A.
v! x
District I
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u> 811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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 tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
I.     Operator:     BP America Production Company     OGRID #: 778       Address:     200 Energy Court, Farmington, NM 87401     JUL 2 4 2018
Address:     200 Energy Court, Farmington, NM 87401       Facility or well name:     GCU 219
API Number:     OCD Permit Number:       U/L or Qtr/Qtr     A     Section     23     Township     28N     Range     12W     County:     San Juan
Center of Proposed Design: Latitude 36.65242 Longitude -108.07513 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
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         Lined       Unlined       Liner type:       Thickness         mil       LLDPE       HDPE       PVC         String-Reinforced         Liner Seams:       Welded       Factory       Other
3.
Below-grade tank:       Subsection I of 19.15.17.11 NMAC       TANK A         Volume:       95       bbl Type of fluid:       Produced Water         Tank Construction material:       Steel
4. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>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)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> </ul>

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R.

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

Screen Netting Other

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

#### Variances and Exceptions:

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

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

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

9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce 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	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
<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>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a occupied 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 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 t	he 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 or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	any lakebed, sinkhole,			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of init - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ial application.			
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial ap - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the pro-	oplication;			
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of t	he proposed site 🗌 Yes 🗌 No			
Permanent Pit or Multi-Well Fluid Management Pit				
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebe lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	d, sinkhole, or playa			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of ini - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	tial application.			
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existe initial application.         -       NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certification) of the proposed in the state engineer - iWATERS database search; Visual inspection (certificatin) of the proposed in the state engineer - iWATERS dat				
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the second s</li></ul>	he proposed site  Yes  No			
10. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>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.</i> 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 19.15.17.10 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC         Previously Approved Design (attach copy of design)       API Number:       or Permit Number:				
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark</i>	k in the box, that the documents are			
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 requirement 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	ts of Subsection C of 19.15.17.9 NMAC			
Previously Approved Design (attach copy of design) API Number: or Permit	Number:			

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Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the orattached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Muisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
13. <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 Fl         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       Onesite Trench Burial       Onesite Closure Method	uid Management Pit
<ul> <li>14.</li> <li>Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <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> <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>	nttached to the
<sup>15.</sup> 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. P 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
<ul> <li>Ground water is more than 100 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 □ 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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

<ul> <li>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</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.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No			
Within an unstable area.				
<ul> <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. - FEMA map	Yes No			
<ul> <li>16.</li> <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>Protocols and Procedures - 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>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:	1.107			
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.			
Name (Print): Title:				
Signature: Date:				
c-man address.				
18.       OCD Approval:       Permit Application (including closure plan)       D Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	2/18			
18.       OCD Approval:       Permit Application (including closure plan)       OC Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	2/18			
18.       OCD Approval:       Permit Application (including closure plan)       OCD Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Approval Date:       Approval Date:       OCD         Title:       OCD Permit Number:       OCD Permit Number:       Image: 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.	the closure report.			
18.       OCD Approval:       Permit Application (including closure plan)       OCD Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.			
18.       OCD Approval:       Permit Application (including closure plan)       OC Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report. complete this			

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22.	
<b>Operator Closure Certification:</b>	
	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:	Date: July 19 2018
e-mail address: erin.garifalos@bpx.com	Telephone: (832) 609-7048

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

BELOW-GRADE TANK CLOSURE PLAN

### GCU 219 API No. 3004511629 Unit Letter A Section 23 T 28N R 12W

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**

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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.

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

### All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.072
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.

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.

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## Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is 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 has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. 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 and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. 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

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- 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 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.

A

### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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.

<b>Release Notification and Corrective Action</b>												
						<b>OPERA</b>	ГOR		🗌 Initia	al Report		Final Report
Name of Company BP America Production Company					V	Contact Erin Garifalos						
				n, NM 87401		Telephone 1	No. (832) 609-	7048				
Facility Name GCU 219					Facility Type: Natural Gas Well							
Surface Ow	ner: Fed	eral		Mineral (	)wner:	Federal API No. 3004511629			)			
				LOCA	TION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	West Line	County		
A	23	28N	12W	990	Nor	th	790	Eas	st	San Juan		Juan
			Latitud	e 36.65242	Lo	ongitude - 1	<mark>08.07513</mark>	NAD	83			
				NAT	URE	OF REL						
Type of Relea	ase:: none	9					Release:: unkno					
Source of Re	lease: belo	ow grade ta	nk - 95	bbl		Date and F	Iour of Occurrenc	ence: Date and Hour of Discovery: n/a				
					If YES, To	Whom?						
By Whom?					1	Date and H	Iour					
Was a Watercourse Reached?							olume Impacting t	the Wate	ercourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	¢								
		2										
Describe Cau	se of Probl	em and Reme	dial Action	Sam	0		beneath the				-	

Soil analysis resulted for Chlorides, BTEX, and TPH below BGT closure standards. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.\* No action necessary. Final laboratory analysis determined no remedial action is required.

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

	OIL CONSER	VATION I	DIVISION
Signature:	Approved by Environmental Specia	list:	
Printed Name: Erin Garifalos			
Title: Field Environmental Coordinator	Approval Date:	Expiration D	Pate:
E-mail Address: erin.garifalos@bpx.com	Conditions of Approval:		Attached
Date: July 19 2018 Phone: (832) 609-7048			

\* Attach Additional Sheets If Necessary

bp



BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

May 18, 2018

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: GALLEGOS CANYON UNIT 219 API# - 3004511629

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 May 23, 2018. 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

From:	Buckley, Farrah (CH2M HILL)
То:	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 - GALLEGOS CANYON UNIT 219
Date:	Friday, May 18, 2018 10:54:14 AM
Subject:	BP Pit Close Notification - GALLEGOS CANYON UNIT 219

BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

### SENT VIA E-MAIL TO: <u>CORY.SMITH@STATE.NM.US;</u> <u>VANESSA.FIELDS@STATE.NM.US</u>

May 18, 2018

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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 219 API# 30-45-11629 (A) Section 23 – T28N – R12W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around May 23, 2018.

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

Sincerely,

Erin Garifalos

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

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

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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.

FIELD REPORT:       (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:       PAGE #: _1_ of _1         SITE INFORMATION:       SITE NAME       GCU # 219       DATE STARTED       D5/24/18         QUAD/UNIT:       A SEC: 23       TWP:       28N       RNG:       12W       PM:       NM       CNTY:       SJ       ST       NM         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERAL       STRIKE       DATE STARTED       D5/24/18         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERAL       STRIKE       ENVRONMENTAL         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERAL       STRIKE       ENVRONMENTAL         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERAL       STRIKE         1/4 -1/4/FOOTAGE:       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J. GONZALES       NJV         REFERENCE POINT:       WELL HEAD (WH.) GPS COORD.:       36.65224 X 108.07474       GE LEV:       5,822'         1)       95 BGT (SW/DB)       GPS COORD.:       DISTANCEBEARING FROM WH:       130', N56.5W         2)       GPS COORD.:       DISTANCEBEARING FROM WH:       130', N56.5
QUAD/UNIT:       A       SEC:       23       TWP:       28N       RNG:       12W       PM:       NM       CNTY:       SJ       ST:       NM         1/4 - 1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERAL)       STATE / FEE / INDIAN       BATE FINISHED:         LEASE #       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J, GONZALES       EN/RONMENTAL         STRIKE       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J, GONZALES       EN/RONMENTAL         STRIKE       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J, GONZALES       EN/RONMENTAL         STRIKE       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J, GONZALES       EN/RONMENTAL         1)       95 BGT (SW/DB)       GPS COORD.:       36.65242 X 108.07513       DISTANCEBEARING FROM WH:       130', N56.5W         2)       GPS COORD.:       DISTANCEBEARING FROM WH:       DISTANCEBEARING FROM WH:       CMM         3)       GPS COORD.:       DISTANCEBEARING FROM WH:       DISTANCEBEARING FROM WH:       CMM         4)       GPS COORD.:       DISTANCEBEARING FROM WH:       DISTANCEBEARING FROM WH:       CMM         1) SAMPL
QUAD/UNIT:       A SEC:       23       TWP:       28N       RNG:       12W       PM:       NM       CNTY:       SJ       ST:       NM         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERALL'STATE / FEE / INDIAN       DATE FINISHED;       ENTRONMENTAL         1/4 -1/4/FOOTAGE:       990'N / 790'E       NE/NE       LEASE TYPE:       FEDERALL'STATE / FEE / INDIAN       DATE FINISHED;       ENTRONMENTAL         LEASE #:       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J. GONZALES       ENTRONMENTAL       SPECIALIST(S):       NJV         REFERENCE POINT:       WELL HEAD (W/H.) GPS COORD.:       36.65242 X 108.07513       DISTANCEBEARING FROM WH:       130', N56.5W         2)       GPS COORD.:       GPS COORD.:       DISTANCEBEARING FROM WH:       130', N56.5W         3)       GPS COORD.:       DISTANCEBEARING FROM WH:       01STANCEBEARING FROM WH:
LEASE #.       SF078904       PROD. FORMATION:       DK       CONTRACTOR:       BP - J. GONZALES       SPECIALIST(S):       NJV         REFERENCE POINT:       WELL HEAD (W.H.) GPS COORD.:       36.65224 X 108.07474       GL ELEV.:       5,822'         1)       95 BGT (SW/DB)       GPS COORD.:       36.65242 X 108.07513       DISTANCE/BEARING FROM W.H.:       130', N56.5W         2)       GPS COORD.:       GPS COORD.:       DISTANCE/BEARING FROM W.H.:       130', N56.5W         3)       GPS COORD.:       DISTANCE/BEARING FROM W.H.:
REFERENCE POINT:         WELL HEAD (W.H.) GPS COORD.:         36.65224 X 108.07474         GL ELEV.:         5,822'           1)         95 BGT (SW/DB)         GPS COORD.:         36.65242 X 108.07513         DISTANCE/BEARING FROM W.H.:         130', N56.5W           2)         GPS COORD.:         DISTANCE/BEARING FROM W.H.:         130', N56.5W           3)         GPS COORD.:         DISTANCE/BEARING FROM W.H.:
1)       95 BGT (SW/DB)       GPS COORD.:       36.65242 X 108.07513       DISTANCE/BEARING FROM W.H.:       130', N56.5W         2)       GPS COORD.:       DISTANCE/BEARING FROM W.H.:
3)       GPS COORD.;       DISTANCE/BEARING FROM W.H.;         4)       GPS COORD.;       DISTANCE/BEARING FROM W.H.;         4)       GPS COORD.;       DISTANCE/BEARING FROM W.H.;         5)       SAMPLE ID:       SAMPLE DATE         4)       SAMPLE DATE       OS/24/18         5)       SAMPLE DATE       OS/24/18         6)       SAMPLE DATE       OS/24/18         6)       SAMPLE DATE       OS/24/18         6)       SAMPLE DATE       SAMPLE TIME         1)       SAMPLE DATE       SAMPLE TIME         2)       SAMPLE DATE       SAMPLE TIME         3)       SAMPLE DATE       SAMPLE TIME         4)       SAMPLE DATE       SAMPLE TIME         4)       SAMPLE DATE       SAMPLE TIME         5)       SAMPLE DATE       SAMPLE TIME         6)       SAMPLE DATE       SAMPLE TIME
4)
OVM         SAMPLEING DATA:       CHAIN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       OVM       READING (ppm)         1) SAMPLE ID:       5PC - TB @ 5' (95)       SAMPLE DATE:       05/24/18       SAMPLE TIME:       0910       LAB ANALYSIS:       8015B/8021B/300.0 (CI)       NA         2) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:       LAB ANALYSIS:
SAMPLING DATA:       CHAIN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       READING (ppm)         1) SAMPLE ID:       5PC - TB @ 5' (95)       SAMPLE DATE:       05/24/18       SAMPLE TIME:       0910       LAB ANALYSIS:       8015B/8021B/300.0 (CI)       NA         2) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:       LAB ANALYSIS:
2) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         3) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         4) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SOIL TYPE:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SOIL TYPE:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SOIL COLOR:       SOIL TYPE:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         SOIL COLOR:       DARK YELLOWISH ORANGE       PLASTICITY (CLAY): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         COHESION (ALL OTHERS):       NON COHESIVE / SUIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE       DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
3) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         4) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         SOIL DESCRIPTION:       SOIL TYPE:       SAND SILT / SILTY CLAY / CLAY (GRAVEL) OTHER IMPORTED FOR BGT BEDDING         SOIL COLOR:       DARK YELLOWISH ORANGE       PLASTICITY (CLAYS): NON PLASTIC / SUIGHTLY PLASTIC / HIGHLY PLASTI
4) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         5) SAMPLE ID:       SAMPLE DATE:       SAMPLE TIME:       LAB ANALYSIS:         SOIL DESCRIPTION:       SOIL TYPE:       SAMPLE SAND       SILT / SILTY CLAY / CLAY (GRAVEL) OTHER       IMPORTED FOR BGT BEDDING         SOIL COLOR:       DARK YELLOWISH ORANGE       PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         COHESION (ALL OTHERS):       NON COHESIVE / SUIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE       PLASTICITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
SOIL DESCRIPTION:       SOIL TYPE: SAND SILTY SAND       SILT / SILTY CLAY / CLAY (GRAVEL) OTHER IMPORTED FOR BGT BEDDING         SOIL COLOR:       DARK YELLOWISH ORANGE       PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         COHESION (ALL OTHERS):       NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY A A A A A A A A A A A A A A A A A A A
SOIL COLOR:       DARK YELLOWISH ORANGE       PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         COHESION (ALL OTHERS):       NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE / HIGHLY COHESIVE / DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE / DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION
SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION -
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION -
SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : YES NO EXPLANATION: EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION -
OTHER: MMOCD OR BLM REPS. NOT PRESENT TO WITNESS CONFIRMATION SAMPLING.
EXCAVATION DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA
DEPTH TO GROUNDWATER:NEAREST WATER SOURCE: _>1,000'NEAREST SURFACE WATER:NMOCD TPH CLOSURE STD: 100 ppr
SITE SKETCH BGI located off on site PLOT PLAN circles attached and and the starter
WIGOLLE. NOTES
FENCE WO: REF #: P-992
VID: VHIXONEVB2
$\rightarrow (\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}$
PBGTL T.B. ~ 5' Permit date(s): 06/03/10
B.G. OCD Appr. date(s): 03/07/17
TO
W.H. A BGT Sidewalls Visible: Y N
X - S.P.D.
NOTES: BGT = BELOW/GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW/GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW/GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. BGT Sidewalls Visible: Y / N Magnetic declination: 10° E
NOTES: GOOGLE EARTH IMAGERY DATE: 3/15/2015. ONSITE: 05/24/18

Hall Environmental Analysi	s Labora	tory, Inc.		Date Reported: 5/30/2018		
CLIENT: Blagg Engineering Project: GCU 219		(		ple ID: 5PC-TB @ 5'(95) a Date: 5/24/2018 9:10:00 AM		
Lab ID: 1805D94-001	Matrix:	MEOH (SOIL)	Received	<b>Date:</b> 5/25/2018 7:50:00 AM		
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch		
EPA METHOD 300.0: ANIONS				Analyst: CJS		
Chloride	ND	30	mg/Kg	20 5/25/2018 11:07:51 AM 38333		
EPA METHOD 8015M/D: DIESEL RANG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst:					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 5/25/2018 11:22:26 AM 38324		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1 5/25/2018 11:22:26 AM 38324		
Surr: DNOP	108	70-130	%Rec	1 5/25/2018 11:22:26 AM 38324		
EPA METHOD 8015D: GASOLINE RAN	GE			Analyst: NSB		
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1 5/25/2018 10:08:56 AM 38316		
Surr: BFB	84.6	15-316	%Rec	1 5/25/2018 10:08:56 AM 38316		
EPA METHOD 8021B: VOLATILES				Analyst: NSB		
Benzene	ND	0.018	mg/Kg	1 5/25/2018 10:08:56 AM 38316		
Toluene	ND	0.036	mg/Kg	1 5/25/2018 10:08:56 AM 38316		
Ethylbenzene	ND	0.036	mg/Kg	1 5/25/2018 10:08:56 AM 38316		
Xylenes, Total	ND	0.072	mg/Kg	1 5/25/2018 10:08:56 AM 38316		
Surr: 4-Bromofluorobenzene	95.2	80-120	%Rec	1 5/25/2018 10:08:56 AM 38316		

**Analytical Report** Lab Order 1805D94

### Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

C	hain-o	of-Cus	stody Rec	ord	Turn-Around	Time:	SAME	1				44		F		/ T E	20	DI	ME	DIT.	CA.	
Client:	BLAG	G ENGR.	/ BP AMERIC	4	Standard	Rush	DAY			E									R/			
					Project Name													.con				
Mailing A	ddress:	P.O. BO	X 87		-	GCU # 21	.9		40	01 F										٥		
		BLOOM	FIELD, NM 874	13	Project #:			4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
Phone #:		(505) 63	32-1199		-							10 0		- 24 14		1	ques	~ 2				
email or F	ax#:				Project Manag	gert				100 - J.			1					1	-			and and a second
QA/QC Par	ckage:					EDINI CADI	EALOS	1	5	0					504	PCB's		-	300.1)			
Standa	ard		Level 4 (Full	Validation)		ERIN GARI	FALOS	(80218)	TPH (Gas only)	(MRO)			(S)		PO4	2 PC						e
Accreditat	tion:				Sampler:	NELSON VI		8	(Gas	RO	1)	(T.	8270SIMS		02	/ 8082			/ wat			ldw
D NELAP	3	D Other		and the second	On Ice:	XYes	1 No 92V	11	HH	0/0	418	504	827(		03, 1	/ 5		(A)	0.00			e sa
	Type)	T	1		Sample Temp	erature: (), Z	1.0		1 + 3	(GR(	pot	por	or	etal	CI'N	icide	(A)	1-10	311-3		ole	osit
Date	Time	Matrix	Sample Re	equest ID	Container Type and #	Preservative Type	HEAL NO. 1805D94	BTEX	BTEX + MTBE	TPH 80158 (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride [soil - 300.0 / water		Grab sample	5 pt. composite sample
5/24/18	0910	SOIL	5PC - TB @	5 (95)	4 02 1	Cool	-001	V		٧									V			V
																					$\rightarrow$	-
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	Time:	Relinquish	ed by		Received by:	. 1	Date Time	Ren	harks	2		Contractory of the second	and an other states of the sta	Acresol Phases	and the local data	Charles and the second	the second second	ACTV	VITH C	ORRE	SPON	DING
5/24/18	MO	70	nut		Mar	tublil	2/24/15 1710	C	ONT	ACT:	& RE							N				
Pate.	Time:	Relinguish	ed by: V		Received by:	Couri	Date Time			VID	VHI											
124118	1819	14	Mater 1	alla	Tok	5	25/10 750	Re	ferer	ice #	-	P -	992	-								

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU 219

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Sample ID MB-38333	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 38333	RunNo: 51542		
Prep Date: 5/25/2018	Analysis Date: 5/25/2018	SeqNo: 1679970	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-38333	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 38333	RunNo: 51542		
Prep Date: 5/25/2018	Analysis Date: 5/25/2018	SeqNo: 1679971	Units: mg/Kg	
	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Analyte	Result FQL SFR Value		rightennik for the	

#### Qualifiers:

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

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WO#: **1805D94** *30-May-18* 

WO#: 1805D94

30-May-18

Client: Project:	Blagg En GCU 219										
Sample ID	LCS-38324	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 38	324	F	RunNo: 5	1527				
Prep Date:	5/25/2018	Analysis Da	ate: 5/	/25/2018	S	SeqNo: 1	679 <mark>3</mark> 42	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	53	10	50.00	0	106	70	130			
Surr: DNOP		5.2		5.000		105	70	130			
Sample ID	MB-38324	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 38	324	F	RunNo: 5	1527				
Prep Date:	5/25/2018	Analysis Da	ite: 5/	25/2018	S	SeqNo: 1	679343	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP	1	11		10.00		109	70	130			
Sample ID	1805D94-001AMS	SampTy	pe: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	5PC-TB @ 5'(95)	Batch	ID: 38	324	F	RunNo: 5	1527				
Prep Date:	5/25/2018	Analysis Da	te: 5/	25/2018	S	SeqNo: 1	680881	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	47	10	50.00	2.760	88.5	62	120			
Surr: DNOP		5.3		5.000		107	70	130			
Sample ID	1805D94-001AMSI	D SampTy	pe: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	5PC-TB @ 5'(95)	Batch	ID: 38	324	R	RunNo: 5	1527				
Prep Date:	5/25/2018	Analysis Da	te: 5/	25/2018	S	SeqNo: 1	680882	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	50	9.9	49.50	2.760	94.5	62	120	5.26	20	_
Surr: DNOP		5.3		4.950		107	70	130	0	0	

#### Qualifiers:

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

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU 219

					and the second se					
Sample ID MB-38316	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch	n ID: 38	316	F	RunNo: 5	1525				
Prep Date: 5/24/2018	Analysis D	ate: 5/	25/2018	S	SeqNo: 1	680808	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.1	15	316			
							•.•			
Sample ID LCS-38316	SampT	ype: LC		Tes		PA Method	8015D: Gaso	line Rang	e	
Sample ID LCS-38316 Client ID: LCSS		ype: LC	S					line Rang	e	
		n ID: 38	S	R	tCode: EF	1525			e	
Client ID: LCSS	Batch	n ID: 38	S 316 25/2018	R	tCode: EF	1525	8015D: Gaso		e RPDLimit	Qual
Client ID: LCSS Prep Date: 5/24/2018	Batch Analysis D	n ID: 38: ate: 5/	S 316 25/2018	R	tCode: EF RunNo: 5 SeqNo: 10	1525 680809	8015D: Gaso Units: mg/K	g		Qual

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
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- J Analyte detected below quantitation limits
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WO#: 1805D94

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### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

WO#: 1805D94

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1B: Volatiles
nits: mg/Kg
iqhLimit %RPD RPDLimit Qual
120
1B: Volatiles
its: mg/Kg
ighLimit %RPD RPDLimit Qual
128
125
127
129
120
i

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
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ANALY	CONMENTAL YSIS RATORY	Hall Environmental Albi LEL - 505 (345-3975 Website: www.ha	JØ uguer FAX	01 Haw que, NM 505-34	kins NE 1 87109 15-4107	Sar	mple Log-In Check Lis	st
Client Name	BLAGG	Work Order Number	180	5D94			ReptNo 1	
						ah		
Received By	Isaiah Ortiz	5/25/2018 7 50 00 AM				MA.		
Completed By	Erin Melendrez	5/25/2018 8 03:47 AM			UL-	unt	7	
Lable	ENH BU: TO	5/25/18						
Chain of Cust	tody							
1 Is Chain of Gu	ustody complete?		Yes	~	N	0	Not Present	
2. How was the a	sample delivered?		Cou	ner				
1								
Log In 3. Was an àtlêm	pl made to dool the samples?		Yes	Y	No		NA	
4 Were all samp	les received at a temperature of	of >0°C to 6 0°C	Yes	~	No		NA	
5 Sample(s) in p	proper container(s)?		Yes	~	No			
6. Sufficient samp	ple volume for indicated test(s)	?	Yes	1	No			
7 Are samples (e	except VOA and ONG) properly	preserved?	Yes	1	No	$\Box$		
8. Was preservat	ive added to bottles?		Yês		No	1	NA	
9. VOA vials have	e zero headspace?		Yes		No		No VOA Vials	
10. Were any sam	ple containers received proker	13	Yes		No	1	# of pieserved	
	rk match bottle labels? ncies on chain of custody)		Yes	~	No		for pH	(bot
	orrectly identified on Chain of C	ustody?	Yes	V	No		Adjusted?	(eu)
	analyses were requested?	5		~				
	g times able to be met?		Yes		No		Checked by	
(If no, notify cu	stomer for authorization )						/	
Special Handli	ng (if applicable)						, ,	
15. Was client not	ified of all discrepancies with th	116 DfDer?	Yes		No	howard	NA 🖌	
Person N	Notified.	Date						
By Whor	m	Via	BMa	arl	Phone	Fax	In Person	
Regardin	ig:							
Client In:	structions							
16. Additional rem	harks							
17. Cooler Inform	nation							

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Gaod	Yes			
2	: 0	Good	Yes			

