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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or	
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 tan	k
or proposed alternative method	K,
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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations of	or the or ordinances.
Operator: BP America Production Company OGRID #: 778 OIL CONS DIV D	10-
Operator: BP America Production Company Address: 200 Energy Court, Farmington, NM 87401	ST. 3
Facility or well name: FLORANCE H 037 NOV 2 8 201	7
API Number: 3004560189 OCD Permit Number: U/L or Qtr/Qtr H Section 06 Township 30N Range 08W County: San Juan	
Center of Proposed Design: Latitude 36.842885 Longitude -107.711479 NAD83	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
2.	
Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no	0
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
☐ String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x I	D
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B	
Volume: 21bbl Type of fluid: Produced Water	
Tank Construction material: Steel	
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single wall/ Double bottom; sidewalls not visible	
Liner type: Thicknessmil	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of a	pproval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospit	al,
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										
8.										
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.										
9.										
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source									
General siting										
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells										
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells										
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										
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)										
**\frac{\text{Variances and Exceptions:}}{\text{Ustifications and Gr demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.}{\text{Please check a box if one or more of the following is requested, if not leave blank:} \text{Variance(s):} \text{Requests must be submitted to the appropriate division district for consideration of approval.} \text{Exception(s):} \text{Requests must be submitted to the Banta Fe Environmental Bureau office for consideration of approval.} \text{Stiting Criteria (regarding permitting):} 19.15.17.10 NMAC \text{Instructions:} \text{The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of access material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. \text{NM Office of the State Engineer - iWATERS database search;} \text{USGS;} \text{Data obtained from nearby wells} \qquad \qquad \q										
application.	☐ Yes ☐ No									
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 										
watering purposes, or 300 feet of any other fresh water well or spring, in existence at the time of the initial application.	☐ Yes ☐ No									

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
Temporary Pit Non-low chloride drilling fluid											
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site											
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image											
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site											
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
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											
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No										
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No										
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No										
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 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 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC											
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	.15.17.9 NMAC										
Treviously Approved Design (attach copy of design) At Frantoct.											

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are									
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit 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										
14.										
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC										
15.										
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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									
 Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 										
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												
Within a 100-year floodplain.	Yes No											
- FEMA map	Yes No											
On-Site 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. 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 19.15.17.11 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 19.15.17.13 NMAC 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												
17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.											
Name (Print): Title:												
Signature: Date:												
e-mail address:Telephone:												
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number:	2/2017											
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 9/29/2017												
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)											
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please incommark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable)	dicate, by a check											

Operator Closure Certification:	
I hereby certify that the information and attachments submitte	ed with this closure report is true, accurate and complete to the best of my knowledge and able closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin garifalos	Date: November 27 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

FLORANCE H 037

API No. 3004560189

Unit Letter H Section 06 T 30N R 08W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

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

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.022
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.087
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	< 50
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report and laboratory reports are attached.

7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results indicate a release has occurred but is below regulatory standards. Impacted soils/bedrock were physically observed/detected after the BGT was removed. An additional 3 point composite sample was collected at the northern quadrant area the same day as the confirmation sampling on September 25, 2017. The lab results were well below the Spill & Release Guidelines for TPH, BTEX, & chloride. Attached are laboratory reports 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 occurred but is below regulatory standards. Impacted soils/bedrock were physically observed/detected after the BGT was removed. An additional 3 point composite sample was collected at the northern quadrant area the same day as the confirmation sampling on September 25, 2017. The lab results were well below the Spill & Release Guidelines for TPH, BTEX, & chloride. Attached are laboratory reports and C-141.

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. 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. The location will be reclaimed once the well is plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area has been backfilled. 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. 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. 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 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

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

Form C-141

Revised April 3, 2017

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

			Rele	ease Notific	cation	and Co	orrective A	ction	1							
						OPERA	ΓOR		_ Initi	al Report		Final Repor				
Name of Company BP America Production Company						Contact Erin Garifalos										
Address 200 Energy Court, Farmington, NM 87401 Facility Name FLORANCE H 037						_	No. (832) 609-7048 be: Natural Gas We	II								
			Mineral C			or Hatarar Gao Tro		ADINA	2004500400							
Surface Ow	ner: Federa								APINO	3004560189	,					
Unit Letter	Section	Township	Range	LOCA Feet from the		N OF RE	Feet from the	Fact/	West Line	County						
H	06	30N		1,650	Nor	-	990	East			San	Juan				
Latitude 36.842885 Longitude -107.711479 NAD83																
				NAT	URE	OF REL	EASE									
Type of Rele	ase:: none)					Release: unknown			Recovered: : Hour of Dis						
Source of Re	belo	w grade ta	nk - 21	obl		n/a		e.	n/a	Hour of Dis	covery	•				
Was Immedi	ate Notice (Yes	No Not Re	equired	If YES, To	Whom?									
By Whom?	D	1 10				Date and H		1 777								
Was a Water	course Read	ched?	Yes	No		If YES, Vo	olume Impacting t	the Wat	ercourse.							
Describe Are	a Affected a		Action Tak	Samp Soil a closu en.* No actio remedia	analys ire sta in nec I actio	essary. Fon is requ	knowledge and u	ory a	BTEX, ar aborato	nd TPH by ry results determin	ed no	y BGT attached.				
public health should their or or the environ	or the environment. In a	ronment. The ave failed to a	acceptance dequately CD accep	e of a C-141 repo investigate and re	ort by the emediate	e NMOCD m e contaminati	and perform correct arked as "Final R on that pose a thr e the operator of	eport" of eat to g respons	loes not reli round water ibility for co	ieve the oper r, surface wa ompliance v	rator of ater, hu vith any	fliability man health				
4	Tin a	ATTIA D.	1			OIL CONSERVATION DIVISION										
		orifalo				Approved by Environmental Specialist:										
Printed Name	Erin G	arifalos				Approved by Environmental specialist.										
Title: Field	d Enviro	onmenta	I Coo	dinator		Approval Dat	e: \2\2\D	do	Expiration 1	Date:						
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of	Approval:			Attached						
Date: Noven				(832) 609-7048												
Attach Addi	tional Shee	ets If Necess	ary		1	AVF	17355	40	180k							

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

September 22, 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: FLORANCE H 37

API#: 3004560189

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 September 25, 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 (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Friday, September 22, 2017 12:22 PM

To:

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

Cc:

'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Garifalos, Erin

Subject:

BP Pit Close Notification - FLORANCE H 37

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

September 22, 2017

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

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

FLORANCE H 37 API 30-045-60189 (H) Section 6– T30N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around September 25, 2017.

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

Sincerely,

Erin Garifalos

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

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

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

CLIENT: BP	P.O. BOX 87, BL	GINEERING, IN OOMFIELD, NN (6) 632-1199		API#: 30045	60189 B							
FIELD REPORT:	OTHER:	(if applicble):	of									
SITE INFORMATION QUAD/UNIT: H SEC: 6 TWP: 1/4-1/4/FOOTAGE: 1,650'N / 99	ST: NM	DATE STARTED:	9/25/17 NJV									
REFERENCE POINT 1) 21 BGT (SW/DB) - B 2) PRODUCTION TANK 3)	WELL HEAD (W.H.) GPS C	NTRACTOR: BP - J. GC COORD.: 36.84283 12885 X 107.711479 12926 X 107.711447	5 X 107.711091 DISTANCE/BEA DISTANCE/BEA	GL ELEV.:								
SAMPLING DATA: 1) SAMPLE ID: 5PC - TB @ 7.5' 2) SAMPLE ID: 3PC - NSWC @ 2'- 3) SAMPLE ID: 4) SAMPLE ID: 5) SAMPLE ID:		7 SAMPLE TIME: 1325	LAB ANALYSIS: 801	15B/8021B/300.0 (CI) 15B/8021B/300.0 (CI)	OVM READING (ppm) 17.0 11,866							
SOIL DESCRIPTION: SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL OTHER BEDROCK (SANDSTONE) SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / CHAYS): NON PLASTIC / COHESIVE / MEDIUM PLASTIC / COHESIVE / MEDIUM PLASTIC / COHESIVE / COHESIVE / MEDIUM PLASTIC / COHE												
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - VARYING SHADES OF GRAY, MINOR AMOUNT DARK GRAY TO BLACK. SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: NORTH CORNER SIDEWALL ONLY. EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION - OTHER: NMOCD REP. PRESENT TO WITNESS SAMPLING OF 21 BGT. BEDROCK - HARD, FRIABLE STARTS 2'-3' BELOW GRADE AT 21 BGT. GPS COORDINATES OBTAIN USING GOOGLE EARTH PRO. EXCAVATION DIMENSION ESTIMATION: NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards): NA												
SITE SKETCH	BGT Located : off on site PROD. TANK	_ NEAREST SURFACE WATER: _ PLOT PLAN circ	over the state of	CALIB. READ. = 100.0 CALIB. GAS = 100 : 2:05 am(pm) DATE: MISCELL. N	1,000 ppm ppm RF=1.00 ppm 09/25/17 OTES							
(21)-B PBGTL T.B. ~ 5' B.G.	BERM	W.H. ⊕	P. O Tar	WO: REF #: P-863 VID: VHIXONEV11 PJ #: Permit date(s): 06/10/10 OCD Appr. date(s): 07/02/17 Tank OVM = Organic Vapor Meter ppm = parts per million B BGT Sidewalls Visible: Y /N								
	OW-GRADE TANK LOCATION; SPD = SAMPLE POI E WALL; DW-DOUBLE WALL; SB - SINGLE BOTTO	OW; T.H. = TEST HOLE; ~ = APPROX.; NT DESIGNATION; R.W. = RETAINING	WALL; NA - NOT N	BGT Sidewalls Visible: \(\) BGT Sidewalls Visible: \(\) Inagnetic declination:	Y / N							

Analytical Report

Lab Order 1709E11

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 7.5' (21)-B

Project: FLORANCE H #37

Collection Date: 9/25/2017 1:25:00 PM

Lab ID: 1709E11-002

Matrix: SOIL

Received Date: 9/26/2017 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	9/26/2017 10:39:45 AM	34063
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/26/2017 9:41:44 AM	34069
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/26/2017 9:41:44 AM	34069
Surr: DNOP	100	70-130	%Rec	1	9/26/2017 9:41:44 AM	34069
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	9/26/2017 10:20:42 AM	34054
Surr: BFB	110	54-150	%Rec	1	9/26/2017 10:20:42 AM	34054
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.022	mg/Kg	1	9/26/2017 10:20:42 AM	34054
Toluene	ND	0.043	mg/Kg	1	9/26/2017 10:20:42 AM	34054
Ethylbenzene	ND	0.043	mg/Kg	1	9/26/2017 10:20:42 AM	34054
Xylenes, Total	ND	0.087	mg/Kg	1	9/26/2017 10:20:42 AM	34054
Surr: 4-Bromofluorobenzene	115	66.6-132	%Rec	1	9/26/2017 10:20:42 AM	34054

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 2 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 1709E12

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3PC-NSWC @ 2'-5' (21)-B

Collection Date: 9/25/2017 1:55:00 PM

Project: FLORANCE H #37 Lab ID: 1709E12-001

Matrix: SOIL

Received Date: 9/26/2017 7:15:00 AM

Analyses	Result PC			Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	ND	30		mg/Kg	20	9/26/2017 10:52:08 AM	34063
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3				Analyst:	TOM
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	9/26/2017 10:06:11 AM	34069
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/26/2017 10:06:11 AM	34069
Surr: DNOP	99.7	70-130		%Rec	1	9/26/2017 10:06:11 AM	34069
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB
Gasoline Range Organics (GRO)	58	21		mg/Kg	5	9/26/2017 10:44:24 AM	34054
Surr: BFB	171	54-150	S	%Rec	5	9/26/2017 10:44:24 AM	34054
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.10		mg/Kg	5	9/26/2017 10:44:24 AM	34054
Toluene	ND	0.21		mg/Kg	5	9/26/2017 10:44:24 AM	34054
Ethylbenzene	ND	0.21		mg/Kg	5	9/26/2017 10:44:24 AM	34054
Xylenes, Total	2.7	0.42		mg/Kg	5	9/26/2017 10:44:24 AM	34054
Surr: 4-Bromofluorobenzene	120	66.6-132		%Rec	5	9/26/2017 10:44:24 AM	34054

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

- 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Chain-or-Custody Record			Turn-Around 7	ime:	SAME				н	A	L	Eľ	V	IF	20	NI	ME	NT	AL		
Client:	Client: BLAGG ENGR. / BP AMERICA				☑ Rush _	DAY														RY	7
				Project Name:								/.hall									
Mailing Address: P.O. BOX 87			FL	ORANCE H	# 37		490	01 H									37109)			
BLOOMFIELD, NM 87413			Project #:																		
Phone #: (505) 632-1199			1			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request															
email or f	ax#:			Project Manag	er:													î			
QA/QC Package: Standard Level 4 (Full Validation)					NELSON VI	ELEZ	48's (8021B)	+ TPH (Gas only)	MRO)			(S)		Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	PCB's			er - 300.1)			
Accreditation:				Sampler:	NELSON VI	LEZ ny)8) E	(Gas	RO/	1)	F	SIS		02,	3082			wat		am	
□ NELAP □ Other			On line	X(Yes	.⊡ No.	1	TPH	0/C	418.	504.	827(03,N	3/5		(AC	0.00		e Sa		
□ EDD (rype)			Sample Temp	arature 3		1	+ ==	(GRC	pod	pod	or	etals	Ž,	cide	(A)	i-VC	il - 3(1	osit	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	×	X + MITBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	ons (F,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample 5 pt. composite sample	
				mentet	туре	DOGEN	ВТЕХ	BTEX	TPH	TPH		PAF	2	Ani	808	826	827	5		S of	
9/25/17	1305	SOIL	SPE TD @ (95) A	402. 1	Cool	50	4		+			-	+					4	-		7
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9/25/17	1325	SOIL	5PC-TB@ 7.5 (21)-B	4 oz 1	Cool	102	٧		٧									٧		٧	
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Date: 9/25/17	Time:	Relinquish	ling	Received by:	What	Date Time 9/25/17 17/1		narks:		BILL D & REF	EREN	CE#W	HEN	APP	LICAE	BLE;		VITH C	ORRESE	PONDIN	IG
Date:	Time:	Relinquish	ed by:	Received by	J 09	Date Time			VID:	VHIX		V11	JJ /	TAI	101	IIAC	-14			,	

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Client:			stody Record . / BP AMERICA	Turn-Around Time: SAME Standard Rush Project Name:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com										r			
Mailing A	ddress:	P.O. BO	X 87		LORANCE H	# 37		49	01 F			w.hal NE -)		
		BLOOM	FIELD, NM 87413	Project #:				T	el. 50	05-34	45-3	975	F	ax	505-	345	-410	7			
Phone #:	*	(505) 63	32-1199				, 12	-14			117	А	naly	/sis	Rec	lues	t	100			
email or F	ax#:			Project Manag	ger:			T		-				_				1)		T	
QA/QC Pad Standa			Level 4 (Full Validation)		NELSON VE	ELEZ	7	only)	/ MRO)			(S)		04,50	PCB's			er - 300.1)		٩	ا ا
Accreditat	ion:			Sampler:	NELSON VI	ELEZ 90		(Gas	RO/	T	ਜ	SIN		02,	8082			wat		sample	1
□ NELAP	•	□ Other		On the	i x cYes	TO NOT		표	0/0	418.	504.1)	327(O3,N			(A)	0.00		G S	1
	Гуре)	T		Sample Temp	ម្មត្វាហ៊ុន 🔠	3		, ÷ Ξ	(GRC	pou	pod	or	etals	CI, N	cide	(A)	i-VC	il - 3(9	osit	:
Date	Time	Matrix	Sample Request ID	Container Type and # M-coll Kd	Preservative Type	HEAL NO.	TILLY COME	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water	Grah cample	# pt. composite	1 2
9/25/17	1355	SOIL	3PC-NJWCez-5'		COOL	700		1	1									V		3	
			(ZA)-B				- V													+	+
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Date:	Time:	Relinquish	luly	Received by: Date Time R 925/7 /7/1 Received by: Date Time			Re	emarks CONT	ACT:	& REI	FEREN	ICE#V	OS /	APP	LICAE	BLE;		VITH C	ORRESP	ONDI	NG V
7/25/17	1757	10	1 Wat	Close Cospection Reference					# P-863												

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E11

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H #37

Sample ID MB-34063

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 34063

RunNo: 45881

Prep Date: 9/25/2017

Analysis Date: 9/26/2017

SeqNo: 1459275

Units: mg/Kg

RPDLimit

Analyte Chloride

Result ND

PQL SPK value SPK Ref Val %REC LowLimit 1.5

HighLimit

%RPD

Qual

Sample ID LCS-34063

SampType: Ics Batch ID: 34063

RunNo: 45881

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: LCSS Prep Date:

9/25/2017

Analysis Date: 9/26/2017

SeqNo: 1459276

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result

PQL SPK value SPK Ref Val %REC 1.5

0

95.2

110

14

15.00

90

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 3 of 6

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E11

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H#37

Sample ID LCS-34069	SampTyp	e: LC	S	Test	Code: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch II	D: 34 0	069	R	tunNo: 4	5872				
Prep Date: 9/26/2017	Analysis Date	e: 9 /:	26/2017	S	eqNo: 1	457748	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	73.2	114			
Surr: DNOP	4.7		5.000		94.8	70	130			

Sample ID MB-34069	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 34	069	F	RunNo: 4	5872				
Prep Date: 9/26/2017	Analysis D	ate: 9/	26/2017	S	SeqNo: 1	457749	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	9.7		10.00		97.3	70	130			

Qualifiers:

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

1709E11

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H#37

Sample ID MB-34054

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 34054

RunNo: 45888

Surr: BFB

Prep Date: 9/25/2017

Analysis Date: 9/26/2017

PQL

5.0

SeqNo: 1458653

LowLimit

54

Units: mg/Kg

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Result ND 1100

1000

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

0

110

HighLimit 150 %RPD **RPDLimit** Qual

Sample ID LCS-34054

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS

Batch ID: 34054

RunNo: 45888

Prep Date: 9/25/2017 Analysis Date: 9/26/2017

PQL

5.0

SeqNo: 1458654

Units: mg/Kg

Analyte

24

25.00

95.5

76.4

LowLimit

HighLimit 125

Gasoline Range Organics (GRO) Surr: BFB

1200

Result

1000

117

54

150

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E11

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H#37

Sample ID MB-34054	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 34	054	R	RunNo: 4	5888				
Prep Date: 9/25/2017	Analysis D	oate: 9/	26/2017	S	SeqNo: 1	458669	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		120	66.6	132			

Sample ID LCS-34054	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 34	054	R	RunNo: 4	5888				
Prep Date: 9/25/2017	Analysis D	ate: 9/	26/2017	S	SeqNo: 1	458670	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

- 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
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Page 6 of 6

- P Sample pH Not In Range
- 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:	1709E1	1		RcptNo	x: 1
Received By:	Anne Thor	ne !	9/26/2017 7:16:00 AM		am.	Am	_	
Completed By:	Anne Thor	ne :	9/26/2017 7:20:00 AM		am	1/-	_	
Reviewed By:	SKL	09/26/1	1		J			
Chain of Cus	stody							
1. Custody se	als intact on sa	ample bottles?		Yes [No		Not Present	
2. Is Chain of	Custody comp	lete?		Yes	No		Not Present	
3. How was th	ne sample deliv	rered?		Courie	r .			
Log In								
4. Was an att	empt made to	cool the samples?		Yes	✓ No		NA 🗆	I
5. Were all sa	imples received	d at a temperature o	of >0° C to 6.0°C	Yes V	No		NA 🗆	
6. Sample(s)	in proper conta	ainer(s)?		Yes [No			
7. Sufficient sa	ample volume	for indicated test(s)	?	Yes 5	No			
8. Are sample	s (except VOA	and ONG) properly	preserved?	Yes 5	No			
9. Was preser	rvative added to	bottles?		Yes [No	V	NA 🗀	
10.VOA vials h	nave zero head	space?		Yes [No		No VOA Vials	
11. Were any s	sample contain	ers received broker	1?	Yes	No	V	# of preserved	
40 p				Yes 5	d No.		bottles checked for pH:	
12. Does paper (Note discre		ain of custody)		Yes D	NO NO			or >12 unless noted)
		ntified on Chain of C	Custody?	Yes 5	No		Adjusted?	
14. Is it clear w	hat analyses w	ere requested?		Yes 1				
15. Were all ho	lding times abl			Yes &	No		Checked by:	
(ii iio, iiotil)	duotomor for t	addionization.						
Special Hand	dling (if app	olicable)						
16. Was client	notified of all di	screpancies with th	is order?	Yes [□ No		NA 🗹	
Perso	n Notified:		Date	OR OTHER DESIGNATION OF THE PERSON OF THE PE	NO SERVICE SERVICE PROPERTY CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR O	MONTHS COLUM	*	
By W	hom:		Via:	eMail	Phone	Fax	☐ In Person	
Regar	rding:		CF TO A CITY OF A LABORITHM AND AN ANALASM AND AN AND AN AND AN AND AN ANALASM AND AND AN ANALASM AND AND AN ANALASM AND AND ANALASM AND AND ANALASM					
Client	Instructions:		e-ve efter spanjetis Aries deres i de l'Establis de l'Establis de l'Establis de l'Establis de l'Establis de l'					
17. Additional	remarks:							
18. Cooler Info	1	Condition Sea	I Intact Seal No S	Seal Date	Signed I	Ву		
Ľ,						,		

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E12

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H#37

Sample ID MB-34063

Prep Date:

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

9/25/2017

Batch ID: 34063 Analysis Date: 9/26/2017

RunNo: 45881

SeqNo: 1459275

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result ND

1.5

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

HighLimit

%RPD

Sample ID LCS-34063 Client ID: LCSS

SampType: Ics Batch ID: 34063

PQL

1.5

RunNo: 45881

%REC

Prep Date: 9/25/2017 Analysis Date: 9/26/2017

SeqNo: 1459276

Units: mg/Kg

%RPD

Qual

Analyte

15.00

SPK value SPK Ref Val

95.2

LowLimit

RPDLimit

Chloride

Result 14

0

90

HighLimit 110

Qualifiers:

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E12

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H #37

Sample ID LCS-34069	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 340	069	R	lunNo: 4	5872				
Prep Date: 9/26/2017	Analysis Da	te: 9/	26/2017	S	eqNo: 1	457748	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	89.4	73.2	114			
Surr: DNOP	4.7		5.000		94.8	70	130			

Sample ID MB-34069	SampT	ype: ME	BLK	Tes	Code: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 34	069	R	RunNo: 4	5872				
Prep Date: 9/26/2017	Analysis D	ate: 9/	26/2017	S	eqNo: 1	457749	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	9.7		10.00		97.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E12

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H #37

Sample ID MB-34054

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

54

Client ID:

PBS

Batch ID: 34054

PQL

5.0

RunNo: 45888

Prep Date:

9/25/2017

Analysis Date: 9/26/2017

SeqNo: 1458653

Units: mg/Kg

Analyte

Result ND

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

1100

1000

110

150

Sample ID LCS-34054

SampType: LCS

%REC

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 34054

5.0

RunNo: 45888

Prep Date: 9/25/2017 Analysis Date: 9/26/2017

SeqNo: 1458654

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

24 1200

Result

25.00 1000

SPK value SPK Ref Val

95.5 117

54

LowLimit

76.4

HighLimit 125 150

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit **PQL**
- % 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 4 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E12

29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE H #37

Sample ID MB-34054	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 34	054	F	RunNo: 4	5888				
Prep Date: 9/25/2017	Analysis D	Date: 9/	26/2017	8	SeqNo: 1	458669	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	12		1 000		120	66.6	132			

Sample ID LCS-34054	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 34	054	F	tunNo: 4	5888					
Prep Date: 9/25/2017	Analysis D	ate: 9/	26/2017	S	eqNo: 1	458670	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	102	80	120				
Toluene	1.1	0.050	1.000	0	106	80	120				
Ethylbenzene	1.1	0.050	1.000	0	113	80	120				
Xylenes, Total	3.4	0.10	3.000	0	114	80	120				
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132				

- * 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 5 of 5

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



Hall Environmental Analysis Laboratory 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 Numb	er: 1709E12		RcptNo:	1
Received By: Anne Tho	Prne 9/26/2017 7:15:00 A	М	aone Am		
Completed By: Anne Tho	orne 9/26/2017 7:25:18 A	M	Ame Home Ame Home		
	09/26/17		Clare June		
Chain of Custody	• 4				
1. Custody seals intact on s	sample bottles?	Yes	No 🗆	Not Present	
2. Is Chain of Custody com	plete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample del	ivered?	Courier			
<u>Log In</u>					
4. Was an attempt made to	cool the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples receive	ed at a temperature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
6. Sample(s) in proper con	tainer(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume	e for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VO	A and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added	to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero hea	dspace?	Yes	No 🗆	No VOA Vials	
11. Were any sample contai	ners received broken?	Yes	No 🗹	# of preserved	
				bottles checked	
Does paperwork match be (Note discrepancies on c		Yes 🗹	No L	for pH:(<2 or	>12 unless noted)
13. Are matrices correctly ide	**	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses	•	Yes 🗹	No 🗆		
15. Were all holding times at (If no, notify customer for		Yes 🗹	No 🗆	Checked by:	
(ii no, notify describer for	addivization.				,
Special Handling (if ap	plicable)				
16. Was client notified of all o	discrepancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:		en Austrialistische State in der Gestalte der Gestalte der Gestalte der Gestalte der Gestalte der Gestalte der	OR BLUE REPERTURE OF THE PROPERTY OF THE PROPE		
Client Instructions:					
17. Additional remarks:					
18. Cooler Information		a in i	et		
Cooler No Temp °C	Condition Seal Intact Seal No Good Yes	Seal Date	Signed By		
Commission of the commission o					



