District I 1625 N. Fmench 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 Form C-144 Revised April 3, 2017

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	
6303	Proposed Alternative Method Permit or Closure Plan Applicat	tion
	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 pi or proposed alternative method	
	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alter	native request
	that approval of this request does not relieve the operator of liability should operations result in pollution of surface r does approval relieve the operator of its responsibility to comply with any other applicable governmental authority	
1. Operator: BP	America Production Company OGRID #: 778	NMOCD
Address: 200	Energy Court, Farmington, NM 87401	MAR 11 PA
	name: W D HEATH A 008	4 2018
	3004508409 OCD Permit Number:	MAR 1 4 2018 DISTRICT III
Center of Propo	besed Design: Latitude 36.73010 Longitude -107.80322	NAD83
_	Englised Designi Dantade Donghade	
Permanent Lined U String-Reint	Drilling Workover Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Jnlined Liner type: Thickness mil LLDPE HDPE PVC Other forced	
3.	In tanka Subsection Lof 10, 15, 17, 11 NIMAC TANK B	
	te tank: Subsection 1 of 19.19.17.11 NMAC	
	bbl Type of fluid: Produced Water	
	containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
Visible side	ewalls and liner 🗌 Visible sidewalls only 🔳 Other Single wall/ Double bottom; sidewalls visible)
	ickness mil [] HDPE [] PVC [] Other	
4.		
Alternative		
Submittal of an	exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for	or consideration of approval.
5. Fencing: Subs	ection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
\Box Chain link, sinstitution or ch	six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent resid nurch)	lence, school, hospital,
	right, four strands of barbed wire evenly spaced between one and four feet	
Alternate. P	Please specify	

Oil Conservation Division

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• Netting: •Subsection E of 19.15.17.11 NMAC	(Applies to permanent pits and	permanent open top tanks)
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Screen Netting Other_

6.

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.

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	□ Yes □ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

Within 100 feet of a wetland. • US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.</i> 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 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 19.13 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 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:	

^{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 attached.	documents are
 Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 	
 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including 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.	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	
In-place Burial Alternative Closure Method	
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
15.	
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.	
 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 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
Form C-144 Oil Conservation Division Page 4 o	f 6

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 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.	Yes No
- FEMA map	Yes No
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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 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 cannual Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	0/18
19.	
<u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date: 3/12/2018	
20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	op systems only)
 21. <u>Closure Report Attachment Checklist:</u> Instructions: Each of the following items must be attached to the closure report. Please intermark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation 	dicate, by a check

Oil Conservation Division

Operator Closure Certification:

22.

Signature:

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: March 12, 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

W D HEATH A 008

API No. 3004508409

Unit Letter C Section 17 T 29N R 09W

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)

BP BGT Closure Plan 04-01-2010

- 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
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.026
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.11
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.

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 but is still within the operational area of the location. 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 has been backfilled but is still within the operational area of the location. 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 has been backfilled but is still within the operational area of the location. 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 has been backfilled but is still within the operational area of the location. 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 has been backfilled but is still within the operational area of the location. 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
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

BP did not meet the 60 closure completion requirement due to an error in internal tracking. 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 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Salita I C	, 14141 07505	
Release Notification	and Corrective Action	

						OPERA	ГOR		Initia	al Report		Final	Report
Name of Company BP America Production Company					n Garifalos								
				n, NM 87401			No. (832) 609-						
Facility Nar	neWDF	IEATH A C	800			Facility Typ	e: Natural Ga	as We	ell				
Surface Ow	ner: Fed	eral		Mineral C)wner:	Federal			API No	.300450	8409)	
				LOCA		N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County			
C	17	29N	09W	790	Nor	th	2,070	We	est	5	an	Ju	Ian
			Latitud	_e 36.73010	L	ongitude -1	07.80322	NAD	83				
				NAT	URE	OF REL							
Type of Relea	ase:: none)					Release: unkno			Recovered::			
Source of Re	belo	w grade ta	nk - 21	bl		Date and H	Hour of Occurrence	e:	Date and n/a	Hour of Dis	covery:		
Was Immedia		Given?		No 🗌 Not Re	equired	If YES, To	Whom?						
By Whom?						Date and H	Iour						
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No													
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*										
Describe Cau	se of Probl	em and Reme	dial Action	Taken.*	aling	of the soil	bonoath the	PCT	was do	no durin	a ron	oval	
	Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for Chlorides, BTEX, and TPH below BGT closure standards. Field reports and laboratory results are attached.												
Describe Are	a Affected	and Cleanup A	Action Tak	en.*	-		inclickeret			l et e une in			
						n is requ	inal laborato ired.	ory a	alysis c	letermin	ea no)	
regulations al public health should their o	l operators or the envir perations h iment. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptanc adequately OCD accep	d/or file certain re e of a C-141 repo investigate and re	elease no ort by the emediate	otifications and NMOCD mage contaminati	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of r	tive act eport" of eat to g	ions for rele loes not reli round water	eases which eve the oper , surface wa	may en ator of ter, hur	danger liabilit nan hea	y
		0					OIL CON	SERV	ATION	DIVISIO	N		
l	rung	wilfald	25										
						Approved by	Environmental S	necialis	t•				
Printed Name	Erin G	Garifalos				-rp.c.ou of		Millo					
Title: Field	l Enviro	onmenta	al Coor	dinator	1	Approval Dat	e:		Expiration I	Date:			
E-mail Addre	ss: erin.	garifalos	@bp.	com	(Conditions of	Approval:			Attached			
Date: March	n 12, 201	18	Phone:	(832) 609-70	048					- mained			

* Attach Additional Sheets If Necessary



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

January 5, 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: W D HEATH A 008 API #: 3004508409

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 January 10, 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)To:Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us)Cc:jeffcblagg@aol.com; blagg njv@yahoo.com; Garifalos, ErinSubject:BP Pit Close Notification - W D HEATH A 008Date:Friday, January 05, 2018 1:46:26 PM

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>

January 5, 2018

1

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

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

W D HEATH A 008 API 30-045-08409 (C) Section 17 – T29N – R09W 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 a 95bbl and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around January 10, 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

. . .



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:	P.O. BOX 87, BLC	GINEERING, INC. OOMFIELD, NM 8741 632-1199	3	API #:
FIELD REPORT:	(circle one): BGT CONFIRMATION / RE			PAGE #: 1 of 1
SITE INFORMATION QUAD/UNIT: C SEC: 17 TWP:	29N RNG: 9W PM:	NM CNTY: SJ ST:	NM	DATE STARTED: 01/11/18 DATE FINISHED:
1/4 -1/4/FOOTAGE: 790'N / 2,070 LEASE #: SF076337		E FEDERAL / STATE / FEE / INI STRIKE RACTOR: BP - J. GONZALE		ENVIRONMENTAL SPECIALIST(S): NJV
2)	GPS COORD.: 36.73	D	DISTANCE/BEAF	RING FROM W.H.: 162', N83.5E
3)	GPS COORD.:			RING FROM W.H.:
SAMPLING DATA: 1) SAMPLE ID:5PC - TB @ 6' (2)		SAMPLE TIME: 1330 LAB ANALYSIS:		5B/8021B/300.0 (CI)
2) SAMPLE ID: 3) SAMPLE ID: 4) SAMPLE ID: 5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS:		
SOIL DESCRIPTION SOIL COLOR: MODE COHESION (ALL OTHERS): NON COHESIVE (SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST (MOIST) W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES (N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: MMOCD OR BLM REPS. NOT PR	RATE BROWN PLA COHESIVE COHESIVE / HIGHLY COHESIVE DEI OSE (FIRM) DENSE / VERY DENSE HC OF PTS. 5 ANY O EXPLANATION -	STICITY (CLAYS): NON PLASTIC / SLIGHTLY NSITY (COHESIVE CLAYS & SILTS): SOI DOOR DETECTED: YES NO EXPLANATION AREAS DISPLAYING WETNESS: YES NO NO EXPLANATION -	PLASTIC / CC FT / FIRM / S ON -	
EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N		X <u>NA</u> ft. EXCAVA EAREST SURFACE WATER: >1,000'		IMATION (Cubic Yards) : <u>NA</u> D TPH CLOSURE STD: <u>5,000</u> ppm
SITE SKETCH	BGT Located : off on site	PLOT PLAN circle: attach		CALIB. READ. = <u>NA</u> ppm CALIB. GAS = <u>NA</u> ppm CALIB. GAS = <u>NA</u> ppm MISCELL. NOTES O: EF #: P-916 D: VHIXONEVB2 J #: ermit date(s): 06/14/10
⊕ Р ₩.Н.	ENCE WOODEN R.W.	_ X - S.P	OC Tani ID B	CD Appr. date(s): 12/27/17 k OVM = Organic Vapor Meter
APPLICABLE OR NOT AVAILABLE; SW - SINGLE	DW-GRADE TANK LOCATION; SPD = SAMPLE POINT WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM;	T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL H DESIGNATION; R.W. = RETAINING WALL; NA - NC DB - DOUBLE BOTTOM.	IEAD;	BGT Sidewalls Visible: Y / N agnetic declination: 10 ° E
NOTES: GOOGLE EARTH IMAGE	:RY DATE: 10/5/2016.	ONSITE: 01/11/18		

n 1 1	*					Analytical Report Lab Order 1801651	
	Hall Environmental Analysis	Labora	tory, Inc.			Date Reported: 1/15/201	8
	CLIENT: Blagg Engineering		(lient Sam	ple ID: 5P	С-ТВ@6'(21)-В	
	Project: W D Heath A 8			Collection	n Date: 1/1	1/2018 1:30:00 PM	
	Lab ID: 1801651-002	Matrix:	MEOH (SOIL)	Receive	d Date: 1/1	2/2018 8:05:00 AM	
	Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
	EPA METHOD 300.0: ANIONS					Analyst:	MRA
	Chloride	ND	30	mg/Kg	20	1/12/2018 1:43:05 PM	36001
	EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	6			Analyst:	том
	Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/12/2018 10:52:07 AM	35994
	Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2018 10:52:07 AM	35994
	Surr: DNOP	97.3	70-130	%Rec	1	1/12/2018 10:52:07 AM	35994
	EPA METHOD 8015D: GASOLINE RANGI	E				Analyst:	NSB
	Gasoline Range Organics (GRO)	ND	5.3	mg/Kg	1	1/12/2018 10:53:30 AM	35977
	Surr: BFB	88.4	15-316	%Rec	1	1/12/2018 10:53:30 AM	35977
	EPA METHOD 8021B: VOLATILES					Analyst:	NSB
	Benzene	ND	0.026	mg/Kg	1	1/12/2018 10:53:30 AM	35977
	Toluene	ND	0.053	mg/Kg	1	1/12/2018 10:53:30 AM	35977
	Ethylbenzene	ND	0.053	mg/Kg	1	1/12/2018 10:53:30 AM	35977
	Xylenes, Total	ND	0.11	mg/Kg	1	1/12/2018 10:53:30 AM	35977
	Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	1/12/2018 10:53:30 AM	35977

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
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 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

Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	Rush_	DAY				A	N	AL	Y	515	S L	A		RA			
Mailing A	ddress:	P.O. BO	X 87	w	D. HEATH	A #8		49	01 F									37109)		
-		BLOOM	FIELD, NM 87413	Project #:			1			05-34					and a	and in	-410				
Phone #:		(505) 63	2-1199									р	nal	ysis	Red	que	st				
email or F	ax#:			Project Mana	iger:		1 T		1					-	-1			(1.1)			
QA/QC Package, ☑ Standard □ Level 4 (Full Validation)		ERIN GARIFALOS			(80218)	(yino si	/ MRO			(S)		PDe, SO	PCB's			water - 300.1)		e			
Accreditat	tion;			Sampler:	NELSON VE	ELEZ	¥ (8	(Ga	ORO	1	11	NISI		1021	3082			-		Iduu	
)	C Other		On lice:	D'Yes	DNO 971	I	TPH	0/0	118.	504.	3270		03,0	15/8		(A)	0.00		esa	r N)
EDD (ype)			Sample Temp	perature: 1.2-C	2.9 (F) 03	4	+	(GR(pol	poi	Or §	etals	U,N	cide	(A)	i-VC	- II	e	osit	No
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 82705IMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PD2,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
1/11/10	1315	SOIL	SPE TRE 5 1951 A	+ 02 1	Cool	-001	*		4		10.1	-						4	-	1	-
	1012	-													-				-	-	
1/11/18	1330	SOIL	SPC - TB @ 6 (21) - B	4 02 1	Cool	-002	۷		٧									٧		٧	E
	-										1					1			+	-	
		-		1 															+	-	
Date: 1/11/18 Date:	Time: 1445 Time:	Relinquish	la y	Received by:	Jun Counter	Date Time		I narks ONT	ACT:		FEREN	RIFA	LOS	APP	LICAL	BLE;		VITH CO	ORRESPO	NDING	i VID

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 Project: W D Heath A 8

			the same of the same same in the same same in the same same in the same same same same same same same sam	
Sample ID MB-36001	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36001	RunNo: 48424		
Prep Date: 1/12/2018	Analysis Date: 1/12/2018	SeqNo: 1556526	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-36001	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 36001	RunNo: 48424		
Prep Date: 1/12/2018	Analysis Date: 1/12/2018	SeqNo: 1556527	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15.00	0 98.0 90	110	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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

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WO#: 1801651 15-Jan-18

*QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:W D Heath A 8

Sample IDLCS-35994SampType: LuClient ID:LCSSBatch ID:34Prep Date:1/12/2018Analysis Date:1AnalyteResultPQLDiesel Range Organics (DRO)4710Surr: DNOP4.5SampType:MClient ID:PBSBatch ID:34	5994 /12/2018 SPK value SPK 50.00 5.000	RunNo: 4 SeqNo: 1 Ref Val %REC 0 93.8 90.5	8390	B015M/D: Dies Units: mg/Kg HighLimit 130 130		e Organics	Qual
Prep Date: 1/12/2018 Analysis Date: 1 Analyte Result PQL Diesel Range Organics (DRO) 47 10 Surr: DNOP 4.5 Sample ID MB-35994 SampType: M	/12/2018 SPK value SPK 50.00 5.000	SeqNo: 1 Ref Val %REC 0 93.8 90.5	555260 LowLimit 70	HighLimit 130		RPDLimit	Qual
Analyte Result PQL Diesel Range Organics (DRO) 47 10 Surr: DNOP 4.5 Sample ID MB-35994 SampType: M	SPK value SPK 50.00 5.000	Ref Val %REC 0 93.8 90.5	LowLimit 70	HighLimit 130		RPDLimit	Qual
Diesel Range Organics (DRO) 47 10 Surr: DNOP 4.5 Sample ID MB-35994 SampType: M	50.00 5.000	0 93.8 90.5	70	130	%RPD	RPDLimit	Qual
Surr: DNOP 4.5 Sample ID MB-35994 SampType: M	5.000	90.5					
Sample ID MB-35994 SampType: M			70	130			
1 1	BLK	T 10 1 T					
Client ID: PBS Batch ID: 3		TestCode: E	PA Method	8015M/D: Dies	el Range	Organics	
	994	RunNo: 4	8390				
Prep Date: 1/12/2018 Analysis Date: 1	/12/2018	SeqNo: 1	555261	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 9.3	10.00	92.7	70	130			
Sample ID MB-35983 SampType: M	BLK	TestCode: E	PA Method	3015M/D: Dies	el Range	Organics	
Client ID: PBS Batch ID: 38	983	RunNo: 4	8390				
Prep Date: 1/11/2018 Analysis Date: 1	/12/2018	SeqNo: 1	555290	Units: %Rec			
Analysis Date.							
Analyte Result PQL	SPK value SPK	Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	SPK value SPK 10.00	Ref Val %REC 96.8	LowLimit 70		%RPD	RPDLimit	Qual
Analyte Result PQL	10.00	96.8	70	HighLimit			Qual
Analyte Result PQL Surr: DNOP 9.7	10.00	96.8	70 PA Method 8	HighLimit 130			Qual
Analyte Result PQL Surr: DNOP 9.7 Sample ID LCS-35983 SampType: L0	10.00 CS 1983	96.8 TestCode: El	70 PA Method 8 8390	HighLimit 130			Qual
Analyte Result PQL Surr: DNOP 9.7 Sample ID LCS-35983 SampType: L0 Client ID: LCSS Batch ID: 35	10.00 CS 1983 /12/2018	96.8 TestCode: El RunNo: 4	70 PA Method 8 8390	HighLimit 130 3015M/D: Dies Units: %Rec			Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- RL Reporting Detection Limit
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WO#: 1801651

15-Jan-18

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:W D Heath A 8

Sample ID MB-35977	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 35	977	F	RunNo: 4	8400				
Prep Date: 1/11/2018	Analysis Da	ate: 1/	12/2018	S	SeqNo: 1	556740	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.3	15	316			
Sample ID LCS-35977	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID LCS-35977 Client ID: LCSS		/pe: LC			tCode: El RunNo: 4		8015D: Gaso	oline Rang	9	
		ID: 35	977	F		8400	8015D: Gaso Units: mg/K	5	e	
Client ID: LCSS	Batch	ID: 35	977 12/2018	F	RunNo: 4	8400		5	e RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018	Batch Analysis Da	ID: 35 9 ate: 1 /	977 12/2018	F	RunNo: 4 SeqNo: 1	8400 556741	Units: mg/K	g		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
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- W Sample container temperature is out of limit as specified

WO#: 1801651 15-Jan-18

Page 5 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: W D Heath A 8

Sample ID MB-35977	SampT	ype: ME	BLK	Tes	Code: El					
Client ID: PBS	Batcl	n ID: 35	977	F	unNo: 4					
Prep Date: 1/11/2018	Analysis Date: 1/12/2018			S	eqNo: 1	556764	Units: mg/Kg			
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								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			
Sample ID LCS-35977	0			T						
Cumple 10 100-30311	Sampi	ype: LC	S	les	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS		ype: LC 1 ID: 35			unNo: 4		8021B: Volat	iles		
		n ID: 35	977	R		8400	Units: mg/K			
Client ID: LCSS	Batch	n ID: 35	977 12/2018	R	unNo: 4	8400			RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018 Analyte	Batcl Analysis D	n ID: 35 Date: 1/	977 12/2018	R	unNo: 4 eqNo: 1	8400 556765	Units: mg/K	g	RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018	Batcl Analysis D Result	n ID: 35 Date: 1/ PQL	977 12/2018 SPK value	R S SPK Ref Val	unNo: 4 eqNo: 1 %REC	8400 556765 LowLimit	Units: mg/K HighLimit	g	RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018 Analyte Benzene	Batch Analysis D Result 0.99	n ID: 35 Date: 1 / PQL 0.025	977 12/2018 SPK value 1.000	R SPK Ref Val 0	unNo: 4 6eqNo: 1 %REC 99.2	8400 556765 LowLimit 77.3	Units: mg/K HighLimit 128	g	RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018 Analyte Benzene Toluene	Batch Analysis D Result 0.99 0.99	Date: 1/ PQL 0.025 0.050	977 12/2018 SPK value 1.000 1.000	R S SPK Ref Val 0 0	unNo: 4 eqNo: 1 %REC 99.2 98.9	8400 556765 LowLimit 77.3 79.2	Units: mg/K HighLimit 128 125	g	RPDLimit	Qual
Client ID: LCSS Prep Date: 1/11/2018 Analyte Benzene Toluene Ethylbenzene	Batch Analysis D Result 0.99 0.99 0.99	Date: 1/ PQL 0.025 0.050 0.050	977 12/2018 SPK value 1.000 1.000 1.000	R S SPK Ref Val 0 0 0	eqNo: 4 eqNo: 1 <u>%REC</u> 99.2 98.9 99.4	8400 556765 LowLimit 77.3 79.2 80.7	Units: mg/K HighLimit 128 125 127	g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1801651 15-Jan-18

WO#:

ANAL	CONMENTAL YSIS RATORY	Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	490 Iquerq FAX:	1 Hawk ue, NM 505-34	kins NE 87109 5-4107	San	nple Log-In Check List
Client Name:	BLAGG	Work Order Number:	180	1651			RcptNo: 1
Received By:	Isalah Ortiz	1/12/2018 8:05:00 AM			I	2	-
Completed By: Reviewed By:	Sophia Campuzano ƊƊS	1/12/2018 8:21:02 AM 1 /12 /18			igh	u Cargar	
Chain of Cus	<u>tody</u>						
1. Is Chain of C	ustody complete?		Yes	\checkmark	N		Not Present
2. How was the	sample delivered?		Cou	rier			
Log In							
	pt made to cool the samples	s?	Yes		No		NA 🗆
4. Were all samp	ples received at a temperatu	re of >0° C to 6.0°C	Yes		No		
5. Sample(s) in p	proper container(s)?		Yes	\checkmark	No		
6. Sufficient sam	ple volume for indicated test	l(s)?					
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	\checkmark			
8. Was preserva	tive added to bottles?		Yes		No		NA 🗆
9. VOA vials hav	e zero headspace?		Yes		No		No VOA Vials 🗹
10, Were any san	nple containers received bro	ken?	Yes		No		# of preserved bottles checked
	ork match bottle labels? ancies on chain of custody)		Yes		No		for pH: (<2 or >12 unless note
12. Are matrices of	correctly identified on Chain	of Custody?	Yes				Adjusted?
13. Is it clear what	t analyses were requested?		Yes	\checkmark			
	ng times able to be met? ustomer for authorization.)		Yes		No		Checked by:
Special Handl	ing (if applicable)						
15. Was client no	tified of all discrepancies wit	h this order?	Yes		No		NA 🗹
	Notified:	Date:				and and a set of the local set of the lo	
By Who	Sector	Via:	eM	ail 📋	Phone [Fax	In Person
Regard	Ing:	Lás Manda I a Ingela a Ball de La an Arigh a fra gun an an Ann		and the local data of	und the high from some die here	distant in statio	- CALLA ALAN DI - R. C. MILLANDA AND AND AND AND A
16. Additional re	· · · ·						
17. <u>Cooler Infor</u> Cooler No	Temp °C Condition		eal D	ate	Signed	Ву	1
1	0.3 Good Y	es					1

Page 1 of 1

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