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

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

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.

<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: HUGHES 004E
API Number: 3004525191 OCD Permit Number:
API Number: 3004525191 OCD Permit Number: U/L or Qtr/Qtr P Section 29 Township 29N Range 08W County: San Juan
Center of Proposed Design; Latitude 36.69197 Longitude -107.69434 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover MAK 0 8 2018 Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC 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: Thicknessmil
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
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, institution or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify



Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other_	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8	
Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept	otable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
General siting	
ocheral string	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 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).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No
 application. 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

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								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site								
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Permanent Pit or Multi-Well Fluid Management Pit								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No							
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 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:	.15.17.9 NMAC							
Transcory representations of the control of the con								

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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	
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 Fl	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 On-site Trench Burial Alternative Closure Method	und management rit
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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.	163 110
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
- TENA map	
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 Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and 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: Approval Date: 32	2/2018
Title: Coliconnental Checklist OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 1/11/2018	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please incommark 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	licate, by a check

22.	
Operator Closure Certification:	
	tted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin garifalos	Date: February 7, 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

HUGHES 004E

API No. 3004525191

Unit Letter P Section 29 T 29N R 08W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

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

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

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

The BGT was transported for recycling.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	<0.080
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<49
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.

7. 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 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.

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

	Release Notification and Corrective Action											
												Final Report
				tion Compan			n Garifalos	=0.10				
Address 20 Facility Na	Address 200 Energy Court, Farmington, NM 87401 Telephone No. (832) 609-7048 Facility Name HUGHES 004E Facility Type: Natural Gas Well											
Surface Ow	ner: Fed	eral		Mineral (Owner:	Federal			API No	.300452	5191	
						OF RE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line	County	'on	luon
Р	29	29N	W80	930	Sou	ıth	990	Eas	st	3	an	Juan
			Latitud	e 36.69197	Lo	ongitude -1	07.69434	NAD	83			
						OF REL						
Type of Rele	ase:: none)			CICE		Release:: unkno	own	Volume I	Recovered::	N/A	
Source of Re	^{lease:} belo	w grade ta	nk - 95	bbl		Date and H	lour of Occurrence	e:	Date and n/a	Hour of Dis	covery:	
Was Immedi		Given?				If YES, To	Whom?		1110			
D WII 0		Ц	Yes ✓	No Not R	equired		-					
By Whom? Was a Water	course Read	ched?				Date and H	lour olume Impacting t	he Wat	ercourse			
was a water	course reac		Yes 🗸	No		II ILS, ve	nume impacting t	ine wat	creourse.			
If a Watercon	irse was Im	pacted, Descr	ibe Fully.*									
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*								
							beneath the					
					-		d for Chlorid Field reports					
D! A	- A CC1 - 1	1.01	T. 1		ile Sta	ilualus. I	reid reports	anu	aborato	ry results	ale	allacrieu.
Describe Are	a Affected	and Cleanup A	Action Tak	No actio	n nec	essary. F	inal laborate	ory a	nalysis o	determin	ed no)
				remedia	l actio	n is requ	ired.					
							knowledge and u					
							nd perform correct arked as "Final Re					
should their	perations h	ave failed to a	dequately	investigate and r	remediate	e contaminati	on that pose a thre	eat to g	round water	r, surface wa	ter, hur	nan health
		ws and/or regu		tance of a C-141	report do	oes not reliev	e the operator of i	respons	ibility for c	ompliance w	ith any	other
		^					OIL CONS	SERV	ATION	DIVISIO	N	
l	run 9	wifalo	4									
Signature:	0	-				Approved by	Environmental S ₁	pecialis	t:			
Printed Name	Erin G	arifalos										
Title: Field	Enviro	onmenta	l Coo	dinator		Approval Dat	e:		Expiration 1	Date:		
E-mail Addre	ss: erin.	garifalos	@bp.	com		Conditions of						
Date: Febru				(832) 609-70						Attached		
* Attach Addi				(552) 553-76	0-10							

bp



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

December 29, 2017

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: HUGHES 004E

API #: 3004525191

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 5, 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: Subject: jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin

Subject: Date: BP Pit Close Notification - HUGHES 004E Friday, December 29, 2017 7:46:47 AM

BP America Production Company

380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

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

December 29, 2017

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

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

HUGHES 004E API 30-045-25191 (P) Section 29 – T29N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around January 5, 2018.

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

Sincerely,

Erin Garifalos

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

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

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

client: · BP	P.O. BOX 87, B	NGINEERING, INC LOOMFIELD, NM 15) 632-1199		API #: 3004525191 TANK ID (if applicble): A	
FIELD REPORT:	(circle one): BGT CONFIRMATION		THER:	(if applicble):A PAGE #:1 of1	1_
SITE INFORMATION QUAD/UNIT: P SEC: 29 TWP:	29N RNG: 8W PM:	NM CNTY: SJ	ST: NM	DATE STARTED: 01/08/18 DATE FINISHED:	
1/4 - 1/4/FOOTAGE: 930'S / 990'I LEASE #: SF078046		YPE: FEDERAL STATE / STRIKE ONTRACTOR: BP - J. GO		SPECIALIST(S): NJV	
2)	GPS COORD.: 36 GPS COORD.: GPS COORD.:		DISTANCE/BEA DISTANCE/BEA DISTANCE/BEA	RING FROM W.H.: 103', \$2E RING FROM W.H.:	
SAMPLING DATA: 1) SAMPLE ID: 5PC - TB @ 5' 2) SAMPLE ID: 3) SAMPLE ID:	SAMPLE DATE:	DR LAB USED: HALL 8/18 SAMPLETIME: 1135 SAMPLETIME: SAMPLETIME: SAMPLETIME:	LAB ANALYSIS: 80° LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS:	OVM READIN (ppm)	NG
SOIL DESCRIPTION SOIL COLOR: MOSTLY DARK COHESION (ALL OTHERS): NON COHESIVE (SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES IN	YELLOWSH ORANGE YCOHESIVE COHESIVE / HIGHLY COHESIVE DOSE (FIRM) DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS. 5	1	SLIGHTLY PLASTIC C SILTS): SOFT FIRM		ПС —
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PR	DAND/OR OCCURRED : YES NO EXPL YES NO EXPLANATION - 105 BB	ANATION:	ABOVE-GRADE TA	NK TO BE SET ATOP BGT LOCATION	ON.
EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N	NA ft. X NA EAREST WATER SOURCE: >1,000 BGT Located: off on sit		>1,000' NMOC		ppm
OTTE ORETOTT	TO W.F.	<u> </u>	N TIME	MISCELL. NOTES	.00
FENCE PROD. TANK BERM	FENCE BERM	SEPARATOR PBGTL XXX T.B. ~ 5' B.G.	P P O Tai II	ppm = parts per million BGT Sidewalls Visible: Y /N	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW-SINGLI NOTES: GOOGLE EARTH IMAG	OW-GRADE TANK LOCATION; SPD = SAMPLE F E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	ELOW; T.H. = TEST HOLE; ~ = APPROX.; W POINT DESIGNATION; R.W. = RETAINING V	NALL; NA - NOT N	BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: 10° E	_

Analytical Report

Lab Order 1801371

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: HUGHES 4E

Collection Date: 1/8/2018 11:35:00 AM

Lab ID: 1801371-001

Matrix: MEOH (SOIL) Received Date: 1/9/2018 7:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	1/9/2018 11:32:34 AM	35930
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	1/9/2018 10:32:24 AM	G48294
Surr: BFB	105	70-130	%Rec	1	1/9/2018 10:32:24 AM	G48294
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/9/2018 10:43:53 AM	35924
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/9/2018 10:43:53 AM	35924
Surr: DNOP	102	70-130	%Rec	1	1/9/2018 10:43:53 AM	35924
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	AG
Benzene	ND	0.020	mg/Kg	1	1/9/2018 10:32:24 AM	R48294
Toluene	ND	0.040	mg/Kg	1	1/9/2018 10:32:24 AM	R48294
Ethylbenzene	ND	0.040	mg/Kg	1	1/9/2018 10:32:24 AM	R48294
Xylenes, Total	ND	0.080	mg/Kg	1	1/9/2018 10:32:24 AM	R48294
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	1/9/2018 10:32:24 AM	R48294
Surr: Toluene-d8	102	70-130	%Rec	1	1/9/2018 10:32:24 AM	R48294

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- Analyte detected below quantitation limits Page 1 of 5 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

C	hain-	of-Cus	stody Record	Turn-Around	Time:	SAME					IA		E	MV	716	20	NIR	4E	NT.	AI	
Client:	BLAC	G ENGR.	/ BP AMERICA	☐ Standard Project Name	Rush _	DAY					IN	AL	Y	SIS	S L	A	30	RA	TO		
Mailing A	ddress:	P.O. BO	X 87		HUGHES #	4E	6	49	01 H	lawk							.com	7109)		
	ENGINE .	BLOOM	FIELD, NM 87413	Project #:	The state of the s	ger and the second seco)5-3·					are to the	No.	-410				
Phone #:		(505) 63	2-1199									1	Anal	ysis	Rec	ques	t				
email or l	Fax#:	7	-10	Project Mana	ger		11 4	1-1	Profession of	1		1		4)		3.6		1		-	
QA/QC Pa			Level 4 (Full Validation)		ERIN GARII	FALOS	5 (80218)	[Ajuo	(MRO)			(5)		PO4,50	PCB's			er 300,1)			۵ ا
Accredita	tion.			Sampler:	NELSON VE		8)	+TPH (Gas	RO,	T	1	SSIN		102,	808			/ water		1,000	-
□ NELA	9	□ Other		On Ice	☑ Yes	DNO 975	1	TPH	0/0	418.	504	327	94	2,0	1/5	1	(A)	0.00		1 5	Z
D EDD (Type)			Sample Temp	erature; 3,4_	0.5(CF)=7P	ŧ	+ 3	(GRC	po	pol	ō	tals	N,	cide	(A)	J-VC	E - 1	3	2 1	5 2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MTE	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB [Method 504.1]	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (sail - 300.0 /	alamara derag	Grab samp	Air Bubbles (Y or N)
1/8/18	1135	SOIL	5PC-TB@ 5 (95)	4 021	Cool	-001	٧	XoL	٧									٧			1
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					to the second	And the second s		2		100					7 7 7						
	Action					10 mm m m m m m m m m m m m m m m m m m		1	11						1 1		L			1	
	de deserte				1	10 mm				7						Se-					-
Date:	Time 1545	Relinquish	an Vj	Received by	(tourier)	Date Time	1 mo 3%	narks ONT		10.5 (1)	FERE	NCE #	WHE	NAPP	LICAI	BLE;	la-	WITH C	ORRESP	POND	NG VID
Date:	Time:	Relinquish	ed by: U	Received by:		Date Time				VHC	KON		2	10.00							

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801371

11-Jan-18

Client:

Blagg Engineering

Project:

HUGHES 4E

Sample ID MB-35930

SampType: mblk

TestCode: EPA Method 300.0: Anions

PBS

Batch ID: 35930

RunNo: 48302

Client ID:

Prep Date: 1/9/2018

Analysis Date: 1/9/2018

SeqNo: 1552307

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC 1.5

LowLimit

HighLimit %RPD **RPDLimit**

Qual

Chloride

ND

SampType: Ics

Batch ID: 35930

TestCode: EPA Method 300.0: Anions RunNo: 48302

Prep Date: 1/9/2018

Sample ID LCS-35930

Client ID: LCSS

Analysis Date: 1/9/2018

SeqNo: 1552308

Units: mg/Kg

%RPD **RPDLimit**

Analyte

PQL SPK value SPK Ref Val %REC

15.00

93.1

LowLimit

HighLimit 110 Qual

Chloride

1.5

14

Qualifiers:

D

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank B

Value above quantitation range Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801371

11-Jan-18

Client:

Blagg Engineering

Project: HUGHE	S 4E		
Sample ID LCS-35924	SampType: LCS	TestCode: EPA Method 8015M/D:	Diesel Range Organics
Client ID: LCSS	Batch ID: 35924	RunNo: 48292	
Prep Date: 1/9/2018	Analysis Date: 1/9/2018	SeqNo: 1550980 Units: m	g/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLim	it %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45 10 50.00	0 90.4 70 13	0
Surr: DNOP	4.5 5.000	90.8 70 13	0
Sample ID MB-35924	SampType: MBLK	TestCode: EPA Method 8015M/D:	Diesel Range Organics
Client ID: PBS	Batch ID: 35924	RunNo: 48292	
Prep Date: 1/9/2018	Analysis Date: 1/9/2018	SeqNo: 1550981 Units: m	g/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLim	it %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	10 10.00	102 70 13	0
Sample ID LCS-35915	SampType: LCS	TestCode: EPA Method 8015M/D:	Diesel Range Organics
Client ID: LCSS	Batch ID: 35915	RunNo: 48292	
Prep Date: 1/8/2018	Analysis Date: 1/9/2018	SeqNo: 1551228 Units: %	Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLim	it %RPD RPDLimit Qual
Surr: DNOP	4.8 5.000	96.3 70 13	0
Sample ID MB-35915	SampType: MBLK	TestCode: EPA Method 8015M/D:	Diesel Range Organics
Client ID: PBS	Batch ID: 35915	RunNo: 48292	
Prep Date: 1/8/2018	Analysis Date: 1/9/2018	SeqNo: 1551229 Units: %	Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLim	it %RPD RPDLimit Qual
Surr: DNOP	10 10.00	103 70 13	0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit **PQL**
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Page 3 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801371

11-Jan-18

Client:

Blagg Engineering

Project:

HUGHES 4E

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch ID: R48294			RunNo: 48294						
Prep Date:	Analysis Date: 1/9/2018			SeqNo: 1551049			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	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			

Sample ID 100ng btex Ics	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	Batch ID: R48294			RunNo: 48294							
Prep Date:	Analysis Date: 1/9/2018			SeqNo: 1551978 Units:			Units: mg/k	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.025	1.000	0	122	80	120			S	
Toluene	1.1	0.050	1.000	0	106	80	120				
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120				
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120				
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.5	70	130				
Surr: Toluene-d8	0.52		0.5000		103	70	130				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801371 11-Jan-18

Client:

Blagg Engineering

Project:

HUGHES 4E

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: G48294

PQL

5.0

RunNo: 48294

Prep Date:

Analysis Date: 1/9/2018

SeqNo: 1550990

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

LowLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 530

500.0

105

HighLimit 130

70

LowLimit

%RPD **RPDLimit**

Sample ID 2.5ug gro lcs

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS

Batch ID: G48294

RunNo: 48294

Prep Date:

Analysis Date: 1/9/2018

PQL

SeqNo: 1552011

%REC

Units: mg/Kg

HighLimit %RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 27

25.00

5.0 0 110 70 130 480 500.0 96.5 70 130

Qualifiers:

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

Page 5 of 5



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numbe	r: 1801371		RcptNo:	1			
Received By:	Erin Melendrez	1/9/2018 7:45:00 AM		Max.	7				
Completed By:	Sophia Campuzano	1/9/2018 8:24:07 AM		Sophia Carper					
Reviewed By:	ENM	1/9/18							
					4				
Chain of Cus	tody								
1. Is Chain of Custody complete?			Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?			Courier						
Log In									
_	npt made to cool the samples	?	Yes 🗹	No 🗆	NA 🗆				
4. Were all samp	oles received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆				
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆					
			🖪	N: 🗖					
6. Sufficient sample volume for indicated test(s)?			Yes ✓	No 🗆					
Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles?			Yes 🗹	No 🗹	NA 🗆				
o. vvas preserva	tive added to bottles?		res 🗆	140 (2)	NA L				
9. VOA vials have zero headspace?			Yes	No 🗌	No VOA Vials 🗹				
10. Were any sample containers received broken?			Yes	No 🗹	# of preserved				
					bottles checked				
Carrier Committee Committe	ork match bottle labels? ancies on chain of custody)		Yes 🗸	No 📙	for pH: (<2 or	>12 unless noted)			
12. Are matrices correctly identified on Chain of Custody?			Yes 🗸	No 🗆	Adjusted?				
13. Is it clear what analyses were requested?			Yes 🗹	No 🗆					
14. Were all holding times able to be met?			Yes 🗸	No 🔲	Checked by:				
(if no, notify co	ustomer for authorization.)								
Special Handl	ing (if applicable)								
15. Was client no	tified of all discrepancies with	this order?	Yes	No 🗆	NA 🗹				
Person	Notified:	Date:				•			
By Who		Via:	eMail	Phone Fax	☐ In Person				
Regard	Commission of the Commission o	\$10000 (1000 1000 1000 1000 1000 1000 10	**************************************	ERENANTE EN LA SERVICIO DE LA SERVICIO DEL SERVICIO DEL SERVICIO DE LA SERVICIO DEL SERVICIO DE LA SERVICIO DEL SERVICIO DE LA SERVICIO DEL SERVICIO DEL SERVICIO DE LA SERVICIO DE LA SERVICIO DEL SERVICIO D					
	nstructions:								
16. Additional remarks:									
17. Cooler Information									
Cooler No	Temp °C Condition S 2.9 Good Ye		Seal Date	Signed By					
Γ			!	t to the second-	l				



