OIL CONS. DIV DIST. 3

SEP 15 2017 Form C-144 Revised June 6, 2013

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

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

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.

Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: Mansfield #1A
API Number: 3004522026 OCD Permit Number:
U/L or Qtr/Qtr A Section 19 Township 30N Range 9W County: San Juan
Center of Proposed Design: Latitude36.80221 Longitude107.81479 NAD: □1927 ⋈ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Volume: 95 bbl Type of fluid: Produced water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other <u>Single wall/ Double bottom; sidewalls not visible</u>
Liner type: Thicknessmil
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.



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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
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	
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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	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							
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	numents are						
II. Multi Wall Fluid Management Bit Cheablist. Subsection D of 10.15.17.0 NIMAC							
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:							
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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
### Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F 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	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each string criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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
16.	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan of 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 cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan.(only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number:	25/2017
OCD Approval: Permit Application (including closure plan) Closure Plan.(only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number:	25/2017
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	
OCD Approval: Permit Application (including closure plan) Closure Plan.(only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	
OCD Approval: Permit Application (including closure plan) Closure Plan.(only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: OCD Permit Number: 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.	t complete this

Operator Closure Certification:	
	bmitted with this closure report is true, accurate and complete to the best of my knowledge and pplicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Name (trint). Lim Garriaros	Title. Tield Environmental Coordinator
Signature:UTIN gwifalos	Date: September 14, 2017
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Mansfield #1A API No. 3004522026 Unit Letter A, Section 19, T30N, R9W

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.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.080
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<49
Chlorides	US EPA Method 300.0 or 4500B	620	< 30

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report and laboratory reports are attached. During BGT removal a very small amount of soil impacts (<1 cubic yards) were discovered. NMOCD witnessed and recommended diluting with clean soils within excavation and to leave in place.

- 7. BP shall notify the division District III office of its results on form C-141. C-141 is attached.
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

 Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

 Sampling results indicate a release has not occurred. Attached is a laboratory report and field report.
- 10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set on top. The location will be reclaimed once the well is plugged and abandoned.

- 11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

 The area has been backfilled and a 105 BBL shallow low profile above-grade tank
- set on top. The location will be reclaimed once the well is plugged and abandoned.12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other
- Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set on top. The location will be reclaimed once the well is plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set on top. The location will be reclaimed once the well is plugged and abandoned.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set on top. The location will be reclaimed once the well is plugged and abandoned.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

 BP did not meet the 60 closure completion requirement due to an error in internal tracking. Closure report on C-144 form is included including photos of reclamation completion.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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

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

Form C-141 Revised August 8, 2011

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

			Kel	ease Notifi	catio	on and Co	orrective A	ction				
						OPERA	ГOR		Initial	al Report	\boxtimes	Final Report
Name of Co	mpany: BI	9				Contact: Erin Garifalos						
		Court, Farmi	ngton, N	M 87401		Telephone No.: 832-609-7048						
Facility Nar	ne: Mansfi	eld #1A				Facility Type: Natural gas well						
Surface Ow	ner: Fee			Mineral (Owner	: Fee			API No	. 30045220)26	
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	_	h/South Line	Feet from the	East/W	est Line	County: Sa	an Juan	
A	19	30N	9W	815	Nort	h	850	East			-	
			La	titude 36.80)221°	Longitu	de107.814	179°				
				NAT	TURE	E OF REL	EASE					
Type of Rele	ase: none			21222			Release: unknow	vn	Volume I	Recovered: N	J/A	
		grade tank –	95 bbl				Hour of Occurrence	e:	Date and	Hour of Dis	covery:	: none
Was Immedi	ate Notice G	hiven?				none If YES, To	Whom?					
			Yes 🗵	No Not R	equired							
By Whom?					Date and I							
Was a Watercourse Reached? ☐ Yes ☒ No					If YES, Vo	olume Impacting t	the Wate	rcourse.				
If a Watercon	reco vivos Ime											
If a watercoo	irse was iiii	pacieu, Descri	be rully.									
Describe Co.	on of Duoble	am and Dama	dial Astic	n Talson * Commi	na of t	ha sail hanaatk	the BGT was do	no durin	a wamayal	Soil analys	ia roaul	tod for
							y results are attac		g removai.	Soft allarys	is resur	160 101
7 " 1	1.00 . 1	1.01	m. 1	# 3 T		D' 111		. 1	1.	1		
Describe Are	a Affected a	and Cleanup A	Action Tal	cen.* No action n	ecessar	y. Final labor	atory analysis dete	ermined	no remedi	al action is r	equired	
I hereby certi	fy that the in	nformation gi	ven above	e is true and comp	olete to	the best of my	knowledge and u	ınderstan	d that purs	suant to NM	OCD rı	iles and
regulations a	ll operators	are required to	report ar	nd/or file certain	release	notifications a	nd perform correc	ctive acti	ons for rel	eases which	may en	danger
							arked as "Final Roon that pose a thro					
							e the operator of					
500 00 000		vs and/or regu										
						OIL CONSERVATION DIVISION						
Signature:	run gari	Galos										
Signature: Utin garifalas					Approved by	Environmental S	pecialist	:				
Printed Name	e: Erin Garif	alos										
Title: Field E	nvironmenta	al Coordinato	r			Approval Da	te:	E	Expiration	Date:		
E-mail Addre	ess: erin.gari	falos@bp.com	n			Conditions o	f Approval:					
						50110110110	- Ph. c. mi			Attached		
Date: Septen	nber 14, 201		Pho	one: 832-609-704	8							

^{*} Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

June 23, 2017

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank

Well Name: MANSFIELD 001A

API #: 3004522026

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 June 26, 2017. 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

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Friday, June 23, 2017 6:47 AM

To:

'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)'

Cc:

'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven

Subject:

BP Pit Close Notification - MANSFIELD 001A

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

June 23, 2017

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

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

MANSFIELD 001A API 30-045-22026 (A) Section 19 – T30N – R09W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around June 26, 2017.

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 Buckley BGT Project Support 970-946-9199 -cell

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

CLIENT: BP	P.O. BOX 87, BI	NGINEERING, IN LOOMFIELD, NN 5) 632-1199		API #: 30045220 TANK ID (if applicble): A)26
FIELD REPORT:	(circle one): BGT CONFIRMATION /		OTHER:	PAGE#: 1 of	_1_
SITE INFORMATION	: SITE NAME: MANSF	IELD #1A		DATE STARTED: 06/26	6/17
QUAD/UNIT: A SEC: 19 TWP:	30N RNG: 9W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 815'N / 850'I		YPE: FEDERAL STATE /	FEE / INDIAN	ENVIRONMENTAL	
	PROD. FORMATION: FT/MV CO	CTDIVE		SPECIALIST(S): NJ	V
REFERENCE POINT	: WELL HEAD (W.H.) GPS	COORD.: 36.8022	4 X 107.81517	GL ELEV.: 6,1	
95 BGT (SW/DB) - A	GPS COORD.: 36.	80221 X 107.81479	DISTANCE/BEA	RING FROM W.H.:116.5', S8	6.5E
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # O	R LAB USED: HALL			OVM READING
1) SAMPLE ID: 5PC - TB @ 5' 2) SAMPLE ID: 1 @ 3' (95' 3) SAMPLE ID: 2 @ 6' (95' 4) SAMPLE ID: 5) SAMPLE ID:	(95) SAMPLE DATE: 06/26 SAMPLE DATE: 06/26	/17 SAMPLETIME: 1212 /17 SAMPLETIME: 1213	LAB ANALYSIS: 801	5B/8021B/300.0 (CI) 5B/8021B/300.0 (CI) 5B/8021B/300.0 (CI)	NA NA NA
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND S	SILT / SILTY CLAY / CLAY / GRAVE	EL / OTHER		
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB COMPOSITE # DISCOLORATION/STAINING OBSERVED: YES N	DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED FOR THE SATURATED	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO ANY AREAS DISPLAYING WETNES K GRAY BETWEEN 3 - 5 FT.	EXPLANATION - DISC SS: YES NO EXPLA	NATION -	
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: [OTHER: NMOCD PRESENT TO WITNESS SIDEWALLS. GRAB SAMPLE FROM EXCAVATION DIMENSION ESTIMATION:	DAND/OR OCCURRED: YES NO EXPLOYES NO EXPLANATION - 105 BBL CONFIRMATION SAMPLING. VE 95 BGT SE/S AREA @ 6 FT. APPE 2 ft. X 2	ANATION: DISCOLORED SOIL SHALLOW LOW PROFILE ERY SMALL AMOUNT OF IM ARS TO BE NOT IMPACTED ft. X 2 ft.	ABOVE-GRADE TA PACTED SOILS AL O (discoloration & h EXCAVATION ES	RBON ODOR. NK TO BE SET ATOP BGT LC ONG SE & E QUADRANT OF ydrocarbon odor not evident TIMATION (Cubic Yards):	95 BGT). < 1
	EAREST WATER SOURCE: >1,000'		<1,000' NMOO	CD TPH CLOSURE STD: 1,000) ppm
SITE SKETCH	BGT Located: off / on site		A OVIV	CALIB, READ. = NA ppm	NA NA
W.H. ⊕		FENCE	v	VO:	
W.n. ⊕	SEPARATOR X X X X)	R	REF#: P-797	
		BERM	V	ID: VHIXONEVB2	
66	MPRESSOR -		<u> P</u>	J#:	
	WII RESSOR	(95)-A PBGTL	<u>P</u>	ermit date(s): 06/14/	
		T.B. ~ 5'		OCD Appr. date(s): 01/26/	17
-		B.G.	II	ppm = parts per million	
			A	BGT Sidewalls Visible: Y / N)
)	(- S.P.D.	BGT Sidewalls Visible: Y / N	
	ON DEPRESSION; B.G. = BELOW GRADE; B = BE OWAGRADE TANK LOCATION; SPD = SAMPLE PO E WALL; DW - DOUBLE WALL; SB - SINGLE BOTT	OINT DESIGNATION; R.W. = RETAINING	W.H. = WELL HEAD; WALL; NA - NOT	BGT Sidewalls Visible: Y / N Magnetic declination: 10°	E
NOTES: GOOGLE EARTH IMAG		ONSITE: 06/26/	17		

Analytical Report

Lab Order 1706E08

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: MANSFIELD #1A

Collection Date: 6/26/2017 12:12:00 PM

Lab ID: 1706E08-001

Matrix: SOIL

Received Date: 6/27/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SRM
Chloride	ND	30	mg/Kg	20	6/27/2017 11:58:34 AM	32511
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	3			Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/27/2017 1:19:45 PM	32505
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/27/2017 1:19:45 PM	32505
Surr: DNOP	108	70-130	%Rec	1	6/27/2017 1:19:45 PM	32505
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/27/2017 11:17:31 AM	32494
Surr: BFB	97.3	54-150	%Rec	1	6/27/2017 11:17:31 AM	32494
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.020	mg/Kg	1	6/27/2017 11:17:31 AM	32494
Toluene	ND	0.040	mg/Kg	1	6/27/2017 11:17:31 AM	32494
Ethylbenzene	ND	0.040	mg/Kg	1	6/27/2017 11:17:31 AM	32494
Xylenes, Total	ND	0.080	mg/Kg	1	6/27/2017 11:17:31 AM	32494
Surr: 4-Bromofluorobenzene	126	66.6-132	%Rec	1	6/27/2017 11:17:31 AM	32494

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1706E03

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1 @ 3' (95)

Project: MANSFIELD 1A

Collection Date: 6/26/2017 12:13:00 PM

Lab ID: 1706E03-001

Matrix: MEOH (SOIL) Received Date: 6/27/2017 8:45:00 AM

Analyses	Result	PQL (Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	30		mg/Kg	20 6/27/2017 11:33:45 AM 32511
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst: JME
Diesel Range Organics (DRO)	800	92		mg/Kg	10 6/27/2017 11:27:51 AM 32505
Motor Oil Range Organics (MRO)	780	460		mg/Kg	10 6/27/2017 11:27:51 AM 32505
Surr: DNOP	0	70-130	S	%Rec	10 6/27/2017 11:27:51 AM 32505
EPA METHOD 8015D: GASOLINE RANGI					Analyst: NSB
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5 6/27/2017 10:29:38 AM 32494
Surr: BFB	94.5	54-150		%Rec	5 6/27/2017 10:29:38 AM 32494
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.081		mg/Kg	5 6/27/2017 10:29:38 AM 32494
Toluene	ND	0.16		mg/Kg	5 6/27/2017 10:29:38 AM 32494
Ethylbenzene	ND	0.16		mg/Kg	5 6/27/2017 10:29:38 AM 32494
Xylenes, Total	ND	0.32		mg/Kg	5 6/27/2017 10:29:38 AM 32494
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	5 6/27/2017 10:29:38 AM 32494

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1706E03

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 2 @ 6' (95)

Project: MANSFIELD 1A Collection Date: 6/26/2017 12:15:00 PM Lab ID: 1706E03-002 Matrix: MEOH (SOIL) Received Date: 6/27/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SRM
Chloride	ND	30	mg/Kg	20	6/27/2017 11:46:10 AM	32511
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analyst	JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/27/2017 12:13:34 PM	32505
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/27/2017 12:13:34 PM	32505
Surr: DNOP	108	70-130	%Rec	1	6/27/2017 12:13:34 PM	32505
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/27/2017 10:53:34 AM	32494
Surr: BFB	97.8	54-150	%Rec	1	6/27/2017 10:53:34 AM	32494
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	6/27/2017 10:53:34 AM	32494
Toluene	ND	0.040	mg/Kg	1	6/27/2017 10:53:34 AM	32494
Ethylbenzene	ND	0.040	mg/Kg	1	6/27/2017 10:53:34 AM	32494
Xylenes, Total	ND	0.079	mg/Kg	1	6/27/2017 10:53:34 AM	32494
Surr: 4-Bromofluorobenzene	127	66.6-132	%Rec	1	6/27/2017 10:53:34 AM	32494

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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email or F	ax#:			Project Mana	ger:								4				F				
QA/QC Pa			Level 4 (Full Validation)		NELSON V	ELEZ	(8021B)	+ TPH (Gas only)	/ MRO)		(SI		PO4,50	8082 PCB's			water - 300.1)			Ф	
Accredita	tion:			Sampler:	NELSON V	ELEZ ny	WBFs (8	(Ga	/ DRO	1	504.1) 8270SIMS)		02,	3082			/ wa			dm	
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO MOISEO8	BTEX +-MF	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1) PAH (8310 or 82705)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -	. 7-	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
6/26/17	1212	SOIL	5PC - TB @ 5 ' (95) - A	4 oz 1	Cool	-00	٧		٧								٧			٧	
									-												
926/1.1	1240	SOIL	5PG TD @ (1(21) D	402. 1	Cool	602	V		V			-					V			4	
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Date:	1840	Relinquishe	is the labeles	Received by:	hm	Date Time 06/27/17 0345	Ref	erend			ONEVI P - 797										
	If necessary,	samples sub	mitted to Half Environmental may be su	bcontracted to other	accredited laboratoric	es. This serves as notice of	of this	possib	ility. A	Any sub	contrac	led dat	a will I	be cle	arly no	tated	on the	analyt	ical re	port.	

Ch	Chain-of-Custody Record				Turn-Around	Time:	SAME					IAI		E	NIM	TE	20	R. I	ME	N	TA		
Client:	BLAG	G ENGR.	/ BP AMERICA		☐ Standard	☑ Rush _	DAY			H										AT			
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Phone #:		(505) 63	2-1199		1								-		ysis								
email or F	ax#:				Project Mana	ger:									4				(F)				
QA/QC Pac	•		Level 4 (Full Va	lidation)		NELSON V	ELEZ	(8021B)	(djuo	/ MRO)			(S)		004,50	PCB's			ter - 300.1)			d)	
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□ NELAP)	□ Other			On loc	X Yes			+ TPH (Gas	0/0	418.	504.	3270		03,1	3 / S		(A)	300.0			e sa	N
□ EDD (T	EDD (Type)				Sample Temp	gaille 🙏		1	BE +	(GR	pou	pou	00.8	etals	CI,N	cide	(A)	i-VC	- Jil		e	osit	30
Date	Time	Matrix	Sample Requ	est ID	Container Type and # Preservative Type 1706E03				BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 82705IMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	# pt. composite sample	Air Bubbles (Y or N)
6/26/17	1213	2015	De31 (95)	408-1	COOL	-001	V		V									Ž		V	44	
																				,			
6/26/17	1235	2017	(2)C6' (45)	4021	COOL	-002	1		V									V		V		
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e/26/17 1428 Flent					Musta	Waller	Le 10 1428	Remarks: BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE; CONTACT: STEVE MOSKAL															
Date:	Time:	Relinquish	ed by:		Received by:		Date Time 0d/27/17 0845			VID:	VRIT	CIW	FEC										
24/17	1840	semples sub	mitted to Hall Environment	al may be su		0		1		ce #		P - T		d data	will b	e clea	rly no	tated o	on the	analví	ical re	port.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706E08

30-Jun-17

Client: Project: Blagg Engineering MANSFIELD #1A

Sample ID MB-32511

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 32511

PQL

Batch ID: 32511

RunNo: 43824

Prep Date: 6/27/2017

Sample ID LCS-32511

Analysis Date: 6/27/2017

Result

SeqNo: 1382188

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

ND 1.5

TestCode: EPA Method 300.0: Anions SampType: Ics

RunNo: 43824

SeqNo: 1382189

Units: mg/Kg

Prep Date:

Client ID:

6/27/2017

LCSS

Analysis Date: 6/27/2017

%RPD

RPDLimit

Qual

Analyte

Result

SPK value SPK Ref Val

%REC 92.7

90

HighLimit

1.5

PQL

14

0

LowLimit

Chloride

15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit POL

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit RL Sample container temperature is out of limit as specified Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

45

5.0

10

50.00

5.000

WO#:

1706E08

30-Jun-17

Client:

Blagg Engineering

Project:

Diesel Range Organics (DRO)

Surr: DNOP

MANSFIELD #1A

Sample ID MB-32505	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 32505	RunNo: 43810
Prep Date: 6/27/2017	Analysis Date: 6/27/2017	SeqNo: 1380557 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	11 10.00	112 70 130
Sample ID LCS-32505	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 32505	RunNo: 43810
Prep Date: 6/27/2017	Analysis Date: 6/27/2017	SeqNo: 1380558 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

0

89.9

100

73.2

70

114

130

Qualifiers:

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E08**

30-Jun-17

Client: Project:

Prep Date:

Client ID:

Prep Date:

Blagg Engineering

Sample ID MB-32494
Client ID: PBS

6/26/2017

LCSS

6/26/2017

MANSFIELD #1A

SampType: MBLK
Batch ID: 32494

TestCode: **EPA Method 8015D: Gasoline Range**RunNo: **43822**

Analysis Date: 6/27/2017

SeqNo: 1381510 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 940

Sample ID LCS-32494 SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

54

Batch ID: 32494

Analysis Date: 6/27/2017

RunNo: **43822** SeqNo: **1381511**

942

Units: mg/Kg

%RPD

RPDLimit

Qual

150

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Analyte 5.0 25.00 Gasoline Range Organics (GRO) 23 0 91.2 76.4 125 Surr: BFB 1100 1000 107 54 150

1000

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E08**

30-Jun-17

Client: Blagg Engineering
Project: MANSFIELD #1A

Sample ID MB-32494	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 32	494	F	RunNo: 4	3822				
Prep Date: 6/26/2017	Analysis D	ate: 6/	27/2017	8	SeqNo: 1	381548	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-Bromofluorobenzene	1.2		1.000		118	66.6	132			

Sample ID LCS-32494	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 32	494	F	RunNo: 4	3822				
Prep Date: 6/26/2017	Analysis D	ate: 6/	27/2017	8	SeqNo: 1	381549	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.5	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		131	66.6	132			

Qualifiers:

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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	BLAGG	Work Order Number:	1706E	808		RcptN	o: 1
Received By:	Anne Thorne	6/27/2017 8:45:00 AM			ame Sha	_	
Completed By:	Anne Thome	6/27/2017 9:27:00 AM			1 1		
Reviewed By:	051	6127/17			Ume Sta		
Neviewed by.		012111					
Chain of Cust	ody						
1. Custody seals	s intact on sample bottles?		Yes		No 🗆	Not Present ✓]
2. Is Chain of Co	ustody complete?		Yes	V	No 🗌	Not Present	
3. How was the	sample delivered?		Couri	er			
Log In							
	npt made to cool the samples	?	Yes	✓	No 🗆	NA []
					_		
Were all sam	ples received at a temperatur	e of >0° C to 6.0°C	Yes	Y	No 🔲	NA 🗌	
6. Sample(s) in	proper container(s)?		Yes	V	No 🗔		
7. Sufficient san	nple volume for indicated test	(s)?	Yes	✓	No 🗌		
8. Are samples	(except VOA and ONG) prope	rly preserved?	Yes	V	No 🗌		
9. Was preserva	ative added to bottles?		Yes		No 🗹	NA 🗆	
10 VOA vials hav	ve zero headspace?		Yes		No 🗆	No VOA Vials ✓	
	mple containers received brok	en?	Yes		No 🗸		1.
11. Viole any oan	inplo comunicio received bron					# of preserved bottles checked	
12. Does paperwe	ork match bottle labels?		Yes	✓	No 🗆	for pH:	
(Note discrepa	ancies on chain of custody)			_		,	2 or >12 unless noted)
	correctly identified on Chain o	f Custody?	Yes		No 🗀	Adjusted?	
	it analyses were requested?			V	No 🗆	Charles d bur	
	ing times able to be met? ustomer for authorization.)		Yes	V	No 🗔	Checked by:	
(ii iio, iiuuiy o							
Special Handli	ing (if applicable)						
16. Was client no	tified of all discrepancies with	this order?	Yes		No 🗆	NA 🗹	
Person	Notified:	Date			And the Control of th		
By Who	m:	Via: [eMai	l 🔲 Pho	one 🔲 Fax	In Person	
Regardi	ng:						
Client In	structions:						
17. Additional rer	marks:						and the second
18. Cooler Infor	mation						
Cooler No		eal Intact Seal No	Seal Dat	e S	ligned By	J	
1	2.7 Good Ye	s			gy con man i han gymrain gymrain had i na hag nig y gyga]	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706E03

30-Jun-17

Client: Project: Blagg Engineering **MANSFIELD 1A**

Sample ID MB-32511

Sample ID LCS-32511

LCSS

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 32511

PQL

RunNo: 43824 SeqNo: 1382188

Units: mg/Kg

Analyte

Client ID:

Prep Date:

Prep Date:

6/27/2017

Analysis Date: 6/27/2017

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

Chloride

Result

ND

TestCode: EPA Method 300.0: Anions

SampType: Ics

Batch ID: 32511

1.5

RunNo: 43824 SeqNo: 1382189

Units: mg/Kg

Analyte

6/27/2017

Analysis Date: 6/27/2017

SPK value SPK Ref Val

92.7

%REC

HighLimit %RPD **RPDLimit** Qual

Chloride

14

15.00

90

110

Qualifiers:

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

Value above quantitation range

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E03**

30-Jun-17

Client:

Blagg Engineering

Project:

MANSFIELD 1A

rroject: MANSI	TELD IA									
Sample ID MB-32505	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 32	505	F	RunNo: 4	3810				
Prep Date: 6/27/2017	Analysis Da	ate: 6/	27/2017	S	SeqNo: 1	380557	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	70	130			
Sample ID LCS-32505	SampTy	pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 32	505	F	RunNo: 4	3810				
Prep Date: 6/27/2017	Analysis Da	ate: 6/	27/2017	S	SeqNo: 1	380558	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	73.2	114			
Surr: DNOP	5.0		5.000		100	70	130			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706E03

30-Jun-17

Client:

Blagg Engineering

Project:

MANSFIELD 1A

Sample ID MB-32494	SampT	/ре: МЕ	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 32	494	R	unNo: 4	3822				
Prep Date: 6/26/2017	Analysis Da	ate: 6/	27/2017	S	eqNo: 1	381510	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	940		1000		94.2	54	150			

Sample ID LCS-32494	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: 32	494	R	RunNo: 4	3822				
Prep Date: 6/26/2017	Analysis Da	te: 6/	27/2017	S	SeqNo: 1	381511	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	91.2	76.4	125			
Surr: BFB	1100		1000		107	54	150			

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706E03

Qual

Qual

HighLimit

%RPD

RPDLimit

30-Jun-17

Client: Blagg Engineering Project: **MANSFIELD 1A**

Sample ID MB-32494 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Batch ID: 32494 RunNo: 43822 Client ID:

Prep Date: 6/26/2017 Analysis Date: 6/27/2017 SeqNo: 1381548 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit Analyte **PQL** ND 0.025 Benzene 0.050 Toluene ND ND 0.050 Ethylbenzene ND 0.10 Xylenes, Total

Surr: 4-Bromofluorobenzene 1.2 1 000 118 66 6 132

Sample ID LCS-32494 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 32494 RunNo: 43822 Prep Date: 6/26/2017 Analysis Date: 6/27/2017 SeqNo: 1381549 Units: mg/Kg %RPD SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte Result PQL LowLimit

Benzene 1.1 0.025 1.000 0 112 80 120 1.1 0.050 1.000 0 112 80 120 Toluene 1.000 Λ 112 80 120 Ethylbenzene 1.1 0.050 Xylenes, Total 3.5 0.10 3.000 0 115 80 120 Surr: 4-Bromofluorobenzene 1.3 1.000 131 66.6 132

Sample ID 1706E03-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 32494 RunNo: 43822 1@3'(95)

Prep Date: Analysis Date: 6/27/2017 SeqNo: 1381550 Units: mg/Kg

SPK Ref Val %RPD **RPDLimit** Analyte Result PQL SPK value %REC LowLimit HighLimit Qual 0.081 3.230 0 106 61.5 138 Benzene 3.4 Toluene 3.5 0.16 3.230 0 107 71.4 127 Ethylbenzene 3.5 0.16 3.230 0 108 70.9 132 11 0.32 9.690 0 109 76 2 123 Xylenes, Total Surr: 4-Bromofluorobenzene 40 3.230 124 66.6 132

TestCode: EPA Method 8021B: Volatiles Sample ID 1706E03-001AMSD SampType: MSD Batch ID: 32494 RunNo: 43822 Client ID: 1@3'(95) Prep Date: Analysis Date: 6/27/2017 SeqNo: 1381551 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 3.3 0.081 3.230 0 102 61.5 138 3.73 20 3.230 0 103 127 20 Toluene 3.3 0.16 71.4 3.78 3.230 0 104 70.9 132 4.33 20 Ethylbenzene 3.4 0.16 Xylenes, Total 10 0.32 9.690 0 105 76.2 123 4.17 20 Surr: 4-Bromofluorobenzene 4.0 3.230 125 66.6 132 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 6 of 6

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	BLAGG	Work Order Number:	1706E03		RcptNo:	1
Received By:	Erin Melendrez	6/27/2017 8:45:00 AM		una.	~	
Completed By:	Sophia Campuzano	6/27/2017 9:01:49 AM		Sophia Corpor-	_	
Reviewed By:	05	6/27/17		07		
Noviewed by.	007	0.2007				
Chain of Cus	tody					
1. Custody sea	als intact on sample bottles?		Yes	No 🗆	Not Present ✓	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the samples	?	Yes 🗹	No 🗆	NA 🗆	
5. Were all san	mples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	mple volume for indicated test((s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG) prope	rly preserved?	Yes 🗹	No 🗆		
9. Was preserv	vative added to bottles?		Yes	No 🗹	NA 🗆	
10 VOA viels he	ave zero headspace?		Yes	No 🗆	No VOA Vials ✓	
	ample containers received brok	en?	Yes 🗆	No 🗹	110 1011110	
11. Word any se	ample containers received brok		100		# of preserved bottles checked	
12. Does paperv	work match bottle labels?		Yes 🗸	No 🗆	for pH:	
	pancles on chain of custody)		🗖		(<2 or	>12 unless noted)
	correctly identified on Chain o	f Custody?	Yes ✓ Yes ✓	No 🗆	-	
	at analyses were requested? ding times able to be met?		Yes 🗹	No 🗆	Checked by:	
	customer for authorization.)		100 00			
Special Hand	lling (if applicable)					
16. Was client ne	otified of all discrepancies with	this order?	Yes	No 🗆	NA 🗹	
Person	Notified:	Date		MARKUMANA MINING MARKAN		
By Wh	om:	Via: [eMail .	Phone Fax	☐ In Person	
Regard	ding:					
Client	Instructions:					
17. Additional re	emarks:					
18. Cooler Info						
Cooler No			Seal Date	Signed By		
1	2.7 Good Ye	8				



