	Test	tCode: EPA Me	ethod 8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch ID: 0	649857	R	RunNo: 49857				
Prep Date:	Analysis Date:	3/16/2018	S	GeqNo: 161358	30 Units: mg/I	≺g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Low	Limit HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	0 25.00	0	94.6	70 130			
Surr: BFB	520	500.0		103	70 130			
Sample ID rb	SampType: N	IBLK	Test	tCode: EPA Me	ethod 8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch ID: 0	649857	R	unNo: 49857				
Prep Date:	Analysis Date:	3/16/2018	S	eqNo: 161358	31 Units: mg/H	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Low	Limit HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	0						
Surr: BFB	600	500.0		120	70 130			
Sample ID 2.5UG GRO LCS2	SampType: L	.CS	Test	Code: EPA Me	ethod 8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch ID: A	49857	R	unNo: 49857				
Prep Date:	Analysis Date:	3/16/2018	S	eqNo: 161453	Units: %Re	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Low	Limit HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	510	500.0		102	70 130			
Sample ID rb2	SampType: N	IBLK	Test	Code: EPA Me	ethod 8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch ID: A	49857	R	unNo: 49857				
Prep Date:	Analysis Date:	3/16/2018	S	eqNo: 161453	88 Units: %Re	с		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Low	Limit HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W
- Page 6 of 6

HALL ENVIRONMENT ANALYSIS LABORATORY	T AL TEL: 505-345	nental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 5-3975 FAX: 505-345-4107 www.hallenvironmental.com	Sample Lo	nple Log-In Check List			
Client Name: BLAGG	Work Order Nu	mber: 1803932		RcptNo: 1			
Received By: Erin Mele		OAM U	LUL.				
Completed By: Dennis S Reviewed By: 705	3/16/2018 8:22:1 3/16/18	/ AM	lan grugo				
	21 - 110	Labrile.	d Bym	N 3/14/18			
Chain of Custody			No. 🗍 Not De				
1. Is Chain of Custody com		Yes 🗹	No 🗌 Not Pr	esent 🗌			
How was the sample deli	vered?	Courier					
Log In 3. Was an attempt made to	cool the samples?	Yes 🔽	No 🗌	NA 🗌			
4. Were all samples receive	d at a temperature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌			
5. Sample(s) in proper conta	ainer(s)?	Yes 🗹	No 🗌				
6. Sufficient sample volume	for indicated test(s)?	Yes 🗹	No 🗌				
7. Are samples (except VOA	and ONG) properly preserved?	Yes 🗹	No 🗌				
8. Was preservative added t	o bottles?	Yes	No 🗹	NA 🗌			
9. VOA vials have zero head	ispace?	Yes 🗌		Vials 🔽			
10. Were any sample contain	ers received broken?	Yes 🗆	No 🗹 # of prese				
11.Does paperwork match be (Note discrepancies on ch		Yes 🗹	No bottles cf	(<2 or >12 unless noted)			
12. Are matrices correctly ide		Yes 🖌	No 🗌 🛛 Adj	usted?			
13. Is it clear what analyses w	vere requested?	Yes 🗹	No 🗌				
14. Were all holding times ab (If no, notify customer for		Yes 🗹	No Che	cked by:			
Special Handling (if ap	<u>plicable)</u>						
15. Was client notified of all of	discrepancies with this order?	Yes 🗋	No 🗌	NA 🗹			
Person Notified:	Dat	te:	Rename and a second second				
By Whom:	Via	eMail 🗌 Phone	e 🗌 Fax 🔲 In Pers	ion			
Regarding:	and the second	1. 1	and we can be a set of the set of	an and a heaper states			
Client Instructions: 16. Additional remarks:	1		·				
17. Cooler Information							
Cooler No Temp °C	Condition Seal Intact Seal No	Seal Date Sign	ned By				
1 1.2	Good Not Present		x0.01.009 IX				

Page 1 of 1

505-947-9900

BP AMERICA PRODUCTION COMPANY BOLACK B LS 001A API 3004526560 LEASE NMNM012202 1110 FNL 1850 FWL (C) SEC 33 T28N R8W San Juan County ELEV 5848 *LAT 36° 37' 19.308" LONG 107° 41' 20.508"

