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 <u>District IV</u> 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.

Form C-144 Revised June 6, 2013

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.

Santa Fe, NM 87505

Pit, Below-Grade Tank, or	
12397 Proposed Alternative Method Permit or Closure Plan Application	on acua biyalas a
Type of action.   Delow grade talk registration	OIL CONS. DIV DIST. 3
Permit of a pit or proposed alternative method  Closure of a pit, below-grade tank, or proposed alternative method	NOV 2 1 2014
Modification to an existing permit/or registration	MOA B T CO.
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 alterna	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface we 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:Gallegos Canyon Unit 233	
API Number:3004511686OCD Permit Number:	
U/L or Qtr/QtrM Section27 Township28N Range12W County:San J	uan
Center of Proposed Design: Latitude36.62898Longitude108.10494NAD	): ☐1927 ⊠ 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
2.	
Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary:  Drilling  Workover	
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling F	•
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L	x Wx D
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank B	
Volume: 45.0 bbl Type of fluid: Produced water	
Tank Construction material:Steel	
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _Single walled/Double bottomed; side walls n	ot visible
Liner type: Thicknessmil	
4.	
Alternative Method:  Submitted of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Rureau office for	agnedidantian of annual
. Numbros of an exception request is required - exceptions must be submitted to the Nanta Fe Environmental Rureall Office for .	ZAGRIGIEGO DO LOS ADDITAVAL - 1

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)	hospital,
☐ 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)	
Monthly inspections (if netting of serecting is not physically reastore)	
Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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.	otable 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
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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

Form C-144

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

Form C-144 Oil Conservation Division Page 3 of 6

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached.  ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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 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
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 plán. 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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

Page 4 of 6

- 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 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.  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  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address:Telephone:	
e-mail address:	2014
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 12/11/	2014 the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Title: OCD Permit Number:  OCD Permit Number:  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 section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 10/8/2014	2014 the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date:   2/   /   Title: OCD Permit Number:    OCD Permit Number:	2014 the closure report. complete this

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires	
Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Signature: Jeff Rose	Date:November 20, 2014
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479

### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### **BELOW-GRADE TANK CLOSURE PLAN**

# Gallegos Canyon Unit 233, BGT Tank B (45 bbl) API No. 3004511686 Unit Letter M, Section 27, T28N, R12W

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

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
	45 bbl BGT, Tank B	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	99.8
Chlorides	US EPA Method 300.0 or 4500B	250 or background	31.4

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 and TPH, BTEX and chloride levels were below the stated limits. Sampling data is 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 no release occurred.

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

The area under the BGT was backfilled with clean soil and is still within the active well area.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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 over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

BP will seed the area when the well is plugged and abandoned as part of final reclamation.

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

#### BP will notify NMOCD when re-vegetation is successful.

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

#### Closure report on C-144 form is included.

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

ion Division
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

**Release Notification and Corrective Action** 

						OPERA:	<b>TOR</b>		Initial	al Report	$\boxtimes$	Final Repor
Name of Co						Contact: Jeff Peace						
		Court, Farmi	<del></del>	M 87401			No.: 505-326 <b>-</b> 94					
Facility Nat	ne: Galleg	os Canyon U	Jnit 233			Facility Typ	e: Natural gas v	vell	<u> </u>			
Surface Ow	ner: Feder	al		Mineral (	)wner: F	ederal			API No	. 30045116	586	
				LOCA	ATION	OF REI	LEASE					
Unit Letter M	Section 27	Township 28N	Range 12W	Feet from the 990	North/S South	South Line	Feet from the 790	East/W West	Vest Line	County: Sa	an Juan	1
	<u>'</u>	Lati	tude36	5.62898		Longitude	108.10494			!		
_				NAT	URE	OF RELI	EASE					
Type of Rele							Release: N/A			Recovered: N		
Source of Re	lease: below	grade tank –	45 bbl, Ta	ank B		Date and H N/A	our of Occurrence	e:	Date and	Hour of Dis	covery:	: N/A
Was Immedia	ate Notice C		Yes 🗌	No 🛛 Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H						<del></del> -··
Was a Water	course Reac		Yes 🛛	No		If YES, Vo	lume Impacting the	he Wate	rcourse.			
If a Watercou	ırse was İmi	pacted, Descri	be Fully.*									
	•	,	,									
the BGT. So	il analysis ro	esulted in TPI	ł, BTEX a	and chlorides belo	ow standa	ards. Analys	the BGT was dor is results are attac	hed.				
backfilled and	d compacted	l and is still w	ithin the a	ctive well area.			nderneath the BG					
regulations al public health should their o	l operators a or the envir perations ha nment. In ac	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	tifications ar NMOCD ma contamination	knowledge and und perform correct arked as "Final Reson that pose a three the operator of r	tive action tive action to the control of the contr	ons for rele oes not reli ound water	eases which eve the oper s, surface wa	may en ator of ter, hur	idanger Tiability man health
	Α	0					OIL CONS	SERV	ATION	DIVISIO	N	
Signature:	Iff	Karel					nasta (10					
Printed Name	: Jeff Peace	;				approved by	Environmental Sp	st:				
Title: Field E	nvironment	al Coordinator	r		Α	approval Dat	e:	E	Expiration I	Date:		
E-mail Addre	ss: peace.je	ffrey@bp.con	1		c	Conditions of	Approval:			Attached		
Date: Novem		ts If Necessa		one: 505-326-947	9							

CLIENT: BP	P.O. BOX 87, BL	IGINEERING, INC. .OOMFIELD, NM 87 5) 632-1199	413	API #: 300451 TANK ID (if applicble):	11686 <del>&amp;</del> B
FIELD REPORT:	(circle one): BGT CONFIRMATION /	,		PAGE #:	of <b>1</b>
SITE INFORMATION		233	_	DATE STARTED: 10	0/06/14
QUAD/UNIT: M SEC: 27 TWP:		NM CNTY: SJ ST		DATE FINISHED:	
1/4 -1/4/FOOTAGE: 990'S / 790'		PE: FEDERAL/STATE/FEE		ENVIRONMENTAL	IOD
LEASE #: <b>SF078828A</b>		NTRACTOR: MBF - D. HAGA	<b>\</b>	SPECIALIST(S):	JCB
REFERENCE POINT				GL ELEV.:	
1) <u>-21 BGT (SW/DB) - A</u> 2) 45 BGT (SW/DB) - B		62846 X 108.10495 62898 X 108.10494			2 <del>', N58E</del> 0', S48E
l	GPS COORD.: <b>30.</b>			RING FROM W.H.; <b>16U</b> RING FROM W.H.;	
	GPS COORD.:			RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR	LAB USED: ENVIROTECH			OVM READING
1) SAMPLE ID: 21 BGT 5-pt.	<u> </u>	4 SAMPLE TIME: 1247 LAB ANA	LYSIS: 418	. <del>1/8021B/300.0 (CI)</del>	(ppm)
2) SAMPLE ID: 45 BGT 5-pt.	@ 4' SAMPLE DATE: 10/06/1	4 SAMPLE TIME: 1237 LAB ANA	LYSIS: 418	.1/8021B/300.0 (CI)	0.0
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANA	LYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANA	LYSIS:		
SOIL DESCRIPTION	SOIL TYPE: SAND / SILTY SAND / SIL	T / SILTY CLAY / CLAY / GRAVEL / OTH	IER		
SOIL COLOR: DARK YEL		PLASTICITY (CLAYS): NON PLASTIC / SLIGH			IGHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL CONSISTENCY (NON COHESIVE SOILS): L		DENSITY (COHESIVE CLAYS & SILTS):			
MOISTURE: DRY SLIGHTLY MOIST MOIST / M		IC ODOR DETECTED: YES NO EXPLAI	VATION -		
SAMPLE TYPE: GRAB (COMPOSITE -	1 =	NY AREAS DISPLAYING WETNESS: YES	NO EXPLAN	ATION -	
DISCOLORATION/STAINING OBSERVED: YES	O EXPLANATION -				
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE	D AND/OR OCCURRED : YES NO EXPLAN	NATION:			
EQUIPMENT SET OVER RECLAIMED AREA: OTHER:	YES NO EXPLANATION -				
SOIL IMPACT DIMENSION ESTIMATION  DEPTH TO GROUNDWATER: <50' N	NA ft. X NA  BEAREST WATER SOURCE: >1,000'	ft. X NA ft. EXC NEAREST SURFACE WATER: >1,0		IMATION (Cubic Yards) :	NA ppm
SITE SKETCH	BGT Located: off on site	1 (			100 ppm
OTTE ONE TOTT	DOT LOCATED. OII I OII SILE				_ppm   RF =0.52
	(45) PBGTL (XxX)	<── BERM			ppm [
	T.B. ~ 4' × x x B.G.	]	N TIME:		
	b.G.	1	l	MISCELL. NO	NE2
C		COMPRESSOR	l —	O: N15447850	
C E	\ SEDA	\ .rator	Pr	0#: <: <b>ZEVH01BG</b> T	
S W.H.	JLI A	INTOR	1 —	J#: Z2-006Q0	
			_	· · · · · · · · · · · · · · · · · · ·	4/10
R D				CD Appr. date(s): <b>06/1</b>	
			Tani ID	k OVM = Organic Vapor	Meter
			*	BGT Sidowalle Vicible: Y	
		X -	S.P.D.	BGT Sidewalls Visible: Y	/(N)
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATI	ON DEPRESSION; B.G. = BELOW GRADE; B = BELO	)W; T.H. = TEST HOLE; ~ = APPROX.; W.H. = W	ELL HEAD;	BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE: SW-SINGL	OW-GRADE TANK LOCATION; SPD = SAMPLE POII E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTO	NT DESIGNATION; R.W. = RETAINING WALL; N. M; DB - DOUBLE BOTTOM.	A-NOT M	agnetic declination:	10 E
NOTES:		ONSITE: 10/06/14			

revised: 11/26/13

BEI1005E-6.SKF



PO Box 22024

Tulsa OK, 74121-2024

Project Name:

GCU 233

Project Number: Project Manager: 03143-0424

Jeff Blagg

Reported:

08-Oct-14 12:38

#### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
21 BGT 5-pt @ 6'	P410023-01A	Soil	10/06/14	10/06/14	Glass Jar, 4 ez.
45 BGT 5-pt @ 4'	P410023-02A	Soil	10/06/14	10/06/14	Glass Jar, 4 oz.



Tulsa OK, 74121-2024

Project Name:

GCU 233

PO Box 22024

Project Number: Project Manager: 03143-0424

Jeff Blagg

Reported:

08-Oct-14 12:38

#### 45 BGT 5-pt @ 4' P410023-02 (Solid)

• '									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	l	1441013	10/07/14	10/07/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1441013	10/07/14	10/07/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	150	1441013	10/07/14	10/07/14	EPA 8021B	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	99.8	34.9	mg/kg	1	1441018	10/07/14	10/07/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	31.4	9.97	mg/kg	1	1441014	10/07/14	10/07/14	EPA 300.0	



PO Box 22024

Tulsa OK, 74121-2024

Project Name:

GCU 233

Project Number: Project Manager: 03143-0424

Jeff Blagg

Reported: 08-Oct-14 12:38

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1441013 - Purge and Trap EPA 5030A										
Blank (1441013-1 tilge and 114p El A 3030A				Prenared &	z Analyzed:	07-Oct-14				
Benzene	ND	0,10	mg/kg	. repared &	7 maryzed.	37 000-14				
Toluene	ND	0.10	mg/kg							
Ethylbenzene	ND	0.10	11							
p,m-Xylene	ND	0.10	n							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10								
Total BTEX	ND	0.10	п							
Surrogate: 4-Bromochlorobenzene-PID	0.396		"	0.399		99.3	50-150			
LCS (1441013-BS1)				Prepared &	Analyzed:	07-Oct-14			_	_
Велгепе	18.7	0.10	mg/kg	19.9		93.8	75-125			
Toluene	18.8	0.10	"	19.9		94.2	70-125			
Ethylbenzene	18.8	0.10	11	19.9		94.5	75-125			
p,m-Xylene	38.1	0.20	**	39.9		95.6	80-125			
o-Xylene	18.7	0.10	и	19.9		93.6	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.394		n	0.399	·······	98.7	50-150			
Matrix Spike (1441013-MS1)	Sou	urce: P410022-0	01	Prepared &	: Analyzed:	07-Oct-14				
Benzene	19.7	0.10	mg/kg	20.0	ND	98.5	75-125			
Toluene	19.7	0.10	и	20.0	ND	99.0	70-125			•
Ethylbenzene	19.8	0.10	a a	20.0	ND	99.1	75-125			
p,m-Xylene	40.1	0.20	п	39.9	ND	100	80-125			
o-Xylene	19.7	0.10	n n	20.0	ND	98.9	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.396		п	0.399		99.3	50-150			
Matrix Spike Dup (1441013-MSD1)	Sou	ırce: P410022-0	01	Prepared &	Analyzed:	07-Oct-14				
Benzene	20.1	0.10	mg/kg	20.0	ND	101	75-125	2.39	15	
Toluene	20.2	0.10	п	20.0	ND	101	70-125	2.33	15	
Ethylbenzene	20.3	0.10	II.	20.0	ND	101	75-125	2.46	15	
o,m-Xylene	41.1	0.20	п	40.0	ND	103	80-125	2.47	15	
o-Xylene	20.2	0.10	п	20.0	ND	101	75-125	2.44	15	
Surrogate: 4-Bromochlorobenzene-PID	0.398		"	0.400		99.7	50-150			



PO Box 22024

Tulsa OK, 74121-2024

Project Name:

GCU 233

Project Number: Project Manager: 03143-0424 Jeff Blagg Reported:

08-Oct-14 12:38

#### Total Petroleum Hydrocarbons by 418.1 - Quality Control

#### **Envirotech Analytical Laboratory**

	Reporting			Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1441018 - 418 Freon Extraction										
Blank (1441018-BLK1)	1				Analyzed:	07-Oct-14				
Total Petroleum Hydrocarbons	ND	35.0	mg/kg							
Duplicate (1441018-DUP1)	Sour	Source: P410023-01			Analyzed:	07-Oct-14				
Total Petroleum Hydrocarbons	ND	34.9	mg/kg		ND				30	
Matrix Spike (1441018-MS1)	Sour	Source: P410023-01			Analyzed:	07-Oct-14				
Total Petroleum Hydrocarbons	1800	35.0	mg/kg	2020	ND	89.1	80-120			



PO Box 22024

Tulsa OK, 74121-2024

Project Name:

GCU 233

Project Number: Project Manager: 03143-0424 Jeff Blagg Reported: 08-Oct-14 12:38

#### Cation/Anion Analysis - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Cimit	Ollita	Level	Result	7010150	Limits		ishiit	Ivotes
Batch 1441014 - Anion Extraction EPA 300.0									<b></b>	
Blank (1441014-BLK1)				Prepared &	Analyzed:	07-Oct-14				
Chloride	ND	9.90	mg/kg						<u> </u>	***
LCS (1441014-BS1)				Prepared &	Analyzed:	07-Oct-14				
Chloride	480	9.97	mg/kg	499	_	96.3	90-110			
Matrix Spike (1441014-MSI)	Sou	rce: P410022-	01	Prepared &	: Analyzed:	07-Oct-14				
Chloride	502	9.86	mg/kg	493	22.2	97.4	80-120			
Matrix Spike Dup (1441014-MSD1)	Sou	rce: P410022-	01	Prepared &	Analyzed:	07-Oct-14				
Chloride	497	9.82	mg/kg	491	22.2	96.7	80-120	1.13	20	



Tulsa OK, 74121-2024

Project Name:

GCU 233

PO Box 22024

Project Number: Project Manager: 03143-0424

Jeff Blagg

Reported: 08-Oct-14 12:38

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

### CHAIN OF CUSTODY RECORD

17854

Client: BP America Project Name / Location:  GCU 233								ANALYSIS / PARAMETERS															
Email results to Jeffer Dag Peace Jeffrer @ Client Phone No	B1099 13-0424					TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	Metals	nion	ľ	н/Р	910-1	(i)	JE				Cool	Itact			
Sample No./ Identification	Sample	Sample Time		No:/V	olume	Preservative		ive	TPH (Met	BTEX (M	VOC (Me	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CÓ Table 910-1	(†181†) Hat	CHLORIDE				Sample C	Sample Intact
21 867 5-pe 6 45 1365 5-pe 0 4	10/	1231			' मं छेर					<b>*</b>	•						×	×				4	7.
5-p+04	it	124	7 P410023-02	, U		3	ji.			*				1			X	٦٤			<u> </u>	4	<u>y</u> .
		2				Ĭ							•				e.						
							,					_				A							
														5H	F Bb		A	<b>)</b> :					
			,									1,5	rL	<u></u>	<i>\)i</i>	,							
Relinquished by: (Signature)	<u></u>	i	<u>.</u>	Date	Time	Rece	ived b	y: (Si	gnati	ure)				•				·		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date	·Tin	ne
Relinquished by: (Signature)  Relinquished by: (Signature):				10/14	1558	Rece	ived b	y: (Ṣi	gnati	ure)				٠,٠٦						V.1/1,	114	15	<u>5</u> 5
Sample Matrix	HELE U - WALANIA - WALANIA	·											· · · · · · · · · · · · · · · · · · ·		<del></del>								
Soil Solid Sludge Sudge Sample(s) dropped off after			off area	<u> </u>		0				•		•		<u></u>	<del> ,</del>								
1				3 6	Anal	ytice	) I al La	bord	ator	y				8	U	0.3	3.						(
- 57.95:US:Highway 6	4 • Farmingt	on, NM.87	401. • 505-632-061.5 • 1	Three Sprii	ngs • 65 M	lerca	do:Str	eet, Si	uite 1	15, D	uranç	30,.C	0.813	30 l: •	labo	atory	@env	virote	ch-ind	c:com	)		

**BP America Production Company** 

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

July 29, 2014

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

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

GALLEGOS CANYON UNIT 233 API 30-045-11686 (G) Section 27- T28N - R12W San Juan County, New Mexico

Dear Mr. Cory Smith:

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 45 bbl BGT and a 21 bbl BGT that will no longer be operational at this well site.

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

Sincerely,

Jeff Peace

**BP Field Environmental Advisor** 

(505) 326-9479





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

July 29, 2014

Bureau of Land Management Mark Kelly 6251 College Blvd Suite A Farmington, NM 87402

#### VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Well Name: GALLEGOS CANYON UNIT 233

APL#: 3004511686

Dear Mr. Kelly,

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 12, 2014. 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.

Unless you have questions about this notice, there is no need to respond to this letter. If you do have any questions or concerns, please contact me at 505-326-9214

Sincerely,

Jerry Van Riper

90 Verge

Surface Land Negotiator

**BP America Production Company** 



