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

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade T Proposed Alternative Method Permit or	
Type of action: Below grade tank registration Permit of a pit or proposed alternative me Closure of a pit, below-grade tank, or pro Modification to an existing permit/or regi	ethod oposed alternative method gistration ing permitted or non-permitted pit, below-grade tank,
Please be advised that approval of this request does not relieve the operator of liability should o environment. Nor does approval relieve the operator of its responsibility to comply with any ot	
1. Operator: <u>BP America Production Company</u> Address: 200 Energy Court, Farmington, NM 87401	OGRID #: 778 OIL CONS. DIV DIST. 3
Facility or well name: ARCHULETA GAS COM B #001	SEP 1 9 2016
API Number: 3004528268 OCD Permit Number:	
U/L or Qtr/Qtr <u>N</u> Section <u>19</u> Township <u>30N</u> Range	e 08W County: San Juan
Center of Proposed Design: Latitude36.79214Longitude	-107.71894 NAD: □1927 ⊠ 1983
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 Permanent Emergency Cavitation P&A Multi-Well Fluid Managemen Lined Unlined Liner type: Thickness mil LLDPE HDPE String-Reinforced Liner Seams: Welded Factory Other Volume: 	PVC Other
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC TANKA	
Volume: 95 bbl Type of fluid: Produced water	
Tank Construction material:Steel	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift a	
Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other	
 <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa 	ta 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,
<i>institution or church)</i> Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	2
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	1. J
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 acception	ptable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	Yes No
- INM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No
 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)	Yes No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	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	□ Yes □ No
 from the ordinary high-water mark). 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

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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	□ Yes □ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa	
 lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
^{10.} <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached.</i>	
 Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. 	
and 19.15.17.13 NMAC	15.17.9 NWAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached.</i>	cuments are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC 	.15.17.9 NMAC
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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Oil Conservation Division

12.	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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	
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal	
Waste Removal (Closed-loop systems only)	
 On-site Closure Method (Only for temporary pits and closed-loop systems) 	
In-place Burial 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.	attached to the
 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC 	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F	
19.15.17.10 NMAC for guidance.	leuse rejer to
Ground water is less than 25 feet below the bottom of the buried waste.	Yes No
 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	🗆 NA
Ground water is between 25-50 feet below the bottom of the buried waste	Yes No
 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ NA
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	🗆 NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa	Yes No
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.	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence	Yes No
at the time of initial application.	
 NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	
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 of	

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 	Yes No
Within a 100-year floodplain. - FEMA map	Yes No
 <u>On-Site Closure Plan Checklist</u>: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC 	
 Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 cannue Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	15.17.11 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 	Beel 3
 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli 	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:	Dale
Title: Environmental Specalist OCD Permit Number:	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting</i> <i>The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not</i>	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting</i>	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting</i> <i>The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not</i> <i>section of the form until an approved closure plan has been obtained and the closure activities have been completed.</i>	complete this
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. ☑ Closure Completion Date: 7/16/2016 20. Closure Method: ☑ Waste Excavation and Removal On-Site Closure Method Alternative Closure Method	op systems only)

Oil Conservation Division

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):

Steve Moskal

e-mail address: steven.moskal@bp.com

Title: Field Environmental Coordinator

Signature:

22.

den Min

Telephone: (505) 326-9497

Date: September 16, 2016

Form C-144

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Archuleta Gas Com B 001</u> <u>API No. 3004528268</u> <u>Unit Letter N, Section 19, T30N, R08W</u>

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

- 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.

- 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 95 bbl BGT	Release Verification (mg/Kg)	Sample results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.021
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.083
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<50
Chlorides	US EPA Method 300.0 or 4500B	250 or background	120

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 TPH, BTEX and chloride 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.

 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

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, field report and C-141 has already been submitted for closure approval. The location will be reclaimed once 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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.

BP will notify NMOCD when re-vegetation is successful.

- 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.

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 Couth St Emais D

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

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11 60	D	D				OPERA'			Initia	al Report	\boxtimes	Final Repo
Name of Company: BP Address: 200 Energy Court, Farmington, NM 87401						Contact: Ste	eve Moskal No.: 505-326-94	107			_	
Facility Name: Archuleta Gas Com B 001							be: Natural gas					
							se. Haturar gas	wen	1			
Surface Ow	vner: Feder	al	_	Mineral C	Owner:]	Federal			API No	. 3004528	268	
				LOCA	ATIO	N OF RE	LEASE					
Jnit Letter	Section 19	Township 30N	Range 08W	Feet from the 890		South Line	Feet from the 920	East/W West	est Line	County: S	an Juan	
			La	titude 36.79	9214°	Longitu	de107718	94 °				
				NAT	URE	OF REL	EASE					
ype of Rele							f Release: unknow			Recovered: 1		
ource of Re	elease: below	w grade tank -	- 95 bbl			Date and H	Hour of Occurrent	ce:	Date and	Hour of Dis	covery:	none
Vas Immedi	iate Notice (Given?				If YES, To	Whom?			-		
			Yes 🛛	No 🗌 Not R	equired							
y Whom?						Date and H	the second se					
Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.							
f a Waterco	urse was Im	pacted, Descr			-							
Describe Cau	use of Probl	pacted, Descr em and Reme	ibe Fully.* dial Action	8		e soil beneath	n the BGT was do ached.	ne during	; removal.	Soil analys	is result	ed for
Describe Cau BTEX, TPH	use of Probland and chlorid	pacted, Descr em and Reme e below stand	ibe Fully.* dial Action ards. Fiel	n Taken.* Sampli Id reports and lab	oratory r	e soil beneath esults are atta						ed for
Describe Can BTEX, TPH Describe Arc hereby cert egulations a public health hould their or the enviro	use of Proble and chlorid ea Affected a ify that the i ill operators or the envir operations h nment. In a	pacted, Descr em and Reme e below stand and Cleanup <i>A</i> information gi are required t ronment. The ave failed to a	dial Action ards. Fiel Action Tak iven above o report an acceptanc adequately OCD accep	n Taken.* Sampli Id reports and lab ten.* No action no is true and comp Id/or file certain r te of a C-141 repo- investigate and r	oratory r ecessary. elete to the elease no ort by the emediate	e soil beneath esults are atta Final labora ne best of my potifications a e NMOCD me e contaminati	ached.	ported clo inderstand ctive actio eport" do eat to gro	d that purs ons for rele ons not reli ound water	e BGT locat suant to NM eases which ieve the open r, surface wa	tion. OCD ru may en rator of tter, hur	les and danger liability nan health
Describe Cau BTEX, TPH Describe Arc hereby cert egulations a ublic health hould their or the enviro ederal, state	use of Proble and chlorid ea Affected a ify that the i ill operators or the envir operations h nment. In a	pacted, Descr em and Reme e below stand and Cleanup <i>A</i> information gi are required t ronment. The ave failed to a ddition, NMC	dial Action ards. Fiel Action Tak iven above o report an acceptanc adequately OCD accep	n Taken.* Sampli Id reports and lab ten.* No action no is true and comp Id/or file certain r te of a C-141 repo- investigate and r	oratory r ecessary. elete to the elease no ort by the emediate	e soil beneath esults are atta Final labora ne best of my potifications a e NMOCD me e contaminati	ached. tory analysis support knowledge and u nd perform correct arked as "Final R ion that pose a thr	ported clo inderstand ctive actio eport" do eat to gro responsib	d that purs ons for rele ons not reli ound water oility for co	e BGT locat suant to NM eases which ieve the oper r, surface wa ompliance w	tion. OCD ru may en rator of tter, hur vith any	les and danger liability nan health
Describe Car BTEX, TPH Describe Are hereby cert egulations a ublic health hould their or the enviro ederal, state	use of Proble and chlorid ea Affected a ify that the i ill operators or the envir operations h nment. In a	pacted, Descr em and Reme e below stand and Cleanup A information gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu	dial Action ards. Fiel Action Tak iven above o report an acceptanc adequately OCD accep	n Taken.* Sampli Id reports and lab ten.* No action no is true and comp Id/or file certain r te of a C-141 repo- investigate and r	oratory r ecessary. lete to the elease no ort by the emediate report do	e soil beneath esults are atta Final labora be best of my potifications a NMOCD me contaminations not reliev	ached. tory analysis support knowledge and u nd perform correct arked as "Final R ion that pose a thr ye the operator of	ported clo inderstand ctive actio eport" do eat to gro responsib SERVA	d that purs ons for rele ons for rele ound water oility for co ATION	e BGT locat suant to NM eases which ieve the oper r, surface wa ompliance w	tion. OCD ru may en rator of tter, hur vith any	les and danger liability nan health
Describe Can BTEX, TPH Describe Are hereby cert egulations a ublic health hould their r the enviro ederal, state ignature:	use of Proble and chlorid ea Affected a ify that the i all operators or the enviro operations h nment. In a or local law	pacted, Descr em and Reme e below stand and Cleanup A information gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu	dial Action ards. Fiel Action Tak iven above o report an acceptance adequately OCD accep ilations.	n Taken.* Sampli Id reports and lab ten.* No action no is true and comp Id/or file certain r te of a C-141 repo- investigate and r	oratory r ecessary. lete to the elease no ort by the emediate report do	e soil beneath esults are atta Final labora be best of my potifications a NMOCD me contaminations not reliev	ached. tory analysis support knowledge and u nd perform correct arked as "Final R ion that pose a thr the operator of <u>OIL CON</u> Environmental S	ported clo inderstand eport" do eat to gro responsib SERVA pecialist:	d that purs ons for rele ons for rele ound water oility for co ATION	e BGT locat suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC	tion. OCD ru may en rator of tter, hur vith any	les and danger liability nan health
Describe Car BTEX, TPH Describe Are hereby cert egulations a public health hould their of or the enviro ederal, state Bignature: Printed Name Title: Field E	use of Proble and chlorid ea Affected a ify that the i ill operators or the enviro operations h nment. In a or local law e: Steve Mo Environment	pacted, Descr em and Reme e below stand and Cleanup A information gi are required to ronment. The ave failed to a ddition, NMC ws and/or regu Mac skal	dial Action ards. Fiel Action Tak iven above o report an acceptance adequately OCD accep ilations.	n Taken.* Sampli Id reports and lab ten.* No action no is true and comp Id/or file certain r te of a C-141 repo- investigate and r	oratory r ecessary. elete to the release no ort by the emediate report do	e soil beneath esults are atta Final labora ne best of my otifications a NMOCD m e contaminati bes not reliev	ached. tory analysis support knowledge and u nd perform correct tarked as "Final R ton that pose a thr te the operator of <u>OIL CON</u> Environmental S te:	ported clo inderstand eport" do eat to gro responsib SERVA pecialist:	d that purs ons for rele ones not reli ound water oility for co ATION	e BGT locat suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC	tion. OCD ru may en rator of tter, hur vith any <u>DN</u>	les and danger liability nan health

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

July 12, 2016

Juanita Velasquez Estate Attn: Celia Gonzalez 41 Road 4865 Bloomfield, NM 87413

Re: Notification of plans to close/remove a below grade tank Well Name: ARCHULETA GAS COM B 001

To Whom It May Concern,

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 July 15, 2016. 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 (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Moskal, Steven

From: Sent: To: Cc: Subject: Railsback, Farrah (CH2M HILL) Tuesday, July 12, 2016 2:17 PM Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us) jeffcblagg@aol.com; blagg_njv@yahoo.com; Moskal, Steven BP Pit Close Notification - ARCHULETA GC B 001

> BP America Production Company 200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

July 12, 2016

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

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

ARCHULETA GC B 001 API 30-045-28268 (N) Section 19 – T30N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around July 15, 2016.

1

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

Sincerely,

BP Field Environmental Coordinator

(505) 326-9497

Farrah Railsback 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	API #: 3004528268 TANK ID (if applicble): A		
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:		PAGE #: 1 of 1
SITE INFORMATION QUAD/UNIT: N SEC: 19 TWP: 1/4 - 1/4/FOOTAGE: 890'S / 920'V LEASE #: -	30N RNG: 8W PM: NM CNTY: SJ ST:		DATE STARTED: 07/15/16 DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POINT 1) 95 BGT (SW/DB) 2)	WELL HEAD (W.H.) GPS COORD.: 36.79190 X 10 GPS COORD.: 36.79214 X 107.71894 GPS COORD.:	DISTANCE/BEAU DISTANCE/BEAU DISTANCE/BEAU	GL ELEV.: 5,718' RING FROM W.H.: RING FROM W.H.: RING FROM W.H.: RING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	_	OVM READING (ppm)
2) SAMPLE ID: 3) SAMPLE ID: 4) SAMPLE ID:	(95) SAMPLE DATE: 07/15/16 SAMPLE TIME 1212 LAB ANALY SAMPLE DATE: SAMPLE TIME LAB ANALY SOIL TYPE: SAND SILT / SILTY CLAY / CLAY (GRAVEL)	SIS: SIS: SIS:	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY (SLIGHTLY MOIST MOIST) WE SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES N SITE OBSERVATION	COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): S DSE FIRM DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATED OF PTS. 5 D EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES D EXPLANATION - S: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - D EXPLANATION OF COCURRED : YES NO EXPLANATION: THE SINO EXPLANATION -	SOFT / FIRM / S	
SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >50' N			IMATION (Cubic Yards) : <u>NA</u> D TPH CLOSURE STD: <u>100</u> ppm
	BGT Located : off on site PLOT PLAN circle: att		CALIB. READ. = NA ppm RF =0.52 CALIB. GAS = NA ppm NA am/pm DATE NA MISCELL. NOTES /O: EF #: P - 632 ID: VHIXONEVB2 J #: ermit date(s): 06/14/10 CD Appr. date(s): 05/10/11 K OVM = Organic Vapor Meter ppm = parts per million
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	WALLS W.H. X - S. V DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WEL W-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	LHEAD;	BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N lagnetic declination: 10 ° E
NOTES: GOOGLE EARTH IMAGE			AREA IN THE

revised: 11/26/13

BEI1005E-6.SKF

Analytical Report

Lab Order 1607772

Date Reported: 7/19/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 5PC-TB @5'(95) Project: Archuleta GC B 1 Collection Date: 7/15/2016 12:12:00 PM Lab ID: 1607772-001 Matrix: MEOH (SOIL) Received Date: 7/16/2016 8:45:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	120	30	mg/Kg	20	7/18/2016 12:39:02 PM	26467
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst:	том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/18/2016 1:59:42 PM	26439
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/18/2016 1:59:42 PM	26439
Surr: DNOP	92.1	70-130	%Rec	1	7/18/2016 1:59:42 PM	26439
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	7/18/2016 10:33:40 AM	A35768
Surr: BFB	100	80-120	%Rec	1	7/18/2016 10:33:40 AM	A35768
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.021	mg/Kg	1	7/18/2016 10:33:40 AM	B35768
Toluene	ND	0.041	mg/Kg	1	7/18/2016 10:33:40 AM	B35768
Ethylbenzene	ND	0.041	mg/Kg	1	7/18/2016 10:33:40 AM	B35768
Xylenes, Total	ND	0.083	mg/Kg	1	7/18/2016 10:33:40 AM	B35768
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	7/18/2016 10:33:40 AM	B35768

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

ient:	and the second second		/ BP AMERICA	SAME SAME DAY						A	N		Y	519	S L	A	BO	R/	NT		
ailing Ad	ddress:	P.O. BO	X 87	ARCHULETA GC B#1			49	01 H									3710	9			
_		BLOOM	FIELD, NM 87413	Project #:	Project #:		1)5-34							-410				
ione #:		(505) 63	2-1199	1									-	ysis							
nail or F	ax#:			Project Mana	ger:									-				Ŧ			
A/QC Par] Standa			Level 4 (Full Validation)		NELSON VI	ELEZ	TMB's (80218)	(yino a	/ MRO]			(5)		PO4, 50.	PCB's			iter - 300.1)			a l
creditat	lion:			Sampler:	NELSON VI	ELEZ nr	100	(Ga	CRO	1)	1)	NIS(102,	3082			300.0 / water			N)
NELAP	>	Other		On Ice:	A Yes	D No]≇	Hdl	0/1	418.	504.	827(0%	1 8		(Y	0.00			E Sa
EDD (T	ype)			Sample Temp	erature: 3	8	1 +	3E +	(GR	poi	po	or	etals	CI'N	cide	A	1-1			e :	USU (Y o
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -	-	Grab sample	Air Bubbles (Y or N)
115/16	1212	SOIL	5PC-TB@ 5 (95)	4 oz 1	Cool	-001	٧		٧									٧		-	V
										_		-							_	-	_
									-		-	-	-						+	+	+
							-	-											+	-	+
												-									
		-					-	-			-	-	2		- 0				+	+	+
15/16	Time: 1403	Relinquishe	they		liket?		Ren	narks	-	Va	espo	Hixo	GVID	& RE	FEREI		WHEN	APPI	LICABLE		
ite: 15/14	Time: [PY]	Relinquishe	stre Walte	Received by:	5 710	Date Time	Ref	eren	VID: ce #		P-	NEV 632	82	V	DRIN	KJW.	A1	VD	RINK	WA1	

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

Client:

Blagg Engineering

Project: Archu	leta GC B 1		
Sample ID MB-26467	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 26467	RunNo: 35790	
Prep Date: 7/19/2016	Analysis Date: 7/18/2016	SeqNo: 1107751 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride	ND 1.5		
Sample ID LCS-26467	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 26467	RunNo: 35790	
Prep Date: 7/19/2016	Analysis Date: 7/18/2016	SeqNo: 1107752 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride	14 1.5 15.00	0 94.4 90 110	
Sample ID DOC 2	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 26467	RunNo: 35790	
Prep Date: 7/19/2016	Analysis Date: 7/18/2016	SeqNo: 1107753 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride	14 1.5 15.00	0 91.6 90 110	
Sample ID DOC 3	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 26467	RunNo: 35790	
Prep Date: 7/19/2016	Analysis Date: 7/18/2016	SeqNo: 1107754 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride	14 1.5 15.00	0 94.9 90 110	
Sample ID DOC 4	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 26467	RunNo: 35790	
Prep Date: 7/19/2016	Analysis Date: 7/18/2016	SeqNo: 1107755 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride	14 1.5 15.00	0 96.2 90 110	

Hall Environmental Analysis Laboratory, Inc.

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
- R RPD outside accepted recovery limits
- 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

WO#: 1607772

19-Jul-16

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Hall Environmenta	l Analysis Laboratory, I	nc.

WO#: 1607772

19-Jul-16

	Engineering eta GC B 1									
Sample ID LCS-26439		Type: LC					8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS Prep Date: 7/18/2016	Batcl Analysis D	h ID: 26 Date: 7			RunNo: 3 SegNo: 1		Units: mg/l	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.7	62.6	124			
Surr: DNOP	4.8		5.000		95.5	70	130			
Sample ID MB-26439	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 26	439	F	RunNo: 3	5765				
Prep Date: 7/18/2016	Analysis D	ate: 7	18/2016	5	SeqNo: 1	106623	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

8.5 10.00 84.6 70 130

Qualifiers:

Surr: DNOP

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:

1607772 19-Jul-16

Hall Environmental	Analysis	Laboratory,	Inc.
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Client:	Blagg Engineering
Project:	Archuleta GC B 1

Sample ID 5ML RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	Batch ID: A35768 RunNo: 35768				5768						
Prep Date:	Analysis D	ate: 7/	18/2016	5	SeqNo: 1	107116	Units: mg/M	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0	1000		99.7	80	120					
Sample ID 2.5UG GRO LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batch	ID: A3	5768	F	RunNo: 3	5768						
	Analysis D	ate: 7/	18/2016	S	SegNo: 1	107117	Units: mg/K	g				
Prep Date:	Analysis D											
Prep Date: Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
				SPK Ref Val		LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual		

Qualifiers:

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

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Reporting Detection Limit RL

WO#: 1607772

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19-Jul-16

Client:	Blagg Engineering
Project:	Archuleta GC B 1
rioject.	Architeta GC B I

Sample ID 5ML RB	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: B3	35768	F	RunNo: 3	5768				
Prep Date:	Analysis [Date: 7/	18/2016	5	SeqNo: 1	107152	Units: mg/k	٢g		
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	0.96		1.000		96.2	80	120			
Sample ID 100NG BTEX LCS	s Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: B3	5768	F	RunNo: 3	5768				
Prep Date:	Analysis D	Date: 7/	18/2016	S	SeqNo: 1	107153	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.5	75.3	123			
Toluene	0.91	0.050	1.000	0	91.4	80	124			
Ethylbenzene	0.96	0.050	1.000	0	96.1	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	95.8	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

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
- R RPD outside accepted recovery limits
- 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

	Website: www.hall		05-345	-4107	am	ple Log-In Check List
Client Name: BLAGG Work	Order Number:	1607	772			RoptNo: 1
Received by/date: CM 07/	16/16					
Logged By: Joe Archuleta 7/16/20	16 8:45:00 AM			PER	1-	
Completed By: Joe Archuleta, 7/16/20	16 12:56:27 PM			JE.C.	1-	
Reviewed By: Glas 0	1/18/16			1		
Chain of Custody	1. 9/10					
1. Custody seals intact on sample bottles?		Yes		No		Not Present
2. Is Chain of Custody complete?		Yes	-	No		Not Present
3. How was the sample delivered?		Cour	ier			
Log In						
 Was an attempt made to cool the samples? 		Yes	1	No		
Were all samples received at a temperature of >0° C	to 6.0°C	Yes	~	No		NA
6. Sample(s) in proper container(s)?		Yes		No		
7. Sufficient sample volume for indicated test(s)?		Yes		No		
8. Are samples (except VOA and ONG) properly present	ved?	Yes		No		
9. Was preservative added to bottles?		Yes		No	V	NA 🗌
10.VOA vials have zero headspace?		Yes		No		No VOA Vials
11. Were any sample containers received broken?		Yes		No		
6 7						# of preserved bottles checked
12. Does paperwork match bottle labels?		Yes	×	No	Ц	for pH: (<2 or >12 unless noted
(Note discrepancies on chain of custody) 3. Are matrices correctly identified on Chain of Custody'		Yes	~	No		Adjusted?
4. Is it clear what analyses were requested?		Yes	V	No	-	
5. Were all holding times able to be met?		Yes	~	No	-	Checked by:
(If no, notify customer for authorization.)						
pecial Handling (if applicable)						
6. Was client notified of all discrepancies with this order	?	Yes		No		NA 🗹
Person Notified:	Date					
By Whom:	Via:	eMa	11	Phone	Fax	In Person
Regarding:					-	
Client Instructions:						
17. Additional remarks:						
18. Cooler Information						
Cooler No Temp °C Condition Seal Intact	Seal No Seal No	eal Da	te	Signed	By	1
1 3.8 Good Yes			1	5.8144	1	1
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