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 87505State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the apropriate NMOCD District Office.District IV 1220 S. St. Francis Dr., Santa Fe, NM 875051220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
Pit, Below-Grade Tank, or       NECLIVED         12745       Proposed Alternative Method Permit or Closure Plan Application         Type of action:       Below grade tank registration         Type of action:       Permit of a pit or proposed alternative method         245 - 23498       Closure of a pit, below-grade tank, or proposed alternative method         Modification to an existing permit/or registration       NMOCD         Closure plan only submitted for an existing permitted or non-permitted pit plow-grade tank, or proposed alternative method       NMOCD         Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request       Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1.       Operator: BP America Production CompanyOGRID #:778         Address:200 Energy Court, Farmington, NM 87401         Facility or well name:Mudge LS 52         API Number:3004523498OCD Permit Number:6310         U/L or Qtr/QtrG Section21 Township31N Range11W County:San Juan         Center of Proposed Design: Latitude36.88700 Longitude107.99332 NAD: [1927 ⊠ 983         Surface Owner: ⊠ Federal [] State [] Private [] Tribal Trust or Indian Allotment
<ul> <li>2.</li> <li>Pit: Subsection F, G or J of 19.15.17.11 NMAC</li> <li>Temporary: Drilling Workover</li> <li>Permanent Emergency Cavitation P&amp;A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no</li> <li>Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other</li> <li>String-Reinforced</li> <li>Liner Seams: Welded Factory Other Other volume: bbl Dimensions: L x W x D</li> </ul>
3.       Subsection I of 19.15.17.11 NMAC       Tank A         Volume:95.0bbl Type of fluid:Produced water       Tank Construction material:Steel         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 _Double walled/double bottomed; side walls not visible         Liner type: Thicknessmil □ HDPE □ PVC □ Other

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify\_

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Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other\_

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting					
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ 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					
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	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					
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)					
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>					

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					
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>					
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				
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	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				
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	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				
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				
<sup>10.</sup> <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : 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 dot attached.					
<ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> </ul>	) NMAC				
<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>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> </ul>	15.17.9 NMAC				
Previously Approved Design (attach copy of design) API Number: or Permit Number:					
11.	· · · · · · · · · · · · · · · · · · ·				
<u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	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> </ul>					
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	0.15.17.9 NMAC				
<ul> <li>Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> </ul>					
Previously Approved Design (attach copy of design) API Number: or Permit Number:					

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	12.	
	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
	attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	
	<ul> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Climatological Factors Assessment</li> </ul>	
	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
	<ul> <li>Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>	
	<ul> <li>Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> </ul>	
	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 $H_2S$ , Prevention Plan	
	<ul> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> </ul>	
	<ul> <li>Monitoring and Inspection Plan</li> <li>Erosion Control Plan</li> </ul>	
	Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
	<sup>13.</sup> <u>Proposed Closure</u> : 19.15.17.13 NMAC	
	Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
	Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
	Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
	On-site Closure Method (Only for temporary pits and closed-loop systems)	
	In-place Burial On-site Trench Burial Alternative Closure Method	
	14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attached to the
	<i>closure plan. Please indicate, by a check mark in the box, that the documents are attached.</i> 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	
	<ul> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
	<ul> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
	15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC	
	Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F	
	19.15.17.10 NMAC for guidance.	
	<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	Yes No
	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
	<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
	<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
	<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🔲 Yes 🗌 No
	Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
	Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
ĺ	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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	Yes 🗌 No					
- Written confirmation or verification from the municipality; Written approval obtained from the municipality						
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>						
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> </ul>						
Society; Topographic map	🗌 Yes 🗍 No					
Within a 100-year floodplain. - FEMA map	Yes 🗌 No					
<ul> <li>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.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC</li> <li>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</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)</li> <li>Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>						
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:						
Signature:         Date:           e-mail address:         Telephone:						
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan), Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	2015					
e-mail address:	2015					
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) Aff Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:Approval Date://14/ Title: OCD Permit Number:	2015 the closure report.					
e-mail address: Telephone:	2015 the closure report.					
e-mail address:	the closure report. complete this					

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#### 22. Operator Closure Certification:

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I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.			
Name (Print):Jeff Peace	Title: Field Environmental Coordinator		
Name (Print):Jeff Peace Signature:	Date:March 9, 2015		
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479		

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## BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

#### <u>Mudge LS 52</u> <u>API No. 3004523498</u> <u>Unit Letter G, Section 21, T31N, R11W</u>

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

#### General Closure Plan

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.

# No notice was made due to misunderstanding of the BGT notice requirements at that time.

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.
 No notice was made due to misunderstanding of the BGT notice requirements at

# No notice was made due to misunderstanding of the BGT notice requirements at that time.

- 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
	95 bbl BGT	(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	27.7
Chlorides	US EPA Method 300.0 or 4500B	250 or background	60

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.

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

- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
   Sampling results indicate 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 has been reclaimed since the well was plugged and abandoned.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

The area over the BGT has been reclaimed with the rest of the site since the well was 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 over the BGT has been reclaimed with the rest of the site since the well was 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 over the BGT has been reclaimed with the rest of the site since the well was 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.

BP will seed the area as part of final reclamation since the well has been plugged and abandoned.

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

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

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

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

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.

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa	Fe, NM 8750	)5			
F	Release Notificat	ion and Co	rrective A	ction		an a
		OPERAT	OR	🗌 Initia	l Report	🛛 Final Report
Name of Company: BP	Contact: Jeff	Peace				
Address: 200 Energy Court, Farmingto	n, NM 87401	Telephone N	o.: 505-326 <b>-</b> 94´	79		
Facility Name: Mudge LS 52	····	Facility Type	e: Natural gas w	vell		
Surface Owner: Federal	Mineral Owned	ar: Federal		A PL No	300452349	
	I	• • • • • • • • • • • • • • • • • • • •		AITNO.	. 50045254	/0
Unit Letter Section Township Ran		ON OF REL	EASE Feet from the	East/West Line	County: Sa	n luan
G 21 31N 11V		orth	1,690	East	County: Ou	
Latitud	e36.88700	Longitude	e107.99332_			
	NATUR	RE OF RELE	ASE			
Type of Release: none		Volume of I	Release: N/A	Volume R	ecovered: N/	/A
Source of Release: below grade tank - 95 b	bl		our of Occurrence	e: Date and I	lour of Disc	overy:
Was Immediate Notice Given?	🗌 No 🛛 Not Requir	ed If YES, To	Whom?			
By Whom?		Date and Ho		· · · · · · · · · · · · · · · · · · ·		
Was a Watercourse Reached?			ume Impacting th	ne Watercourse.		· · · · · ·
Yes	s 🖾 No					
If a Watercourse was Impacted, Describe Fu	ully.*					
the BGT. Soil analysis resulted in TPH, BT Describe Area Affected and Cleanup Action backfilled and compacted and has been recla	n Taken.* BGT was remov	ed and the area un	derneath the BG		e area under	the BGT was
I hereby certify that the information given a regulations all operators are required to repo- public health or the environment. The accep should their operations have failed to adequ or the environment. In addition, NMOCD a federal, state, or local laws and/or regulation	ort and/or file certain release ptance of a C-141 report by ately investigate and remea acceptance of a C-141 repo	e notifications and the NMOCD ma diate contaminatio	d perform correct rked as "Final Re n that pose a thre	ive actions for rele port" does not relie at to ground water,	ases which n eve the opera , surface wate	nay endanger tor of liability er, human health
<b>A O</b>			OIL CONS	SERVATION	DIVISIO	N
Signature: Off Jeaco	×					
Printed Name: Jeff Peace Approved by Environmental Specialist:						
Title: Field Environmental Coordinator		Approval Date	:	Expiration I	Date:	
E-mail Address: peace.jeffrey@bp.com		Conditions of		· •		<b>—</b>
	ne: 505-326-9479		- •		Attached	
Attach Additional Sheets If Necessary		1			1	
Attach Additional Sheets If Necessary						

CLIENT: BP	BLAGG ENGINE P.O. BOX 87, BLOOMF (505) 632-11	IELD, NM 87413	API#: 3004523498
FIELD REPORT:	BGT CONFIRMATION TEMP. PIT CLOSUF	E / RELEASE INVESTIGATION	PAGE No: <u>1</u> of <u>1</u>
	P: <b>31N</b> RNG: <b>11W</b> PM: <b>NM</b> C	NTY: SJ ST: NM	DATE STARTED: 08/27/09 DATE FINISHED:
	,690'E SW/NE LEASE TYPE: F		N ENVIRONMENTAL SPECIALIST: JCB
REFERENCE POINT		D.: 36.88722 X 10	7.99324 GLELEV.: 5,883'
		V 407 00222	NCE/BEARING FROM W.H.: 75', S12W
	GPS COORD.:		NCE/BEARING FROM W.H.:
	GPS COORD.:		
	GPS COORD.:		
	GPS COORD.:	· · · ·	NCE/BEARING FROM W.H.:
LAB INFORMATION:			
· · · · · · · · · · · · · · · · · · ·		S): ENVIROTECH	
			YSIS: 418.1/8015B/8021B/300.0 (CI)
	SAMPLE DATE:		
	SAMPLE DATE:		
	SAMPLE DATE:S		
5) SAMPLE ID:	SAMPLE DATE:	AMPLE TIME: LAB ANAL	YSIS:
CONSISTENCY (NON COHESIVE SOILS): LC PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / C DENSITY (COHESIVE CLAYS & SILTS): SOFT MOISTURE: DRY (SLIGHTLY MOIST) MOIST / WE ADDITIONAL COMMENTS: GAS WE	OHESME / MEDIUM PLASTIC / HIGHLY PLASTIC / FIRM / STIFF / VERY STIFF / HARD	HC ODOR DETECTED: YES NO SAMPLE TYPE: GRAB COMPOS 10/29/2009.	
EXCAVATION DIMENSIONS (if applicable)	: <b>NA</b> fl. X <b>NA</b> fl.	X NA ft. cubic y	ards excavated (if applicable): NA
SITE SKETCH	o		PLOT PLAN
		<b>1</b> .	circle: Attached
		N	
	$\oplus$	I	MISCELL. NOTES
• • •	P & A MARKER		DW - DOUBLE WALLED DB - DOUBLE BOTTOM
PBGTL T.B. ~ 5' B.G.	$\xrightarrow{\mathbf{x}} \begin{pmatrix} \mathbf{x} \\ \mathbf{x} \\ \mathbf{x} \end{pmatrix}$	, X - S.P.D	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS	VATION DEPRESSION; B.G. = BELOW GRADE; B = BE BELOW-GRADE TANK LOCATION; SPD = SAMPLE PC	low; T.H. = Test Hole; ~ = Approx.; Dint designation; R.T. = Retaining Wall	· 
TRAVEL NOTES: CALLOUT:		ONSITE: 08/27/09	

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#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

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Parameter	<u>(mg</u>	(Kg)	(mg/kg)
Development		entration	Limit
ann lataan waxaa ahaan ahaa A	<u> </u>		Det.
Condition:	Intact	Analysis Needed:	T.P.H-418,1
Preservative:	Cool	Date Analyzed:	09-03-09
Sample Matrix:	Soil	Date Extracted:	09-03-09
Chain of Custody No:	. <b>5</b> 98 <u>0</u>	Date Received:	09-03-09
Laboratory Number:	51522	Date Sampled:	08-27-09
Šāmpļe ID:	95 BGT 5pt @ 5'	Date Reported:	09-08-09
Client:	Blagg /BP	Proječt #:	94034-0010

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USERA Storet No. 4551, 1978.

Comments:

Mudge LS 52:

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3 enviro Analytical	Laboratory	EPA METHOD 8( Nonhalogenated Vo Total Petroleum H	olatile Organic
	P×A	uell	
·Client:	Blagg/BP	Project #:	94034-0010
Sample ID:	95 BGT 5-pt @ 5	Date Reported:	09-08-09
Laboratory Number:	51522	Date Sampled:	08-27-09
Chain of Custody No:	5980	Date Received:	09-03-09
Sample Matrix:	Sojl	Date Extracted:	09-03-09
Preservative:	Cool	Date Analyzed:	09-04-09
Condition	Intact	Analysis Requested:	8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/K
Gasoline Range (C5	- C10)	ND	Ō, <u>੨</u>
Diesel Range (C10 -	<u>Č28)</u>	ŇĎ	0.1
Total Petroleum Hyd	in a far ha in a	ND.	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Comments: Mudge LS 52 :

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#### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/BP		Project #:		94034-0010	
Sample ID:	95 BGT 5-pt @ 5'		Date Reported:		09-08-09	
Laboratory Number:	51522		Date Sampled:		08-27-09	
Chain of Custody:	5980		Date Received:		09-03-09	
Sample, Matrix:	Soil		Date Analyzed		09-04-09	
Preservative:	Cool		Date Extracted:		09-03-09	
Condition:	Intact		Analysis Requested:		BTEX	
1				<b>D</b> -4	······································	1
		Concentration		Det Limit		
Parámeter		(ug/Kg)		(ug/Kg)		
		(3/3)		<u> (- 5, ; 5)</u>		
<b>Benzene</b>		ND		Ô.9		
Toluene	1					
Ethylbenzene		ND ND		1.0 1.0		
p,m-Xylene		ŃĎ		1.0		
o-Xylene						
0-väiene		ND		0.9		
Total BTEX		ND				

ND - Paraméter not detected at the stated detection limit.

Surrogate Recoveries:	Parametér	Percent Recovery
	Fluorobenzene	.96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: Mudge LS 52

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Chloride

Cliệnt:	Blagg/BP	Project #:	94034-0010
Sample ID:	95 BGT 5-pt @ 5'	Date Reported:	09-08-09
Lab ID#:	51522	Date Sampled:	08-27-09
Sample Matrix:	Sóil	Date Received:	09-03-09
Preservative	Cool	Date Analyzed:	09-04-09
Condition:	Intact	Chain of Custody:	5980
Parameter		Concentration (mg	/Kg)
Total Chloride		60	
Referênce:		ds for Chemical Analysis of Water a	nd Wastes" 1983.
Verei envêr		Examination of Water And Waste M	
Zomments:			
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Analytical Laboratory
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#### EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client: Sample ID: Laboratory Nümber: Sample Matrix: Preservative: Çondîtion:		QA/QC QA/QC 09-03-TPH(QA/0 Freon-113 N/A N/A	QC 51506	Project #: Date Reported Date Sampled Date Analyzed Date Extracted Analysis Need	:  :  :	N/A 09-03-09 N/A 09-03-09 09-03-09 TPH
Calibration	I-Gal Date 08-25-09	C-Cal Date 09-03-09	I-Ĉal RF: <b>1,440</b>	C-Cal RF. 1,520	% Difference 5.6%	Accept Range
			- <b>7</b> - 4 -		2 ·	
Blank Conç. (m TPH	<u>9/Kġ)</u>		Concentration ND		Detection Lim 10,4	ilt.
Duplicate Conc. TPH	<u>(mg/Kg)</u>		Sample <b>32.3</b>	Duplicate 26.6	% Difference 17,6%	Aççept Range +/- 30%
Spike Conc. (mg TPH	<u>y/Kg)</u>	Sample 32.3	Spike Added 2,000	Spike Result 1,930	% Recovery .95.0%	Accept Range 80 - 120%

ND = Parameter not detected at the stated detection limit.

Referençes: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 51337, 51506 - 51509, 51511 - 51513, 51522 and 51532.

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## envirotech Analytical Laboratory

### EPA Method 8015 Modified Nonhalogenated Volatilé Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC 09-04-09 QA/0 51508 Methylëne Chlo N/A N/A	• *	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis Reques	ted:	N/A 09-08-09 N/A N/A 09-04-09 TPH
Gasóline Range C5-C10		1.0821E+003	C Cal RF. 1.0825E+003	%iClifference 0.04%	O - 15%
Diešel Range C10 - C28	Q5-Q7-07	9.4473E+003	9:4511E+002	0.04%	0 - 15% 0 - 15%
Blank Conc. (mp/L=mo/Ko).		+Concentration		Detection Lin	
Gasoline Range C5 - C10		ND	and and a substant of the substant and and a substant of the substant of the substant of the substant of the su	0.2	zyri
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ŅĎ		0.2	
Duplicate Conc. (mp/Kg)	Semple	Duplicate	% Difference	Accept, Range	
Gasoline Range C5 - C10	ŇD	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ŃĎ	ND	0.0%	0 - 30%	
Spike Conc. (mg/Kg)	Sampler	Spike Added	Spike/Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	254	102%	75 - 125%
Diésel Range C10 - C28	ND	250	230	92.0%	75 = 125%

ND - Parameter not detected at the stated detection limit.

References: Method \$015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waster SW-846, USEPA, December 1996.

Comments:

QÁ/QC for Samples 51508 - 51510, 51512 - 50513, 51522, 51532, and 51535.

Analyst

Review



#### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client; Sample ID; Láboratóry Number; Sample Matrix: Preservative; Condition:		Î-04-BT QÂ/QC  508  î   A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis:		N/A 09-08-09 N/A N/A 09-04-09 BTEX
Callibration and Detection Limit	s:(ug/L)	Clicaline	· · · · · · · · · · · · · · · · · · ·	%Diff==: ge:0=15%	Blank. Conc	Detect:
Benzene Toluene Ethylbenzene b;m-Xylene o-Xylene		2.4787€+006 2.3146E+006 2.0442E+006 5.3015E+006 1.9658E+006	2:4837E+006 2:3193E+006 2:0483E+006 5:3121E+006 1:8698E+006	0.2% 0.2% 0.2% 0.2% 0.2%	ND ND ND ND ND	0.1 0.1 0.1 0.1 0.1 0.1
Duplicate Conc.	ug/Kg)	Sampleading	Duplicate	2. %Diff	Accept Range	Defed Limit
Benzené Foluené Ethylbenzene o.m:Xylene o-Xylene		ND ND ND ND	ND ND ND ND ND	0.0% 0.0% 0.0% 0.0% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0:9 1.0 1.2 1:2 0:9
pike Conc: (ug/	(9)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene Foluene Shylbenzene oʻm-Xylene o-Xylene		ND ND ND ND	50.0 50.0 50.0 100 50.0	49.5 49.4 48.5 402 43.0	99.0% 98.2% 97.0% 102% 86:0%	39 - 150 46 - 148 32 - 160 46 - 148 46 - 148 46 - 148
ND - Paraméter not (	detected at the stated d	etection limit.				
Reférençës:	Method 5030B; Purge December 1996 Method 8021B, Aroma Photoionization and/or	ic and Halogenated	Volatiles by Gas Cl	romatography Using		
comments:	QA/QC for San					

Analyst

Review

## CHAIN OF CUSTODY RECORD

5980

Client: BLACE /BP			Project Namé /	Location	:				1						<del>.</del>	/ PAF	AME	TERS	 ;				
Client Address:			MVBGE Sampler Name:	<u> </u>	> 54			~		<b>=</b>	~	T	1	1	<u> </u>	1	1	T	1	<u> </u>			
-				BLA	06				3015)	802	3260												
Client, Phone No.:			Client No.: 94034						TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TỘLP WITH H/P		TPH (418.1)	RIDE			:	Sample Cool	Sample Intact
Identification	Sample Date	Sampl Time	e Lab No.	1	Sample Matrix	No./Volume of Containers	Pres HgCi,	ervative HCI	TPH (A	BTEX	VOC (N	RCRA	Cation	RCI	TCLP	PAH	TPH (2	CHLORIDE			-	Sample	Sampl
94 BGT S-PEQ 5	3/27/00	1130	51522	Soil Solid	Sludge Aqueous	1-402			×	×							×	×				1	J
		<del></del>		Soil Solid -	Sludge —Aqueous-				<del>;</del>								 						
				Şoil Solid	'Sludge Aqueous							1									·	_	
				Soil Solid	Sludge Aqueous																		
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