District I 162% 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

1635

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

MAY 0 7 2018 Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well finid 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.

<u>Pit, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Type of action: Below grade tank registration

Permit of a pit or proposed alternative method

Closure of a pit, below-grade tank, or proposed alternative method

Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: GCU 090
API Number: 3004506981 OCD Permit Number:
API Number: 3004506981 OCD Permit Number: U/L or Qtr/Qtr M Section 35 Township 28N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.61522 Longitude -108.19483 NAD83
Surface Owner: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. TANK A
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95 bbl Type of fluid: Produced Water
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 Steel
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
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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
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 not visible Liner type: Thickness mil HDPE PVC Other
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 not visible Liner type: Thickness mil HDPE PVC Other
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
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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
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 not visible Liner type: Thickness mil HDPE PVC Other 4. 4. 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, hospital,
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95bbl 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 not visible Liner type: Thickness

 6. <u>Netting</u>: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) 	
 7. Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC 	
 8. <u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> 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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	□ Yes □ No □ 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.	🗌 Yes 🗌 No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

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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).	🗌 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 NM Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC 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 19.11 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	uments are NMAC 5.17.9 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 doct 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 19.1 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:	15.17.9 NMAC

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. 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
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 Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	luid Management Pit
 On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method 	
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 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.	rce material are Please refer to
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	
a transference of termedicin new the multicipanty, written approval obtained non-the multicipanty	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	Yes No
Within a 100-year floodplain. - 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 plate 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 19.15.17.13 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 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 canned 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 Site Reclamation 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 believed and be	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 59	12018
Title: <u>Cavironmental Operatist</u> OCD Permit Number:	12018
Title: 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.	
Title: 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. Image: Closure Completion Date: 3/12/2018	
Title: 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.	complete this

Oil Conservation Division

22. Operator Closure Certification:

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

Signature:

Title: Field Environmental Coordinator

erin garifalos

Date: May 3, 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

GCU 090

API No. 3004506981

Unit Letter M Section 35 T 28N R 13W

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.

<u>General Closure Plan</u>

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
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.017
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.067
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<51
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.

BP BGT Closure Plan 04-01-2010

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 and a 105 bbl shallow low profile above-grade tank set atop BGT 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 and a 105 bbl shallow low profile above-grade tank set atop BGT 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 and a 105 bbl shallow low profile above-grade tank set atop BGT 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 and a 105 bbl shallow low profile above-grade tank set atop BGT 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 and a 105 bbl shallow low profile above-grade tank set atop BGT 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.

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.

BP BGT Closure Plan 04-01-2010

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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.

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						OP	'ERA'	TOR			Initia	al Report		Final Repor
				tion Compar				n Garifa						
			armingto	n, NM 8740	1			No. (832)						
Facility Nat								e: Natu	ral Ga	as vve				
Surface Ow	mer: Fed	eral		Mineral	Owner	: Fed	leral				API No	.30045	0698	1
				LOC	ATIO	N O	F RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	h/Soutl	h Line	Feet from	n the		Vest Line	County	-	1
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		ow grade ta	nk - 95	bl		n/a	L				n/a			
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By Whom?		1 10					te and H							
Was a Water	course Read	ched?	Yes 🗸	No		If	YES, Vo	olume Impa	acting the	he Wate	ercourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.*											
Describe Ca	se of Probl	em and Reme	dial Action	Token *										
Describe Cat	150 01 1 1001		ulai Actioi	Sam								ne durir	-	
					-							nd TPH		
				clos	ure st	anda	ards. F	-ield rep	oorts	and la	aborato	ry result	s are	attached.
Describe Are	a Affected	and Cleanup A	Action Tak	en.* No actio	n ne	2293	arv F	inal lab	orato	nv ar	alveis	letermir	ned n	0
				remedia			-		Joraid	ny ui	laryolo c			0
I hereby certi	fy that the	information gi	ven above	is true and com	olete to	the bes	stofmy	knowledge	e and u	nderstar	d that purs	uant to NM	IOCD ru	ules and
regulations a	ll operators	are required to	o report an	d/or file certain	release	notifica	ations a	nd perform	correct	tive acti	ons for rele	eases which	n may er	ndanger
				e of a C-141 rep investigate and										
or the environ	nment. In a	ddition, NMC	CD accep	tance of a C-141										
federal, state,	or local lay	ws and/or regu	ilations.					OIL	CONS	EDV	ATION	DIVISI	N	
6	Tina	ATTIC - De	1A					UIL	CONS	DERV	ATION	DIVISIO		
Signature:	nun g	wilfald												
	Erin G	Garifalos				Appro	oved by	Environme	ental Sp	ecialist	:			
				dinator										
		onmenta				Appro	oval Dat	te:		H	Expiration 1	Date:		
E-mail Addre	ess: erin.	garifalos	@bp.o	com		Cond	itions of	Approval	:			Attached	1	
Date: May	3, 2018		Phone:	(832) 609-7	048									

* Attach Additional Sheets If Necessary



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

March 5, 2018

bp

8

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: GALLEGOS CANYON UNIT 090 API #: 3004506981

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 8, 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_niv@yahoo.com; Garifalos, Erin

 Subject:
 BP Pit Close Notification - GALLEGOS CANYON UNIT 090

 Date:
 Monday, March 05, 2018 12:46:52 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>

March 5, 2018

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

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

GALLEGOS CANYON UNIT 090 API 30-045-06981 (M) Section 35 – T28N – R13W 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 8, 2018.

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

Sincerely,

Erin Garifalos

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

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

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

x × v	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199		API #:
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:		PAGE #: _1 of _1
QUAD/UNIT: M SEC: 35 TWP:		M	DATE STARTED: 03/08/18 DATE FINISHED:
1/4 -1/4/FOOTAGE: 1,190'S / 79 LEASE #: SF077967	D'W SW/SW LEASE TYPE: FEDERAL / STATE / FEE / INDI/ PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES		ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POIN 1) 95 BGT (SW/DB) 2)	WELL HEAD (W.H.) GPS COORD.: 36.61478 X 108.19 GPS COORD.: 36.61522 X 108.19483 DIST/ GPS COORD.: DIST/	ANCE/BEAR	ING FROM WH.:
,		ANCE/BEAR	
2) SAMPLE ID: 3) SAMPLE ID:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL (95) SAMPLE DATE: 03/08/18 SAMPLE TIME: 1305 LAB ANALYSIS:		5B/8021B/300.0 (CI)
SOIL COLOR: DARK YEI COHESION (ALL OTHERS): NON COHESIVE SUIGHT CONSISTENCY (NON COHESIVE SOILS): LU MOISTURE: DRY / <u>SLIGHTLY MOIST</u> MOIST / W SAMPLE TYPE: GRAB <u>COMPOSITE</u> DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERV EQUIPMENT SET OVER RECLAIMED AREA:	DOSE FIRM) DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION ET / SATURATED / SUPER SATURATED ANY AREAS DISPLAYING WETNESS: YES NO IO EXPLANATION - IO EXPLANATION - </td <td>/ FIRM / S - EXPLAN</td> <td>STIFF / VERY STIFF / HARD</td>	/ FIRM / S - EXPLAN	STIFF / VERY STIFF / HARD
EXCAVATION DIMENSION ESTIMATION DEPTH TO GROUNDWATER: >100'	IEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000'		IMATION (Cubic Yards) : <u>NA</u> D TPH CLOSURE STD: <u>5,000</u> ppm
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BE	STL SEPARATOR		EF #: P-947 D: VHIXONEVB2 J #: ermit date(s): 06/03/10 CD Appr. date(s): 03/07/17 NOVM = Organic Vapor Meter

revised: 11/26/13

Hall Environmental Anal	ysis Laborat	tory, Inc.			Analytical Report Lab Order 1803521 Date Reported: 3/12/20	18
CLIENT: Blagg Engineering			-		C-TB @ 5' (95)	
Project: GCU 90 Lab ID: 1803521-001	Matrix:	SOIL			2/2018 1:05:00 PM 2/2018 7:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	30	mg/Kg	20	3/9/2018 1:02:31 PM	36930
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	3/9/2018 1:20:00 PM	G49679
Sur: BFB	123	70-130	%Rec	1	3/9/2018 1:20:00 PM	G49679
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analyst	: том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/9/2018 10:55:58 AM	36928
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	3/9/2018 10:55:58 AM	36928
Surr: DNOP	89.9	70-130	%Rec	1	3/9/2018 10:55:58 AM	36928
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	AG
Benzene	ND	0.017	mg/Kg	1	3/9/2018 1:20:00 PM	R49679
Toluene	ND	0.033	mg/Kg	1	3/9/2018 1:20:00 PM	R49679
Ethylbenzene	ND	0.033	mg/Kg	1	3/9/2018 1:20:00 PM	R49679
Xylenes, Total	ND	0.067	mg/Kg	1	3/9/2018 1:20:00 PM	R49679
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	3/9/2018 1:20:00 PM	R49679
Surr: Toluene-d8	93.2	70-130	%Rec	1	3/9/2018 1:20:00 PM	R49679

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

Qualifiers:	٠	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	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

C	hain-	of-Cus	stody Record	Tum-Around 1	Time:	SAME] .	ł		F	4 A i	LL	F	NV	/T E	20	NI		: NI "	ГÅ		
Client:	BLAG	ig Engr.	/ BP AMERICA		(Rush _	DAY	╎┌	-	F			AL						•			•	
			·	Project Name			1					 w.ha							- -	. 4.		
Mailing A	ddress:	P.O. BO	X 87	1	GCU #9	0		49	01 H	lawk									9			
		BLOOM	FIELD, NM 87413	Project #:			1)5-34				•	•	-	-410					
Phone #:		(505) 63	2-1199									Д	Anal	ysis	Rec	lues	t					
email or l	Fax#:		e	Project Manag	jer:				i.					()				न				
QA/QC Pa	-		Level 4 (Full Validation)		ERIN GARI	FALOS	H (8021B)	(Vino	MRO)			S)		04,50	PCB's			er - 300.1)				
Accredita				Sampler:	NELSON V	ELEZ	18	Gas	DRO /	â	a	SIM		020	082			wate			튙	
				the set provide second at a provide structure of				Ha		118.	504	3270		N.8C	s / 8		Æ	0.00			e sal	Î
	Туре)				chiles est			H H	(GRC	7 po	po	2	etals	J'N	cide	F	2	т		e	osit	ō ≿
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	- HEAL NO - 1	BTEX + MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
. 3/8/18	1305	SOIL	5PC - TB @ 5 / (95)	4 oz 1	Cool	70	V		V									V			V	\square
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<u> </u>	110-1	<u>y vin</u>	utmitted to Hall Environmental may be s	ubcontracted to other			f this n			nv sub			-	di ba	-1							ن

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 GCU 90 **Project:**

Sample ID MB-36930	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36930	RunNo: 49678		
Prep Date: 3/9/2018	Analysis Date: 3/9/2018	SeqNo: 1606654	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-36930	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-36930 Client ID: LCSS	SampType: Ics Batch ID: 36930	TestCode: EPA Method RunNo: 49678	300.0: Anions	
Client ID: LCSS				
	Batch ID: 36930 Analysis Date: 3/9/2018	RunNo: 49678	r	RPDLimit Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- Ε Value above quantitation range

Reporting Detection Limit

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL

w Sample container temperature is out of limit as specified WO#: 1803521

Page 2 of 5

12-Mar-18

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU 90

Sample ID LCS-36928	SampType: LCS Batch ID: 36928			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS				F	RunNo: 4	9663				
Prep Date: 3/9/2018	Analysis Date: 3/9/2018		5	SeqNo: 1	605981	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	70	130			-
Surr: DNOP	3.8		5.000		77.0	70	130			
Sample ID MB-36928	SampT	ype: MB	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID MB-36928 Client ID: PBS	•	ype: ME 1D: 36			tCode: E RunNo: 4		8015M/D: Di	esel Rang	e Organics	
•	•	n ID: 36		F		9663	8015M/D: Di Units: mg/H	J	e Organics	
Client ID: PBS	Batch	n ID: 36	928 /9/2018	F	RunNo: 4 SeqNo: 1	9663		J	e Organics	Qual
Client ID: PBS Prep Date: 3/9/2018 Analyte	Batch Analysis D	n ID: 36 Pate: 3/	928 /9/2018	F	RunNo: 4 SeqNo: 1	9663 605982	Units: mg/ M	ح (g	-	Qual
Client ID: PBS Prep Date: 3/9/2018	Batch Analysis D Result	n ID: 36 Pate: 3/	928 /9/2018	F	RunNo: 4 SeqNo: 1	9663 605982	Units: mg/ M	ح (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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 5

WO#: 1803521 12-Mar-18

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Blagg Engineering
Project:	GCU 90

Sample ID 100ng Ics	SampType: LCS4			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch ID: R49679			RunNo: 49679						
Prep Date:	Analysis [Date: 3/	9/2018	S	eqNo: 1	606539	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.7	70	130			
Surr: Toluene-d8	0.47		0.5000		94.1	70	130			
Comple ID										
Sample ID rb	Samp	Гуре: МЕ	BLK	Test	Code: El	PA Method	8260B: Volat	lies Short	List	
Client ID: PBS		fype:ME hID:R4			tCode: El tunNo: 4		8260B: Volat	liles Short	List	
•		h ID: R4	9679	R		9679	8260B: Volat Units: mg/K		List	
Client ID: PBS	Batc	h ID: R4	9679 9/2018	R	unNo: 4	9679			: List RPDLimit	Qual
Client ID: PBS Prep Date:	Batc Analysis [h ID: R4 Date: 3/	9679 9/2018	R	tunNo: 4 SeqNo: 1	9679 606548	Units: mg/K	ģ		Qual
Client ID: PBS Prep Date: Analyte	Batc Analysis [Result	h ID: R4 Date: 3/	9679 9/2018	R	tunNo: 4 SeqNo: 1	9679 606548	Units: mg/K	ģ		Qual
Client ID: PBS Prep Date: Analyte Benzene Foluene	Batc Analysis [Result ND	h ID: R4 Date: 3 / PQL 0.025	9679 9/2018	R	tunNo: 4 SeqNo: 1	9679 606548	Units: mg/K	ģ		Qual
Client ID: PBS Prep Date: Analyte Benzene	Batc Analysis I Result ND ND	h ID: R4 Date: 3/ PQL 0.025 0.050	9679 9/2018	R	tunNo: 4 SeqNo: 1	9679 606548	Units: mg/K	ģ		Qual
Client ID: PBS Prep Date: Analyte Benzene Foluene Ethylbenzene	Batc Analysis I Result ND ND ND	h ID: R4 Date: 3/ PQL 0.025 0.050 0.050	9679 9/2018	R	tunNo: 4 SeqNo: 1	9679 606548	Units: mg/K	ģ		Qual
Client ID: PBS Prep Date: Analyte Renzene oluene ithylbenzene ylenes, Total	Batc Analysis I Result ND ND ND ND	h ID: R4 Date: 3/ PQL 0.025 0.050 0.050	9679 9/2018 SPK value	R	anNo: 4 eqNo: 1 %REC	9679 606548 LowLimit	Units: mg/K HighLimit	ģ		Qual

Qualifiers:

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

Page 4 of 5

WO#: 1803521

12-Mar-18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** GCU 90

SampT	ype: LC	S	TestCode: EPA Method 8015D Mod: Gasoline Range						
Batch ID: G49679			RunNo: 49679						
Analysis Date: 3/9/2018			S	SeqNo: 1	606536	Units: mg/Kg			
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
29	5.0	25.00	0	118	70	130			
540		500.0		108	70	130			
SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
								-	
Batch	ID: G4	9679	F	RunNo: 4	9679			-	
Batch Analysis D		9679 9/2018		RunNo: 49 SeqNo: 10		Units: mg/M	g		
		9/2018				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Analysis D	ate: 3/	9/2018	S	SeqNo: 1	606537	0	0	RPDLimit	Qual
	Batch Analysis D Result 29 540	Batch ID: G4 Analysis Date: 3/ Result PQL 29 5.0 540	Analysis Date:3/9/2018ResultPQLSPK value295.025.00	Batch ID: G49679 F Analysis Date: 3/9/2018 S Result PQL SPK value SPK Ref Val 29 5.0 25.00 0 540 500.0 500.0 500.0	Batch ID: G49679 RunNo: 4 Analysis Date: 3/9/2018 SeqNo: 1 Result PQL SPK value SPK Ref Val %REC 29 5.0 25.00 0 118 540 500.0 108 108	Batch ID: G49679 RunNo: 49679 Analysis Date: 3/9/2018 SeqNo: 1606536 Result PQL SPK value SPK Ref Val %REC LowLimit 29 5.0 25.00 0 118 70 540 500.0 108 70	Batch ID: G49679 RunNo: 49679 Analysis Date: 3/9/2018 SeqNo: 1606536 Units: mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 29 5.0 25.00 0 118 70 130 540 500.0 108 70 130	Batch ID: G49679 RunNo: 49679 Analysis Date: 3/9/2018 SeqNo: 1606536 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 29 5.0 25.00 0 118 70 130 540 500.0 108 70 130 130	Batch ID: G49679 RunNo: 49679 Analysis Date: 3/9/2018 SeqNo: 1606536 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 29 5.0 25.00 0 118 70 130 130 540 500.0 108 70 130 130 130 130

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
- 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#: 1803521

12-Mar-18

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 Ha iquerque, 1 FAX: 505	wkins NE NM 87109 -345-4107	Sar	nple Log-In (Check List	
Client Name: BLAGG W	ork Order Number:	180352	1		RcptNo	: 1	
				1	× ,		
Received By: Anne Thome 3/9/2	2018 7:35:00 AM		- Cl	me H.	-		e.
	2018 8:18:47 AM		a	me A.	· · · · · · · · · · · · · · · · · · ·		
Reviewed By: ENM 3/	9/18						
					* * *		
Chain of Custody				• • •			
Is Chain of Custody complete?		Yes 🗹	1	No 🗌 .	Not Present		
. How was the sample delivered?		Courier					
						. •	
Log In B. Was an attempt made to cool the samples?		Yes 🗹					
· was all attempt made to cool the samples?							
4. Were all samples received at a temperature of >0°	C to 6.0°C	Yes 🗹	N	lo 🗌			
5. Sample(s) in proper container(s)?		Yes 🗹	N	lo 🗌 .	· ·		
2. Outfiniant annuals walking far indianted test/s/2		Yes 🗹	N	•			
5. Sufficient sample volume for indicated test(s)?		_		•			
7. Are samples (except VOA and ONG) properly prese	erved?	Yes 🗹		• 🗹	NA 🗌		
3. Was preservative added to bottles?		Yes 🗀	N				
9. VOA vials have zero headspace?		Yes	N	•	No VOA Vials		
0. Were any sample containers received broken?		Yes	· N	lo 🗹			٦
					# of preserved bottles checked		
1. Does paperwork match bottle labels?		Yes 🗹	N	•	for pH:	r >12 unless noted)	
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custod		Yes 🗹		• 🗆	Adjusted?	>12 unless noted)	
 Are matrices correctly identified on Chain or Custoc Is it clear what analyses were requested? 		Yes V		• □			
4. Were all holding times able to be met?		Yes 🗹	**	•	Checked by:		
(If no, notify customer for authorization.)							
pecial Handling (if applicable)							
5. Was client notified of all discrepancies with this ord	ier?	Yes 🗌			NA 🗹		
NEED STOCK OF GOOD AND AND AND AND AND AND AND AND AND AN	and an					7	
Person Notified:	Date		Dhama	- Farr			
By Whom: Regarding:	Via:	eMail	Phone	_ Fax	In Person		
Client Instructions:					-		
-							
6. Additional remarks:							
7. <u>Cooler Information</u>	and an interest	i and the state	nit senarasia				
Cooler No Temp C. Condition Seal Inte 1 1.0 Good Yes	ict Seal No S	eal Date	Signe	а Ву	4		
1 11.0 0000 ITes]		



