District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

	Pit, Closed-Loop System, Below-Grade Tank, or	
Propos	sed Alternative Method Permit or Closure Plan Application	
ine of action:	Dermit of a nit closed loop system below grade tank or proposed alternative meth	

Type of action:

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Modification to an existing permit

Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,

below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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.

Deperator: BP AMERICA PRODUCTION COMPANY OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: MARSROW GAS COM 001E
API Number: 3004524007 OCD Permit Number:
U/L or Qtr/Qtr Section Township 29.0N Range County: San Juan County
Center of Proposed Design: Latitude 36.72410 Longitude -108.09162 NAD: 1927 🗙 1983
Surface Owner: 🗷 Federal 🗌 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
2. OIL CONS DUC
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover FEB 2 2 2017
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID:B
Volume: 95.0 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 WALLED DOUBLE BOTTOMED
Liner type: Thickness mil HDPE PVC Other
5.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Form C-144

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)

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

Administrative Approvals 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:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. 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 material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🗌 Yes 🗌 No
 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA
 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 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

11. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 (Below-grade Tanks) - 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 Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. Closed-loop Systems Permit Application Attachment 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number:
13. 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 F 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriset requirements

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^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) more than two					
Disposal Facility Name: Disposal Facility Permit Number:						
Disposal Facility Name: Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser Ves (If yes, please provide the information below) No	vice and operations?					
 Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 	С					
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be					
Ground water is less than 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 between 50 and 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					
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						
 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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					
 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 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No					
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division						
 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					
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane 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 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Subsection F of 19.15.17.13 NMAC 						

Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Matchai Samping Analysis cases up to the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

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19. 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 belief.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only)- OCD Conditions (see attachment) OCD Representative Signature:
21. Closure Report (required within 60 days of closure completion): Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. X Closure Completion Date: 12/22/2016
22. Cleaning Matheda
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
^{23.} <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
25. Operator Closure Cartification:
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 Title: Field Environmental Coordinator
Signature:
e-mail address: steven.moskal@bp.com Telephone: 505-326-9497

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BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Marsrow Gas Com # 1E – Tank ID: B</u> <u>API #: 3004524007</u> Unit Letter L, Section 15, T29N, R12W

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 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 documented in the attached email.

- 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)

<u>All liquids and/or sludge within the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.</u>

- 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 (mg/Kg)	Sample Results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.074
TPH	US EPA Method SW-846 418.1	100	14
Chlorides	US EPA Method 300.0 or 4500B	250 or background	77

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 beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits. A field 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 reveal no evidence of a release has occurred.
- 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 reveal no evidence of a release has occurred. Area was backfilled with clean, earthen material and is within the active well pad.

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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.
- 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.
- 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 re-vegetation.
 BP will notify NMOCD when re-vegetation is successfully completed.
- 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.

<u>Closure report on C-144 form is included & contains a photo of the reclamation</u> <u>completion.</u>

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.

Tank ID: B

Form C-141

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

Oil Conservation Division 1220 South St. Francis Dr.

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	Initial Report	\boxtimes	Final Report
Name of Company BP America Production Company	Contact Steve Moskal			
Address 200 Energy Court, Farmington, NM 87401	Telephone No. (505) 326-9497			
Facility Name MARSROW GAS COM 001E	Facility Type Natural Gas Well			

Surface Owner Federal

Mineral Owner Federal

API No. 3004524007

Volume Recovered N/A

Date and Hour of Discovery N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	29N	12W	1,770	SOUTH	1,110	WEST	SAN JUAN

Latitude 36.72410 Longitude -108.09162

Volume of Release N/A

Date and Hour of Occurrence N/A

NATURE OF RELEASE

Was Immediate Notice Given? If YES, To Whom? Yes No X Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* NO INDICATION OF ANY INTEGRITY &/OR MAINTENANCE PROBLEMS WITH THE BGT, THEREFORE NO REMEDIAL ACTION NECESSARY. SAMPLING BENEATH BGT WAS CONDUCTED IMMEDIATELY AFTER REMOVAL. FIELD &

LABORATORY ANALYTICAL REPORTS ARE ATTACHED.

Type of Release NONE - BGT CONFIRMATION SAMPLING

Source of Release NOT APPLICABLE (N/A)

Describe Area Affected and Cleanup Action Taken.* NO CLEANUP ACTION NECESSARY. FINAL LABORATORY RESULTS SUPPORT CLOSURE OF THE BGT LOCATION.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Maskal	<u>OIL CONSERVATION DIVISION</u> Approved by Environmental Specialist:				
Title: Environmental Field Coordinator	Approval Date:	Expiration Date:			
E-mail Address: steven.moskal@bp.com Date: December 22, 2016 Phone: (505) 326-9497	Conditions of Approval:		Attached 🗌		

* Attach Additional Sheets If Necessary

BP Pit Close Notification - MARSROW GC 001E

From: Railsback, Farrah (CH2M HILL) <Farrah.Railsback@bp.com>

To: Smith, Cory, EMNRD, Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us) CC: jeffcblagg@aol.com, blagg_njv@yahoo.com, Moskal, Steven

> 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

December 13, 2016

.

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

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

MARSROW GAS COM 001E API 30-045-224007 (L) Section 15 – T29N – R12W 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 21bbl BGT and a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 16, 2016.

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

Sincerely,

Steven Moskal 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.

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 13, 2016

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: MARSROW GAS COM 001E API #: 3004524007

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 December 16, 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

CLIENT: BP	BLAGG P.O. BOX 87,	3	API #: 3004524007				
		505) 632-1199			(if applicble):	D	
FIELD REPORT:	(circle one): BGT CONFIRMATIO	N_/ RELEASE INVESTIG	ATION / OTHER:		PAGE #:	1 of	1
SITE INFORMATION	SITE NAME: MARS	SROW GC #1	E		DATE STARTED:	12/1	6/16
QUAD/UNIT: L SEC: 15 TWP:				NM	DATE FINISHED:		
1/4 -1/4/FOOTAGE: 1,770'S / 1,1	10'W NW/SW LEAS	E TYPE: FEDERAL	/ STATE / FEE / INDI	IAN	ENVIRONMENTAL		
LEASE #: NM048573	PROD. FORMATION: DK	CONTRACTOR: BF	A. SALAZAR		SPECIALIST(S):	N.	IV
REFERENCE POINT	WELL HEAD (W.H.) G	PS COORD .:	36.72438 X 108.0	9166	GL ELE	V.: 5,	595'
1) 95 BGT (SW/DB)	GPS COORD .:						
2)	GPS COORD.:		DIS	TANCE/BEAF	RING FROM W.H.:		
3)	GPS COORD .:		DIS	TANCE/BEAF	RING FROM W.H.:		
4)	GPS COORD.:		DIS	TANCE/BEAP	RING FROM W.H.:		
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S)	# OR LAB USED:	HALL				OVM READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5'	(95) SAMPLE DATE: 12/	16/16 SAMPLE TIME:	0935 LAB ANALYSIS:	8015	5B/8021B/300.0	(CI)	NA
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:				
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:				
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:				
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / CL	AY / GRAVEL / OTHER				
SOIL COLOR: DARK YEL			ION PLASTIC / SLIGHTLY PL	ASTIC / CO	HESIVE / MEDIUM PLAS	TIC / HIGHL	Y PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY			CLAYS & SILTS): SOFT			ARD	
CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLYMOIST/MOIST/W			YES NO EXPLANATION				
SAMPLE TYPE: GRAB (COMPOSITE) #		Personal State of Land State o	NG WETNESS: YES NO	EXPLAN	ATION -		
DISCOLORATION/STAINING OBSERVED: YES		1					
SITE OBSERVATION	S: LOST INTEGRITY OF EQUIPME	ENT: YES NO EXPLANAT	ON -				
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:		XPLANATION:					
OTHER: NMOCD OR BLM REPS. NOT PR		MATION SAMPLING.					
SOIL IMPACT DIMENSION ESTIMATION:		ft. X NA	ft. EXCAVAT	ONEST	IMATION (Cubic Yan	da) :	NA
	EAREST WATER SOURCE: >1,0				D TPH CLOSURE STD:	100	
SITE SKETCH	BGT Located : off on						
	BOT ECOLOGY ON TOTAL		alla circle. attache		Calib. Read. = NA		TU U.UL
то			N				A
W.H.					1		
		SEPARATOR			MISCELL.	NOT	E9
SEPARATOR				W	EF. #: P - 739		
SERVICION	*	FENCE				FVR2	
		PBGTL	DOMA		#:		
		T.B. ~ 5' B.G.	DOWN SLOPE		rmit date(s):	06/14	/10
			DIRECTION		D Appr. date(s):	10/19	/16
	WOODEN	BERM		Tan ID	ppm = parts per	million	
TO PROD.	R.W.			В	BGT Sidewalls Visik	\sim	
¥ TANK			X - S.P.I		BGT Sidewalls Visit		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIC T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW- SINGLE	OW-GRADE TANK LOCATION; SPD = SAMPL	E POINT DESIGNATION; R.W.	RETAINING WALL; NA - NOT		BGT Sidewalls Visit		
NOTES: GOOGLE EARTH IMAGE			12/16/16				

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Hall Environmental Analysis	Lab Order 1612941 Date Reported: 12/20/2016			
CLIENT: Blagg Engineering Project: Marsrow GC 1E		C		ple ID: 5PC-TB @ 5' (95) n Date: 12/16/2016 9:35:00 AM
Lab ID: 1612941-001	Matrix:	MEOH (SOIL)	Received	d Date: 12/17/2016 7:45:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: LGT
Chloride	77	30	mg/Kg	20 12/19/2016 11:07:22 AM 29269
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S		Analyst: TOM
Diesel Range Organics (DRO)	14	9.8	mg/Kg	1 12/19/2016 11:26:08 AM 29257
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1 12/19/2016 11:26:08 AM 29257
Surr: DNOP	86.4	70-130	%Rec	1 12/19/2016 11:26:08 AM 29257
EPA METHOD 8015D: GASOLINE RANG	E			Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1 12/19/2016 10:21:34 AM G39493
Surr: BFB	84.8	68.3-144	%Rec	1 12/19/2016 10:21:34 AM G39493
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	0.018	mg/Kg	1 12/19/2016 10:21:34 AM B39493
Toluene	ND	0.037	mg/Kg	1 12/19/2016 10:21:34 AM B39493
Ethylbenzene	ND	0.037	mg/Kg	1 12/19/2016 10:21:34 AM B39493
Xylenes, Total	ND	0.074	mg/Kg	1 12/19/2016 10:21:34 AM B39493
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1 12/19/2016 10:21:34 AM B39493

Analytical Report

*

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Marsrow GC 1E **Project:**

Sample ID MB-29269	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 29269	RunNo: 39495		
Prep Date: 12/19/2016	Analysis Date: 12/19/2016	SeqNo: 1236684	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-29269	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-29269 Client ID: LCSS		TestCode: EPA Method RunNo: 39495	300.0: Anions	
,	SampType: LCS		300.0: Anions Units: mg/Kg	
Client ID: LCSS	SampType: LCS Batch ID: 29269 Analysis Date: 12/19/2016	RunNo: 39495		RPDLimit Qual

Qualifiers:

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

Page 2 of 5

WO#: 1612941 20-Dec-16

WO#: 1612941 20-Dec-16

Client: Blagg Engineering **Project:** Marsrow GC 1E Sample ID LCS-29257 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 29257 RunNo: 39484 SeqNo: 1236591 Prep Date: 12/19/2016 Analysis Date: 12/19/2016 Units: mg/Kg %REC HighLimit %RPD **RPDLimit** Qual Analyte Result PQL SPK value SPK Ref Val LowLimit Diesel Range Organics (DRO) 48 10 50.00 0 96.7 63.8 116 Surr: DNOP 4.3 5.000 86.9 70 130 TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-29257 SampType: MBLK Batch ID: 29257 RunNo: 39484 Client ID: PBS SeqNo: 1236592 Units: mg/Kg Prep Date: 12/19/2016 Analysis Date: 12/19/2016 **RPDLimit** PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Analyte Result **Diesel Range Organics (DRO)** ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.2 10.00 82.3 70 130 Sample ID LCS-29233 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 29233 RunNo: 39485 Prep Date: 12/16/2016 Analysis Date: 12/19/2016 SeqNo: 1237666 Units: %Rec Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Analyte 5.000 Surr: DNOP 4.3 86.8 70 130 Sample ID MB-29233 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 29233 RunNo: 39485 SegNo: 1237667 Prep Date: 12/16/2016 Analysis Date: 12/19/2016 Units: %Rec %RPD **RPDLimit** SPK value SPK Ref Val %REC HighLimit Qual Analyte Result PQL LowLimit Surr: DNOP 8.9 10.00 89.0 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
- 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

Page 3 of 5

QC SUMMARY REPORT

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1612941

20-Dec-16

Client: Blagg Er Project: Marsrow	gineering GC 1E									
Sample ID RB	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: G3	9493	F	RunNo: 3	9493				
Prep Date:	Analysis D	ate: 12	2/19/2016	S	SeqNo: 1	237109	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.9	68.3	144			
Sample ID 2.5UG GRO LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: G3	9493	F	RunNo: 3	9493				
Prep Date:	Analysis D	ate: 12	2/19/2016	S	SeqNo: 1	237110	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.4	74.6	123			
Surr: BFB	950		1000		95.3	68.3	144			

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

Page 4 of 5

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc.	

Blagg Engineering

Marsrow GC 1E

Sample ID	RB	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch	h ID: B3	9493	RunNo: 39493						
Prep Date:		Analysis D	Date: 12	2/19/2016	5	SeqNo: 1	237116	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.99		1.000		99.5	80	120			
Sample ID	100NG BTEX LCS	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: B3	9493	F	RunNo: 3	9493				
Prep Date:		Analysis D	Date: 12	2/19/2016	S	SeqNo: 1	237117	Units: mg/k	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	1.000	0	97.8	75.2	115			
Toluene		0.96	0.050	1.000	0	96.3	80.7	112			
Ethylbenzene		0.95	0.050	1.000	0	95.4	78.9	117			
Kylenes, Total		2.9	0.10	3.000	0	96.3	79.2	115			
Surr: 4-Brom	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	1612941-001AMS	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Sample ID Client ID:	1612941-001AMS 5PC-TB @ 5' (95)		ype: MS			tCode: Ef		8021B: Vola	tiles		
·			h ID: B3	9493	F		9493	8021B: Volat			
Client ID:		Batch	h ID: B3	9493 2/19/2016	F	RunNo: 3	9493			RPDLimit	Qual
Client ID: Prep Date: Analyte		Batch Analysis D	n ID: B3 Date: 12	9493 2/19/2016	F	RunNo: 3 9 SeqNo: 1 2	9493 237118	Units: mg/K	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		Batch Analysis D Result	n ID: B3 Date: 12 PQL	9493 2/19/2016 SPK value	F S SPK Ref Val	RunNo: 39 SeqNo: 12 %REC	9493 237118 LowLimit	Units: mg/K HighLimit	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene		Batch Analysis D Result 0.68	n ID: B3 Date: 12 PQL 0.018	9493 2/19/2016 SPK value 0.7396	F SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 92.4	9493 237118 LowLimit 61.5	Units: mg/K HighLimit 138	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene		Batch Analysis D Result 0.68 0.62	Date: 12 PQL 0.018 0.037	9493 2/19/2016 SPK value 0.7396 0.7396	F S SPK Ref Val 0 0	RunNo: 39 SeqNo: 12 %REC 92.4 84.5	9493 237118 LowLimit 61.5 71.4	Units: mg/K HighLimit 138 127	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Batch Analysis D Result 0.68 0.62 0.59	Date: 12 PQL 0.018 0.037 0.037	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396	F S SPK Ref Val 0 0 0	RunNo: 39 SeqNo: 12 <u>%REC</u> 92.4 84.5 80.0	9493 237118 LowLimit 61.5 71.4 70.9	Units: mg/K HighLimit 138 127 132	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	5PC-TB @ 5' (95)	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74	Date: 12 PQL 0.018 0.037 0.037	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 2.219 0.7396	F SPK Ref Val 0 0 0 0	RunNo: 3 SeqNo: 1 %REC 92.4 84.5 80.0 80.0 101	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80	Units: mg/K HighLimit 138 127 132 123	Sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	5PC-TB @ 5' (95)	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74	Date: 12 PQL 0.018 0.037 0.037 0.074	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 2.219 0.7396	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 3 SeqNo: 1 %REC 92.4 84.5 80.0 80.0 101	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80 PA Method	Units: mg/K HighLimit 138 127 132 123 120	Sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	5PC-TB @ 5' (95) nofluorobenzene 1612941-001AMSD	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74	Date: 12 PQL 0.018 0.037 0.037 0.037 0.074 Type: MS n ID: B3	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 2.219 0.7396 50 9493	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 3 SeqNo: 1 %REC 92.4 84.5 80.0 80.0 101 tCode: EF	237118 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 2493	Units: mg/K HighLimit 138 127 132 123 120	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID:	5PC-TB @ 5' (95) nofluorobenzene 1612941-001AMSD	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74 0 SampT Batch Analysis D Result	Date: 12 PQL 0.018 0.037 0.037 0.074 Type: MS pype: MS pype: 12 PQL	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 2.219 0.7396 2.219 0.7396 50 9493 2/19/2016 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 3 SeqNo: 12 %REC 92.4 84.5 80.0 80.0 101 tCode: EF RunNo: 3 SeqNo: 12 %REC	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9493 237119 LowLimit	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit	Kg %RPD tiles Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID: Prep Date: Analyte	5PC-TB @ 5' (95) nofluorobenzene 1612941-001AMSD	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74 0 SampT Batch Analysis D	Date: 12 PQL 0.018 0.037 0.037 0.074 Type: MS p ID: B3 Date: 12	9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 2.219 0.7396 9493 2/19/2016 SPK value 0.7396	F SPK Ref Val 0 0 0 0 Tes F S	RunNo: 3 SeqNo: 12 <u>%REC</u> 92.4 84.5 80.0 80.0 101 tCode: EF RunNo: 3 SeqNo: 12 %REC 87.6	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9493 237119 LowLimit 61.5	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138	5 5.37	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID: Prep Date: Analyte Benzene	5PC-TB @ 5' (95) nofluorobenzene 1612941-001AMSD	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	Date: 12 PQL 0.018 0.037 0.037 0.074 Type: MS pype: MS pype: 12 PQL	9493 2/19/2016 SPK value 0.7396 0.7396 2.219 0.7396 2.219 0.7396 2/19/2016 SPK value 0.7396 0.7396 0.7396	F SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0	RunNo: 3 SeqNo: 12 92.4 84.5 80.0 80.0 101 tCode: EF RunNo: 3 SeqNo: 12 %REC 87.6 82.3	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80 2493 237119 LowLimit 61.5 71.4	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138 127	5.37 2.59	RPDLimit 20 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID: Prep Date: Analyte Benzene Toluene	5PC-TB @ 5' (95) nofluorobenzene 1612941-001AMSD	Batch Analysis D Result 0.68 0.62 0.59 1.8 0.74 0.74 0.74 0.74 0.74 0.74	n ID: B3 Date: 12 PQL 0.018 0.037 0.037 0.074 0.074 7 ype: MS n ID: B3 Date: 12 PQL 0.018	9493 2/19/2016 SPK value 0.7396 0.7396 2.219 0.7396 30 9493 2/19/2016 SPK value 0.7396 0.7396 0.7396 0.7396 0.7396	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	RunNo: 3 SeqNo: 12 <u>%REC</u> 92.4 84.5 80.0 80.0 101 tCode: EF RunNo: 3 SeqNo: 12 %REC 87.6	9493 237118 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9493 237119 LowLimit 61.5 71.4 70.9	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138	5.37 2.59 1.80	RPDLimit 20 20 20	
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Qualifiers:

Client:

Project:

- * 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

Page 5 of 5

WO#: 1612941 20-Dec-16

	oin c	f Cur	tody Pocord	Turn-Around	Time:															
Client:		A	/ BP AMERICA	Standard		SAME DAY													_	
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			FIELD, NM 87413			-		Te	1. 50	5-34	5-39		Fax				7			
Phone #:		(505) 63	2-1199	Droiget Mana				1				Ana	lysis	Ree	ques	st				
email or F QA/QC Pa	ckage:		Level 4 (Full Validation)	Project Manag	NELSON VI	ELEZ	0218)	s only)	/ MRO)			2)	PO4, SO4)	PCB's			ter - 300.1)		U	
	,	Other		Sampler: On'Ice	NELSON VI	🗆 No	+ TMB's (8021B)	+ TPH (Ga:	RO / DRO	418.1)	504.1)	82/0SIN	NO ₃ , NO ₂ ,	les / 8082		(OA)	300.0 / wa		ite sample	or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 82/05IM5) RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water	Grab sample	5 pt. composite	Air Bubbles (Y
12/16/16	0935	SOIL	5PC - TB @ 5 ' (95)	4 oz 1	Cool	-001	۷		۷								V		۷	
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Date:	Time: 1800	Relinquish	ed by:	Received by:	AF 12	Date Time	Refe	erene			(ONE) P - 7									

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If necessary, sample's 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 Name: BLAGG Work Order Number: 1612941 RepNo: 1 Received by/date: IZ_IT? IL	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com	Albuqi TEL: 505-345-3975 Fi	HALL ENVIRONMENTAL ANALYSIS LABORATORY
Received by/date: IZ	.)	1	Client Name: BLAGG
Completed By: Lindsay Margin 12/17/2016 8:16:11 AM July 11/20 Reviewed By: A- 12/19/16 July 11/20 No No Not Present No 1. Custody seals intact on sample bottles? Yes No No Not Present Not Present Not Present 2. Is Chain of Custody complete? Yes No No Not Present Not Present 3. How was the sample delivered? Courier Courier No NA No 4. Was an attempt made to cool the samples? Yes No NA No NA 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA No 7. Sufficient sample volume for indicated test(s)? Yes No NA 9. Was preservative added to bottles? Yes No NA 10. VOA vials have zero headspace? Yes No No Adjusted? 11. Were any sample containers received broken? Yes No Adjusted? 12. Does papervoit match bottle labels? Yes No Adjusted?			Received by/date:
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BP AMERICA PRODUCTION COMPANY

MARSROW GAS COM 001E API 3004524007 LEASE NMNM048573 1770 FSL 1100 FWL (L) SEC 15 T29N R12W San Juan County ELEV 5595 LAT 36° 43' 27.984" LONG 108° 5' 30.264"

