١	NA *		
	<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 Revised June 6, 2013 For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
\c	Type of action: Be Pe ST53 Or proposed alternative		ve method JAN 0 5 2017 non-permitted pit, below-grade tank,
	Please be advised that approval of this request do	it one application (Form C-144) per individual pit, below- es not relieve the operator of liability should operations result in itor of its responsibility to comply with any other applicable go	n pollution of surface water, ground water or the
	Address:       200 Energy Court, Farming         Facility or well name:       Hughes B 005A         API Number:       3004526837         U/L or Qtr/Qtr       E         Section	upany       OGRID #:         ton, NM 87401            OCD Permit Number:            OCD Permit Number:	County: <u>San Juan</u>
		NMAC P&A Multi-Well Fluid Management Lo ssmil LLDPE HDPE PVC Ot	

Liner Seams: Welded Factory Other

Liner Seams: Welded Factory Other Vol	lume:bbl Dimensions: L x W x D
3.	
Below-grade tank:         Subsection I of 19.15.17.11 NMAC         TANK	<u>B</u>
Volume: 21 bbl Type of fluid: Produced water	
Tank Construction material: <u>Steel</u>	
Secondary containment with leak detection Disible sidewalls, liner, 6-inch	a lift and automatic overflow shut-off
□ Visible sidewalls and liner □ Visible sidewalls only □ Other <u>Single wa</u>	all/ Double bottom; visible sidewalls
Liner type: Thicknessmil	t
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the	e Santa Fe Environmental Bureau office for consideration of approval.

Oil Conservation Division

<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, institution or church)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li></ul>	hospital,
<ul> <li>6.</li> <li><u>Netting</u>: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)</li> <li>Screen Netting Other</li> <li>Monthly inspections (If netting or screening is not physically feasible)</li> </ul>	
<ul> <li>7.</li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>	
<ul> <li>8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li><i>Please check a box if one or more of the following is requested, if not leave blank:</i></li> <li>□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>□ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>	
<sup>9.</sup> 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	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗋 Yes 🗌 No
<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

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Within 300 feet from a oc application.	cupied permanent residence, school, hospital, institution, or church in existence at the time of initial
	(certification) of the proposed site; Aerial photo; Satellite image
watering purposes, or 300	t of a spring or a private, domestic fresh water well used by less than five households for domestic or stock feet of any other fresh water well or spring, in existence at the time of the initial application. agineer - iWATERS database search; Visual inspection (certification) of the proposed site
Within 100 feet of a wetla - US Fish and Wild	nd. llife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site
Temporary Pit No	n-low chloride drilling fluid
or playa lake (measured fi	nuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, om the ordinary high-water mark). ; Visual inspection (certification) of the proposed site
1	rmanent residence, school, hospital, institution, or church in existence at the time of initial application. (certification) of the proposed site; Aerial photo; Satellite image
	t of a spring or a private, domestic fresh water well used by less than five households for domestic or stock 0 feet of any other fresh water well or spring, in the existence at the time of the initial application;

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

### Permanent Pit or Multi-Well Fluid Management Pit

<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗋 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
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No

Within 500 feet of a wetland.

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US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below-grade Tanks) based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- Hydrogeologic Data (Temporary and Emergency Pits) based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19.15.17.10 NMAC
- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- П Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Closure Plan (Please complete Boxes 14 through 18, if applicable) based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: or Permit Number:
- Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC
- Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Hydrogeologic Data based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19.15.17.10 NMAC
- Previously Approved Design (attach copy of design) API Number:

Form C-144

**Oil Conservation Division** 

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or Permit Number:

Yes No

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are						
attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
<ul> <li>Climatological Factors Assessment</li> <li>Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <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> <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> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan</li> <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> <li>Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul>						
<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					
Alternative Proposed Closure Method: Waste Excavation and Removal						
<ul> <li>Waste Removal (Closed-loop systems only)</li> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>						
In-place Burial On-site Trench Burial						
Alternative Closure Method						
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attack closure plan. Please indicate, by a check mark in the box, that the documents are attached.            Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC         Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC         Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)         Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC						
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 source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 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 □ 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>						
<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>						
<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						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance						
Form C-144 Oil Conservation Division Page 4 o	f 6					

<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>						
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>						
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No					
16						
<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>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:	e.f.					
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed and be	lei.					
Name (Print):          Title:						
Signature: Date:						
e-mail address: Telephone:						
e-mail address: Telephone:						
e-mail address: Telephone: <u>OCD Approva</u> l:  Permit Application (including closure ptan)  Closure Plan (only)  OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Title OU iconnocted Specialist OCD Permit Number:	1/2017					
18.       OCD Approval:       Permit Application (including closure ptan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	1/2017					
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.					
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.					
18.       OCD Approval:       Permit Application (including closure ptan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report. complete this					

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Oil Conservation Division

22.					
Operator Closure Certification:					
I hereby certify that the information and attachments submitted with th	is 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 closu					
benet. I also certary that the closure completes with an applicable closu	to requirements and conditions spectred in the approved closure plan.				
Maghal	The Field Function and a Coordinator				
Name (Print): Steve Moskal	Title: Field Environmental Coordinator				
24 250					
Signature: Mars Muc	Date: December 12, 2016				
e-mail address: steven.moskal@bp.com	Telephone: (505) 326-9497				

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

### BELOW-GRADE TANK CLOSURE PLAN

### <u>Hughes B 005A</u> <u>API No. 3004526837</u> Unit Letter E, Section 21, T29N, R08W

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

### **General Closure Plan**

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement. Notice is attached.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number. Notice was provided and is attached.
- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
  - c. Basin Disposal, Permit NM-01-0005 (Liquids)
  - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
  - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

BP BGT Closure Plan 04-01-2010

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

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

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

### The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents Testing Method		Release Verification	Sample
	21 bbl BGT	(mg/Kg)	results
Benzene US EPA Method SW-846 8021B or 8260B		0.2	< 0.021
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.083
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<48
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<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 BTEX, TPH and chloride 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.

- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
   Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed once 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once 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 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.

### 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.

## Release Notification and Corrective Action

OPERATOR	Initial Report	Final Report
Contact: Steve Moskal		
Telephone No.: 505-326-9497		
Facility Type: Natural gas well		
	Contact: Steve Moskal Telephone No.: 505-326-9497	Contact: Steve Moskal Telephone No.: 505-326-9497

Surface Owner: Federal

Mineral Owner: Federal

API No. 3004526837

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
E	21	29N	08W	1,745	North	1,085	West	

Latitude \_\_\_\_\_\_\_ 36.71325° Longitude \_\_\_\_\_\_\_ -107.68591°

### NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume R	ecovered: N/A		
Source of Release: below grade tank – 21 bbl	Date and Hour of Occurrence: none	Date and H	Hour of Discovery: none		
Was Immediate Notice Given?	If YES, To Whom?				
By Whom?	Date and Hour				
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted with BTEX, TPH and chloride 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.					
Signature:	OIL CONSER	VATION I	DIVISION		
Printed Name: Steve Moskal	Approved by Environmental Special	ist:			
Title: Field Environmental Coordinator	Approval Date:	Expiration D	ate:		
E-mail Address: steven.moskal@bp.com	Conditions of Approval:		Attached		
Date: December 12, 2016 Phone: 505-326-9497					

\* Attach Additional Sheets If Necessary

# bp



BP America Production Company 200 Energy Court Farmington, NM 87401

October 13, 2016

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: HUGHES B 005A API #: 3004526837

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 October 134, 2016. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

If witnessing of the tank removal is required please contact me for a specific time (505)-326-9497.

Sincerely,

Steven Moskal

**BP** America Production Company

### Moskal, Steven

From:	Smith, Cory, EMNRD <cory.smith@state.nm.us></cory.smith@state.nm.us>
Sent:	Wednesday, October 12, 2016 3:45 PM
То:	Moskal, Steven; Fields, Vanessa, EMNRD; l1thomas@blm.gov
Cc:	jeffcblagg@aol.com; blagg_njv@yahoo.com
Subject:	RE: BP Pit Close Notification -Hughes B 005A

Steve,

OCD District III gives approval to complete these BGT closures prior to the 72 hours notification, due to the BGT being closed as a result of a release. With the following conditions of approval,

- BP must get approval from the land owner to waive the 72 hour notification requirement,
- BP must fully remediate the release following 19.15.28 NMAC
- BP will follow their standard BGT closure plan, and will request to have the BGT closure plan approved from Santa Fe.
- BP will notify OCD at least 24 hours prior to sampling.

OCD approval does not relieve BP of any other requirements imposed by other regulatory agencies.

If you have any questions please give me a call.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Moskal, Steven [mailto:Steven.Moskal@bp.com]
Sent: Wednesday, October 12, 2016 3:34 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Fields, Vanessa, EMNRD <<u>Vanessa.Fields@state.nm.us</u>>;
<u>I1thomas@blm.gov</u>
Cc: jeffcblagg@aol.com; blagg\_njv@yahoo.com
Subject: BP Pit Close Notification -Hughes B 005A

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

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

October 12, 2016

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

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

Hughes B 005A API 30-045-26837 (E) Section 21 – T29N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT and a 21BBL BGT that will no longer be operational at this well site. The 95 bbl BGT requires remediation. We anticipate this work to start on or around October 14, 2016.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

(505) 326-9497

Steve Moskal BP Lower 48 – San Juan – Farmington Field Environmental Coordinator Office: (505) 326-9497 Cell: (505) 330-9179



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.

Farrah Railsback BGT Project Support 970-946-9199 -cell This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

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CLIENTE BP	BLAGG ENGINEERING, INC.	API#: 3004526837										
CLIENT: DI	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	TANK ID (if applicble):B										
FIELD REPORT:	PAGE #: of											
SITE INFORMATION	DATE STARTED: 10/14/16											
QUAD/UNIT: E SEC: 21 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM DATE FINISHED:												
	85'W SW/NW LEASE TYPE: FEDERALY STATE / FEE / INDIAN STRIKE PROD. FORMATION: MV CONTRACTOR: MBF - C. PARKS	ENVIRONMENTAL SPECIALIST(S): NJV										
REFERENCE POINT		GL ELEV.: 6,449'										
1) 21 BGT (SW/DB) - B		EARING FROM WH.: 101', S32E										
2)	GPS COORD.: DISTANCE/BI	EARING FROM W.H.:										
3)	GPS COORD.: DISTANCE/BI	EARING FROM W.H.:										
4)	GPS COORD.: DISTANCE/BI											
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING (ppm)										
1) SAMPLE ID: 5PC - TB @ 6' (2	21) - B SAMPLE DATE:10/14/16 SAMPLE TIME:0915 LAB ANALYSIS:80	15B/8021B/300.0 (CI) NA										
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:											
3) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:											
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:											
	SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER											
SOIL COLOR: DARK YELLOW												
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LO												
MOISTURE: DRY/SLIGHTLYMOIST/MOIST/WE	ET / SATURATED / SUPER SATURATED											
SAMPLE TYPE: GRAB (COMPOSITE) #		ANATION -										
	S: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION -											
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION -											
OTHER: MMOCD OR BLM REP. NOT PRESI	ENT TO WITNESS CONFIRMATION SAMPLING.											
SOIL IMPACT DIMENSION ESTIMATION:	NA ft. X NA ft. X NA ft. EXCAVATION ES	STIMATION (Cubic Yards) : NA										
	EAREST WATER SOURCE:	DCD TPH CLOSURE STD: ppm										
SITE SKETCH	BGT Located : off / on site PLOT PLAN circle: attached	M CALIB. READ. = NA ppm RF =0.52										
		M CALIB. GAS = NA ppm										
	N	/IE: <u>NA</u> am/pm DATE: <u>NA</u>										
	'Г	MISCELL. NOTES										
		WO:										
		REF #: P - 741										
	TANK	VID: VHIXONEVB2										
т	$\mathbf{B}, \sim 6' \longrightarrow \left( \begin{array}{c} x \\ x \\ x \end{array} \right)$	PJ #: Dormit data(a): 06/09/10										
		Permit date(s): 06/09/10 OCD Appr. date(s): 10/13/16										
	CONTAINMENT	ank OVM = Organic Vapor Meter ID ppm = parts per million										
		B BGT Sidewalls Visible: Y/ N										
	X - S.P.D.	BGT Sidewalls Visible: Y / N										
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	N DEPRESSION; B.G. = BELOW GRADE; B = BELOW, T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N										
	DW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: <b>10<sup>°</sup></b> E										
NOTES: GOOGLE EARTH IMAGE												
revised: 11/26/13		BEI1005E-6.SKF										

<b>Analytical Report</b>
Lab Order 1610736
Date Reported: 10/18/2016

### Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL Qual	Units	<b>DF</b> Date Analyzed	Ba
Lab ID:	1610736-002	Matrix:	MEOH (SOIL)	Received	Date: 10/15/2016 1:15:00 PM	
<b>Project:</b>	Hughes B 5A			Collection	Date: 10/14/2016 9:15:00 AM	
CLIENT:	Blagg Engineering		0	lient Samp	ole ID: 5PC-TB @ 6'(21)-B	

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	ND	30	mg/Kg	20	10/17/2016 1:10:52 PI	M 28108
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/17/2016 11:08:37	AM 28084
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/17/2016 11:08:37 #	AM 28084
Surr: DNOP	97.4	70-130	%Rec	1	10/17/2016 11:08:37 #	AM 28084
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	10/17/2016 11:37:18 4	AM 28066
Surr: BFB	83.4	68.3-144	%Rec	1	10/17/2016 11:37:18 4	AM 28066
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.021	mg/Kg	1	10/17/2016 11:37:18 /	M 28066
Toluene	ND	0.042	mg/Kg	1	10/17/2016 11:37:18 A	M 28066
Ethylbenzene	ND	0.042	mg/Kg	1	10/17/2016 11:37:18 A	AM 28066
Xylenes, Total	ND	0.083	mg/Kg	1	10/17/2016 11:37:18 A	AM 28066
Surr: 4-Bromofluorobenzene	95.9	80-120	%Rec	1	10/17/2016 11:37:18 A	M 28066

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

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>R RPD outside accepted recovery limits</li> </ul>	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPRRPD outside accepted recovery limitsRL

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

Client:Blagg EngineeringProject:Hughes B 5A

Sample ID MB-28108	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 28108	RunNo: 38011		
Prep Date: 10/17/2016	Analysis Date: 10/17/2016	SeqNo: 1184848	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-28108	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-28108 Client ID: LCSS	SampType: LCS Batch ID: 28108	TestCode: EPA Method RunNo: 38011	300.0: Anions	
			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 28108 Analysis Date: 10/17/2016	RunNo: 38011		RPDLimit 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
- R RPD outside accepted recovery limits
- 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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Sample ID       LCS-28084       SampType:       LCS       TestCode:       EPA Method 8015M/D: Diesel Range Organics         Client ID:       LCSS       Batch ID:       28084       RunNo:       37981         Prep Date:       10/17/2016       SeqNo:       1183848       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quadity         Diesel Range Organics (DRO)       50       10       50.00       0       100       62.6       124         Surr: DNOP       4.6       5.000       91.8       70       130       10       100       10       100       10       100       10       10       10       10       10       10       10       10 <td< th=""></td<>
Prep Date:       10/17/2016       SeqNo:       1183848       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qua         Diesel Range Organics (DRO)       50       10       50.00       0       100       62.6       124       130         Surr: DNOP       4.6       5.000       91.8       70       130       130       130         Sample ID       MB-28084       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics       Client ID:       PBS       Batch ID:       28084       RunNo:       37981         Prep Date:       10/17/2016       Analysis Date:       10/17/2016       SeqNo:       1183849       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qua
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quadratic         Diesel Range Organics (DR0)       50       10       50.00       0       100       62.6       124         Surr: DNOP       4.6       5.000       91.8       70       130       130         Sample ID       MB-28084       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28084       RunNo:       37981         Prep Date:       10/17/2016       SeqNo:       1183849       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quadratic
Diesel Range Organics (DRO)         50         10         50.00         0         100         62.6         124           Surr: DNOP         4.6         5.000         91.8         70         130           Sample ID         MB-28084         SampType:         MBLK         TestCode:         EPA Method 8015M/D: Diesel Range Organics           Client ID:         PBS         Batch ID:         28084         RunNo:         37981           Prep Date:         10/17/2016         Analysis Date:         10/17/2016         SeqNo:         1183849         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Quadity
Surr: DNOP       4.6       5.000       91.8       70       130         Sample ID       MB-28084       SampType:       MBLK       TestCode:       EPA Method       8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28084       RunNo:       37981         Prep Date:       10/17/2016       SeqNo:       1183849       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quart
Sample ID       MB-28084       SampType:       MBLK       TestCode:       EPA Method       8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28084       RunNo:       37981         Prep Date:       10/17/2016       Analysis Date:       10/17/2016       SeqNo:       1183849       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quad
Client ID:     PBS     Batch ID:     28084     RunNo:     37981       Prep Date:     10/17/2016     SeqNo:     1183849     Units:     mg/Kg       Analyte     Result     PQL     SPK value     SPK Ref Val     %REC     LowLimit     HighLimit     %RPD     RPDLimit     Quark
Prep Date:       10/17/2016       SeqNo:       1183849       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Quadratic
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Viesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50
Surr: DNOP 9.9 10.00 98.8 70 130
Sample ID MB-28076 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 28076 RunNo: 37981
Prep Date: 10/14/2016 Analysis Date: 10/17/2016 SeqNo: 1184449 Units: %Rec
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua

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
- R RPD outside accepted recovery limits
- 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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### Client: Blagg Engineering

Project: Hughes B 5A

Sample ID MB-28066	SampT	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batcl	Batch ID: 28066 RunNo: 37988								
Prep Date: 10/14/2016	Analysis D	nalysis Date: 10/17/2016 SeqNo: 1184548 Units				Units: mg/M	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	810		1000		81.3	68.3	144			
Sample ID LCS-28066	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	h ID: 28	066	F	RunNo: 3	7988				
Prep Date: 10/14/2016	Analysis D	Date: 10	0/17/2016	S	SeqNo: 1	184549	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	74.6	123			
Surr: BFB										
SUII. DFD	890		1000		89.4	68.3	144			

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
- R RPD outside accepted recovery limits
- 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 Engineering

Project: Hughes B 5A

Sample ID MB-28066	SampType: MBLK TestCode: EPA Method 8021B: Volatiles													
Client ID: PBS	Batc	h ID: 28	066	F	RunNo: 3									
Prep Date: 10/14/2016	Analysis [	Date: 10	0/17/2016	S	SeqNo: 1	184561	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene						80	120							
Sample ID LCS-28066	Samp1	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles						
Client ID: LCSS	Batcl	h ID: 28	066	F	RunNo: 3	7988								
Prep Date: 10/14/2016	Analysis E	Date: 10	0/17/2016	S	SeqNo: 1	184562	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.93	0.025	1.000	0	92.6	75.2	115							
Toluene	0.96	0.050	1.000	0	96.1	80.7	112							
Ethylbenzene	0.99	0.050	1.000	0	98.6	78.9	117							
Xylenes, Total	2.9	0.10	3.000	0	97.9	79.2	115							
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120							

#### Qualifiers:

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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
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WO#: 1610736 18-Oct-16

ANALYSIS LABORATORY	TEL: 505-345-3975   Website: www.hal			Sample Log-in Check							
Client Name: BLAGG	Work Order Number:	161073	6		RcptNo:	1					
Received by/date:	10/15/16		1.12 I <b>18</b>								
Logged By: Lindsay Mangin	10/15/2016 1:15:00 PM		0	tradyttego							
Completed By: Lindsay Mangin	10/15/2018 2:10:50 PM		0	trady Hengo							
Reviewed By: As IoInily											
Chain of Custody											
1. Custody seals intact on sample bottles?		Yes		No 🗌	Not Present 🖈						
2. Is Chain of Custody complete?		Yes		No 🗌	Not Present						
3. How was the sample delivered?		Courie	<u>r</u>								
Log In											
4. Was an attempt made to cool the samples	2	Ver		No 🗌							
wwas an attempt made to cool the samples	ť	Yes									
5. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes		No 🗌							
6. Sample(s) in proper container(s)?		Yes		No 🗌							
7. Sufficient sample volume for indicated test	(s)?	Yes		No 🗌							
8. Are samples (except VOA and ONG) prope	rly preserved?	Yes		No 🗌							
9. Was preservative added to bottles?		Yes		No 🖈	NA 🗌						
10.VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🛃						
11. Were any sample containers received brok	en?	Yes		No 🛃	# of preserved						
10 -					bottles checked						
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🛄	for pH: (<2 o	r >12 unless n					
13. Are matrices correctly identified on Chain of	f Custody?	Yes	*	No 🗌	Adjusted?						
14. Is it clear what analyses were requested?		Yes		No 🗌							
15. Were all holding times able to be met?		Yes		No 🗌	Checked by:						
(If no, notify customer for authorization.)				,							
Special Handling (if applicable)											
16. Was client notified of all discrepancies with	this order?	Yes [		No 🗌	NA 🕢						
Person Notified:											
By Whom:	Date:	eMail	Dhar	Fax	In Person						
Regarding:	via.		Phone								
Client Instructions:											
·											
17. Additional remarks:											

Page 1 of 1

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Cł	nain-c	of-Cus	stody Record	Turn-Around	Гime:	SAME				н	AL	.L	EN		R	0	٩И	1EI	NT	AL	
Client:	BLAG	AGG ENGR. / BP AMERICA																	TO		
				Project Name		and the second second second				`	www	.hal	lenv	iron	mer	ntal.	com	n			
Mailing A	ddress:	P.O. BO	X 87	HUGHES B # 5A					4901 Hawkins NE - Albuquerque, NM 87109												
		BLOOM	FIELD, NM 87413	Project #:				Te	l. 50	5-34	5-39	75	Fa	x 50	05-3	345-4	4107	7			
Phone #:		(505) 63	2-1199									An	alys	sis R	Requ	uest					
email or F	ax#:			Project Manager:									-	14)		Τ		300.1)	Τ	Т	
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VI	ELEZ	<mark>4B1</mark> 5 (8021B)	is only)	/ MRO)			VS)	5	PO4,SU	Z PCB's			water - 30		4	υ
Accreditat	tion:			Sampler:	NELSON VI		Ť	1 (Ga	/ DRO	÷.	<del>.</del>	OSIN			808			m/0		-	N)
		□ Other		On Ice:	Z Yes _ ]	p No	I¥	+ TPI	102	418	504	827	s s	\ \ \ \ \ \ \	es /		Q	300.0 /		0 c+	or N
	ype)	T		Sample Temp	erature: 2/,2	1	H	TBE -	3 (GI	hod	pou	JO .	feta	), 1,	ticid	(A)	vi-V	1	-Io	pic	end X) si
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX + <del>M</del>	BTEX + MTBE + TPH (Gas	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NU <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SU <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil	mes yes		o pr. composite sa Air Bubbles (Y or N)
10/14/10	0925	COIL	CPC TD @ CL (OE) A	402-1	Gool	-1771	*		*									*		4	4
														+	+	+	-+-		+	+	+-1
10/14/16	0915	SOIL	5PC - TB @ 6' (21) - B	4 oz 1	Cool	-002	V		٧			+			-	-+-	+	v	+	1	
		1										+			+			+	+	+	+ 1
			· · · · · · · · · · · · · · · · · · ·													1	1	1	+	+	
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Date: 19/14/16	Time:	Relinquisb	advoy: VJ	Received by:	- I. hal	Date Time $D_{III}$	Ren	narks	5:										ICABL		
	1810 Time:	Relinquishe	ed by: //	Received by:	MART	//4// <sub>Le</sub> ) 8/0 , Date Time	-	,	VID:	2	nce H IXON					loska			n Rite		
Date:	2014	N	Mat Walla	VE	10	15/16 1315	1	eren	ce #		P - 7	41					2	<u> </u>	ITCJW		
	If necessary	, samples sub	mitted to Hall Environmental may be su	bcontracted to other a	accredited laboratorie	es. This serves as notice o	of this	possib	oility.	Any sul	o-contr	acted	data v	vill be	clear	ly nota	ated o	on the a	analytic	al rep	ort.



