District I 1625 N. French Dr., Hobbs, NM 88240 District II 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the Santa Fe, NM 87505***********************************
Pit, Below-Grade Tank, or
12440 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Type of action: 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
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Operator: BP America Production Company OGRID #:778
Address:200 Energy Court, Farmington, NM 87401
Facility or well name:Riddle A 3
API Number: 3004511791 OCD Permit Number:
U/L or Qtr/QtrA Section18 Township30N Range9W County:San Juan
Center of Proposed Design: Latitude36.81644Longitude107.81615NAD: □1927 ⊠ 1983 Surface Owner: ⊠ Federal □ State □ Private □ Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank B
Volume:95.0bbl Type of fluid:Produced water
Tank Construction material:Steel
Secondary containment with leak detection 🔲 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
🗋 Visible sidewalls and liner 🗌 Visible sidewalls only 🛛 Other _Single walled/single bottomed; side walls not visible
Liner type: Thicknessmil 🔲 HDPE 🗋 PVC 🗋 Other
4.

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

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

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

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

Alternate. Please specify_

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

Screen Netting Other_

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

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

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

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

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

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	🗌 Yes 🗌 No
- INM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map 	🔲 Yes 🗌 No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
^{10.} <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc</i> <i>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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 	
and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. Multi Well Elected Management Bit Chaptelist. Subsection D of 10.15.17.0 NMAC	
<u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.	cuments are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC 	15.17.9 NMAC
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. □ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC □ Climatological Factors Assessment □ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC □ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Uperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan	
Proposed Closure Method: Waste Excavation and Removal	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (Only for temporary pits and closed-loop systems)	
 In-place Burial On-site Trench Burial Alternative Closure Method 	
14.	
 closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	;
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ☐ No ☐ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗍 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🔲 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	 YesNo
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
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Form C-144 Oil Conservation Division Page 4 c	01.0

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain. - FEMA map	 ☐ Yes ☐ No ☐ Yes ☐ No
16.	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plant of the plant of the box, that the documents are attached. by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: Approval Date: 12/15 Title: OCD Permit Number: OCD Permit Number: OCD Permit Number:	720)4
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:2/28/2012	
20. Closure Method:	
Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo	oop systems only)

22. Operator Closure Certification:

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I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print):Jeff Peace
$\Lambda \rho \rho \rho$
Signature: Off gase

Title: Field Environmental Coordinator_____

Date:December	5,	2014
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e-mail address:__peace.jeffrey@bp.com_____

Telephone: __(505) 326-9479_

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Riddle A 3, BGT Tank B (95 bbl)</u> <u>API No. 3004511791</u> <u>Unit Letter A, Section 18, T30N, R9W</u>

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

General Closure Plan

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement. No notice was made due to misunderstanding of the BGT notice requirements at that time.
- 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.

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

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)

- d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)
 All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.
- 4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported to a storage area for sale and re-use.

- BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
 All equipment associated with the BCT has been removed
 - 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, Tank B	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	20
Chlorides	US EPA Method 300.0 or 4500B	250 or background	ND

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

Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

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

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- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil and has been reclaimed since the well was plugged and abandoned.

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

The area over the BGT has been reclaimed since the well was plugged and abandoned.

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

The area over the BGT has been reclaimed since the well was plugged and abandoned.

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

The area over the BGT has been reclaimed since the well was plugged and abandoned.

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

BP has seeded the area as part of final reclamation since the well was 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.

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

Closure report on C-144 form is included.

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe, NM 875	05			
Release Notificat	ion and Co	rrective A	ction		
	OPERA 1	OR	[] Initia	al Report	🛛 Final Repo
Name of Company: BP	Contact: Jeff	Peace		I	
Address: 200 Energy Court, Farmington, NM 87401		0.: 505-326-94	179		···· · · · · · · · · · · · · · · · · ·
Facility Name: Riddle A 3		: Natural gas			<u> </u>
			1 4 5 4 3		
Surface Owner: Federal Mineral Own	er: Federal		API No	. 30045117	91
	ION OF REL	EASE			
	orth/South Line orth	Feet from the 1,155	East/West Line East	County: Sa	n Juan
Latitude36.81644	Longitude	107.81615_			
NATU	RE OF RELE	CASE			
ype of Release: none	Volume of	Release: N/A	Volume R	ecovered: N	/A
Source of Release: below grade tank – 95 bbl, Tank B	Date and H	our of Occurrence		Hour of Disc	
Vas Immediate Notice Given?	If YES, To red	Whom?			
By Whom?	Date and H	our			
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.			u <u>, and</u> i	
f a Watercourse was Impacted, Describe Fully.*					
Describe Area Affected and Cleanup Action Taken.* BGT was remov backfilled and compacted and has been reclaimed and seeded since the I hereby certify that the information given above is true and complete	e well was plugged	and abandoned	I. Inderstand that purs	uant to NMC	OCD rules and
egulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and reme- or the environment. In addition, NMOCD acceptance of a C-141 repor- cederal, state, or local laws and/or regulations.	y the NMOCD ma diate contaminatic	rked as "Final R n that pose a thr the operator of	eport" does not reli eat to ground water responsibility for co	eve the opera , surface wat ompliance w	ntor of liability er, human health ith any other
Signature: Jeff Pasce	OIL CONSERVATION DIVISION			<u>N</u>	
Printed Name: Jeff Peace	Approved by I	Environmental S	pecialist:		
itle: Field Environmental Coordinator	Approval Date	:	Expiration I	Date:	
E-mail Address: peace.jeffrey@bp.com	Conditions of	Approval:		Attached	
Date: December 5, 2014 Phone: 505-326-9479				 	

BP BLAGG ENGINEERING, INC. API #::::::::::::::::::::::::::::::::::::
FIELD REPORT: (dide one): [BETCONFRONTION] / RELEASE INVESTIGATION / OTHER: PAGE #
FIELU KEPUKI: PAGE # _1 of _1 SITE INFORMATION: STERNAE RIDDLE A # 3 SITE INFORMATION: STERNAE RIDDLE A # 3 QUADUNT: A sec: 18 mar 300 reg 9W par NM cmm, SJ st NM 14: -1407007436E 915N/1,115S'E NE/NE LASEE # SF080243 PROD.FGRMATION PC CONTRACTOR MP -D. HAGA REFERENCE POINT: Well Head (WH) GPS COORD: 36.81637 X 107.81642 GLELEV: 6,199 1) -24 BGT (SWBB) - A GPS COORD: 36.8164X 107.81642 GLELEV: 6,199 2) -95 BGT (SWBB) - B GPS COORD: 36.8164X 107.81642 GLELEV: 6,199 2) -95 BGT (SWBB) - B GPS COORD: DBMCEARMAREMARKER DBMCEARMAREMARKER 3) GPS COORD: DBMCEARMAREMARKER DBMCEARMAREMARKER 72.91097 4) GPS COORD: DBMCEARMAREMARKER DBMCEARMAREMARKER 72.91097 3) SAMPLEID DBMCEARMAREMARKAKANER
QUADULITE À SEC. 18 TWP. 30N RNG. 9W PM. NM CNTY. SJ ST. NM DATEFINISHED 1/4.14/#COTAGE. 915N1/1,155'E NEINE LEASE TYPE. [FEDERAL] STATE / FEE / INDIAN BREMAINTAL 1/4.14/#COTAGE. 915N1/1,155'E NEINE LEASE TYPE. [FEDERAL] STATE / FEE / INDIAN BREMAINTAL 204201011 LEASE MERCINE POINT: Well HEAD (WH) GPS COORD: 36.81637 X 107.81642 GL ELEV: 6, 199' 21 95 BGT (SWISB) - B GPS COORD: 36.81644 X 107.81615 DBRACEBEARMS FROM WH: 72', N68E 2) 95 BGT (SWISB) - B GPS COORD: DBRACEBEARMS FROM WH: 72', N68E 3) GPS COORD: DBRACEBEARMS FROM WH: 72', N68E 3) GPS COORD: DBRACEBEARMS FROM WH: 72', N68E 3) GPS COORD: DBRACEBEARMS FROM WH: 72', N68E 2) SAMPLEID SAMELINE 01/ (95 BGT) SUBLEME 02/16/12 SMEREME 1310 DBRACEBEARMS FROM WH: 2) SAMPLEID SWEEDE HALL REFERENCE 000'//////////////////////////////////
1/4-1/4/FOOTAGE 915'N/1,155'E NE/NE LEASE TYPE [FEDERAL] STATE / FEE / INDIAN DWROMENTAL 1/4-1/4/FOOTAGE 915'N/1,155'E NE/NE LEASE TYPE [FEDERAL] STATE / FEE / INDIAN DWROMENTAL SPECIALIST(S) NJV REFERENCE POINT: WELL HEAD (WH) GPS COORD: 36,81637 X 107.81642 GL ELEX: 6,199' 1)
LEASE # SF080243 PROD. FORMATION PC CONTRACTOR MBF - D. HAGA SPECAULST(S) NJV REFERENCE POINT: WELL HEAD (W/H) GPS COORD: 36.81637 X 107.81642 GLELEV: 6,199 1) -21-90T (SWIDE) - A GPS COORD: 36.81644 X 107.81615 USIANCESEARING FROM WH: 72.57.N69W 2) 95 BGT (SWISE) - B GPS COORD: 36.81644 X 107.81615 USIANCESEARING FROM WH: 72.7.N68E 3) GPS COORD: DISTANCESEARING FROM WH: 0 0 0 0 4) GPS COORD: DISTANCESEARING FROM WH: 0
REFERENCE POINT: Well HEAD (WH) GPS COORD: 36.81637 X 107.81642 GL ELEV: 6,199 1) -1107 (SW05D) - A GPS COORD: 36.91645 X 107.91661 USIANCEBEARMS FROM WH 72.7, N69F 2) -95 BGT (SW/SB) - B GPS COORD: 36.81644 X 107.81615 DISTANCEBEARMS FROM WH 72.7, N69F 3) GPS COORD: DISTANCEBEARMS FROM WH 72.7, N69F 4) GPS COORD: DISTANCEBEARMS FROM WH 72.7, N69F 5) GPS COORD: DISTANCEBEARMS FROM WH 72.7, N69F 1) SAMPLE ID GPS COORD: DISTANCEBEARMS FROM WH 72.7, N69F 2) SAMPLE ID STOPTB @C (21 BGT) SMELTON PS COORD: DISTANCEBEARMS FROM WH 72.7, N69F 3) SAMPLE ID SAMPLE ID SMELTON SMELTON SMELTON SMELTON SMELTON NA 3) SAMPLE ID SMELTON: SOIL DESCRIPTION: SOIL TYPE (SAND / SILTY SAND) SILT / SILTY CAN / CLAY / GRAVEL / OTHER SOIL COLOR MODERATE TO DARK YELLOWSH BROWN DENSTY (COLARS ALISING VERY SMELTON / SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER DENSTY (COLARS ALISING VERY SMELTON / SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER DENSTY (COLARS ALISING VERY SM
2) 95 BGT (SW/SB) - B GPS COORD. 36,81644 X 107.81615 DISTANCEREARING FROM WH: 72,1,N68E 3) GPS COORD.: DISTANCEREARING FROM WH: 4) GPS COORD.: DISTANCEREARING FROM WH: SAMPLEIRO 5PC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/44 9) SAMPLEIRO 5PC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/44 9) SAMPLEIRO SPC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/44 9) SAMPLEIRO SPC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/44 9) SAMPLEIRO SPC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/44 9) SAMPLEIRO SPC-TB @ 72 (95 BGT) SWREDKE 02/16/12 SWRETIKE 1020 URAWYSS 418.1/8015/8021/308.0 (C) 1/4A 9) SAMPLEIRO SOULCORES (PARLEDKE SWRETCHE SWRETKE URAWYSS 418.1/8015/8021/308.0 (C) 1/4A 9) SAMPLEIRO SOULCORES (PARLEDKE SWRETKE 00/10/10/10/10/10/10/10/10/10/10/10/10/1
3) GPS COORD.: DISTANCEBEARING FROM WH: 4) GPS COORD.: DISTANCEBEARING FROM WH: 3) SAMPLEING STPC+TB_GP 0' (21 BGT) SWREENR 92/16/12 SWREENR 1320 DISTANCEBEARING FROM WH: 0/// Reaching 1) SAMPLEID: SPC+TB_GP 0' (21 BGT) SWREENR 02/16/12 SWREENR 1320 DISTANCEBEARING FROM WH: 0/// Reaching 2) SAMPLEID: SWREENR 02/16/12 SWREENR 1310 U/// WAYNS 418.1/8015/802/1/300.0 (C) N/A 3) SAMPLEID: SWREENR 02/16/12 SWREENR U/// WAYNS 418.1/8015/802/1/300.0 (C) N/A 4) SAMPLEID: SWREENR 02/16/12 SWREENR U/// WAYNS 10/// WAYNS SOIL DESCRIPTION: SOIL TYPE: SAND / SILT /
4) GPS COORD.: DISTANCEBEARING FROM WH:: SAMPLEING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL READA 1) SAMPLEID: SPO-TB @ 0' (21 BGT) SWREIME 120 DISTANCEBEARING FROM WH:: READA 2) SAMPLEID: SPO-TB @ 0' (25 BGT) SWREIME 02/16/12 SWREIME 1310 UB ANUSS: 418.1/8015/8021/300.0 (C) N/A 3) SAMPLEID: SWREIME SWREIME UB ANUSS: 418.1/8015/8021/300.0 (C) N/A 4) SAMPLEID: SWREIME SWREIME UB ANUSS: 418.1/8015/8021/300.0 (C) N/A 3) SAMPLEID: SWREIME SWREIME UB ANUSS: 418.1/8015/8021/300.0 (C) N/A 4) SAMPLE ID: SWREIME SWREIME UB ANUSS: 418.1/8015/8021/300.0 (C) N/A SOIL COLOR: MODERATE TO DARK YELLOWISH BROWN PARTITY CLAY / SRAWEL / OTHER SUBMUM TYPE: SAND'S SUBTY / CONSTRUCT/ SUBMUT PLASTIC / COMESME AND / SUBMUT PLASTIC /
SAMPLING DATA: CHAN OF CUSTODY RECORD(S) # OR LAB USED: HALL Redating of the standard of the stand
1) SAMPLE ID
2) SAMPLE ID: <u>5PC-TB</u> @ 7' (95 BGT) SAMPLEDATE <u>02/16/12</u> SAMPLETME <u>1310</u> URANAUSE <u>418.1/8015/8021/300.0 (Ci)</u> N/A 3) SAMPLE ID: <u>SAMPLETME</u> <u>URANAUSE</u> <u>418.1/8015/8021/300.0 (Ci)</u> N/A 4) SAMPLE ID: <u>SAMPLETME</u> <u>URANAUSE</u> SOIL DESCRIPTION: SOIL TYPE <u>SAND/SILTY SAND</u> SILT / SILTY CLAY / CLAY / CLAY / GRAVEL / OTHER SOIL COLOR: <u>MODERATE TO DARK YELLOWISH BROWN</u> CONSISTENCY (NON COHESNE SIGNED SILT) SOLE YEEL SAND / SILTY SAND CONSISTENCY (NON COHESNE SIGNED SILTY) SILTY SAND CONSISTENCY (NON COHESNE SILS): <u>LOOSE / FIRM</u>) DENSE / VERY DENSE MOSTURE: DRY <u>SILGHTY MORT / SULTAURATED</u> / JONG / WEAP SATURATED SAMPLE TYPE: <u>GRAB [COMPOSITE]</u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION - MARKED SIDE STIMATION: <u>NA</u> n. X <u>NA</u> n. X <u>NA</u> n. <u>X NA</u> N. <u>A</u> N.
3) SAMPLE ID
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SOIL COLOR: MODERATE TO DARK YELLOWISH BROWN CONESION (ALL OTHERS) [<u>NON CONESIVE</u>) SUGHTLY CONESIVE / HIGHLY CONESIVE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE CONSISTENCY (NON CONESIVE SOLUS): [<u>LOOSE / FIRM</u>] DENSE / VERY DENSE SAMPLE TYPE: GRAB [<u>COMPOSITE</u>] # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES [<u>NO</u>] EXPLANATION - ADDITIONAL COMMENTS: NO APPARENT EVIDENCE OF A RELEASE OBSERVED FROM EITHER BGT. SOIL IMPACT DIMENSION ESTIMATION: <u>NA</u> ft. X <u>NA</u> ft. X <u>NA</u> ft. EXCAVATION ESTIMATION (Cubic Yards)): <u>NA</u> DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE <u>>1,000'</u> NEAREST SURFACE WATER: <u><1,000'</u> NMOCD TPH CLOSURE STD <u>1,000</u> ppm SITE SKETCH BERM (S5) BERM (S5) (S
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM) DENSE / VERY DENSE WOISTURE: DRY SLIGHTYMOIST MOIST / WET / SATURATED / SUPER SATURATED / SAMPLE TYPE: GRAB (COMPOSITE) # OF PTS
MOISTURE: DRY SLIGHTLYMOIST MOIST WET/SATURATED / SUPER SATURATED / SUPER SATURATER SOURCE / 1,000 / NEAREST SURFACE WATER: SUPER SATURATED / SUPER SATURATER SOURCE / 1,000 / NEAREST SURFACE WATER: SATURATED / STITE SKETCH / SUPER SATURATER SOURCE / 1,000 / NEAREST SURFACE WATER: SATURATER SOURCE / 1,000 / NMOCD TPH CLOSURE STD: 1,000 / ppm RF=0.32 / OM/ CALLB READ =
SAMPLE TYPE: GRAB <u>COMPOSITE</u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION - ADDITIONAL COMMENTS: <u>NO APPARENT EVIDENCE OF A RELEASE OBSERVED FROM EITHER BGT</u> . SOIL IMPACT DIMENSION ESTIMATION: <u>NA</u> ft. X <u>NA</u> ft. <u>EXCAVATION ESTIMATION (Cubic Yards)</u> : <u>NA</u> DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1,000'</u> NEAREST SURFACE WATER: <u><1,000'</u> NMOCD TPH CLOSURE STD: <u>1,000</u> ppm SITE SKETCH <u>BERM</u> <u>(95)</u> <u>PBGTL</u> <u>1B.~7'</u> (95) <u>PBGTL</u> <u>1B.~7'</u>
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - ADDITIONAL COMMENTS: NO APPARENT EVIDENCE OF A RELEASE OBSERVED FROM EITHER BGT. SOIL IMPACT DIMENSION ESTIMATION: NA f. X NA f. X NA f. EXCAVATION ESTIMATION (Cubic Yards): NA DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD _1,000 ppm SITE SKETCH PLOT PLAN circle: attached OVM CALLB READ = NA ppm RF=0.52 OVM CALLB READ = NA ppm RF=0.52 OVM CALLB GAS = NA ppm RF=
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BERM (95) (95) PBGTL T.B. ~ 7' WO - N1540530 PO - 77166 PK - ZDCS01GEN1
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Z (^ x̂ ^ / T.B. ~ 7'
B.G
S.P.D. Permit date(s): 06/14/10
OCD Appr. date(s): 02/01/12 Tank
HEAD
A BOT Sidewaits Visible. Y / NA
INTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; Magnetic declination: 10° E
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; Magnetic declination: 10° E NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

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Analytical Report
Lab Order 1202768
Date Reported: 2/28/2012

Hall Environmental Analysis Laboratory, Inc.

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CLIENT: Blagg Engineering Client Sample ID: 5PC-TB @7' (95 BGT) Project: RIDDLE A #3 Collection Date: 2/16/2012 1:10:00 PM Lab ID: 1202768-001 Matrix: SOIL Received Date: 2/22/2012 9:54:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		======		Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/24/2012 10:35:02 AM
Surr: DNOP	94.1	77.4-131	%REC	1	2/24/2012 10:35:02 AM
EPA METHOD 8015B: GASOLINE RAM	IGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/24/2012 1:57:20 PM
Surr: BFB	105	69.7-121	%REC	1	2/24/2012 1:57:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	2/24/2012 1:57:20 PM
Toluene	ND	0.047	mg/Kg	1	2/24/2012 1:57:20 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/24/2012 1:57:20 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/24/2012 1:57:20 PM
Surr: 4-Bromofluorobenzene	105	85.3-139	%REC	1	2/24/2012 1:57:20 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	2/24/2012 12:50:27 PM
EPA METHOD 418.1: TPH					Analyst: JMP
Petroleum Hydrocarbons, TR	20	20	mg/Kg	1	2/27/2012

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.	

Client:Blagg EngineeringProject:RIDDLE A #3

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The second se											
Sample ID	LCS-841	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	LCSS	Batch	ID: 84	1	F	RunNo: 1	132				
Prep Date:	2/24/2012	Analysis Da	ate: 2 /	24/2012	S	SeqNo: 3	2040	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	· · · · · · · · · · · · · · · · · · ·	14	1.5	15.00	0	93.3	90	110			
Sample ID	1202768-001AMS	SampTy	/pe: MS	<u></u>	Tes	tCode: El	PA Method	300.0: Anior	is		
Client ID:	5PC-TB @7' (95 B	G Batch	ID: 84	1	F	RunNo: 1	132				
Prep Date:	2/24/2012	Analysis Da	ate: 2 /	24/2012	S	SeqNo: 3	2043	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	1.109	88.2	74.6	118			
Sample ID	1202768-001AMSD	SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	5PC-TB @7' (95 B	G Batch	ID: 84	1	F	lunNo: 1	132				
Prep Date:	2/24/2012	Analysis Da	ate: 2 /	24/2012	S	SeqNo: 3	2044	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	1.109	88.4	74.6	118	0.226	20	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1202768

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Hall Environmental Analysis Laboratory, Inc. Client: Blagg Engineering RIDDLE A #3 **Project:**

Sample ID MB-824	SampType: MBLK	TestCode: EPA Method	418.1: TPH	
Client ID: PBS	Batch ID: 824	RunNo: 1134		
Prep Date: 2/23/2012	Analysis Date: 2/27/2012	SeqNo: 32114	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20			
Sample ID LCS-824	SampType: LCS	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS	Batch ID: 824	RunNo: 1134		
Prep Date: 2/23/2012	Analysis Date: 2/27/2012	SeqNo: 32115	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 107 87.8	115	
Sample ID LCSD-824	SampType: LCSD	TestCode: EPA Method	418.1:'TPH	
Client ID: LCSS02	Batch ID: 824	RunNo: 1134		
Prep Date: 2/23/2012	Analysis Date: 2/27/2012	SeqNo: 32116	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 108 87.8	115 0.971	8.04

Qualifiers:

- Value exceeds Maximum Contaminant Level. */X
- Value above quantitation range Ε
- Analyte detected below quantitation limits J
- RPD outside accepted recovery-limits R

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit RL

1202768

WO#: 28-Feb-12

Hall Environmental Analysis Laboratory, Inc.

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4.888

Client:Blagg EngineeringProject:RIDDLE A #3

Sample ID	MB-823	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range	Organics	
Client ID:	PBS	Batch	n ID: 82	3	F	RunNo: 1	105				
Prep Date:	2/23/2012	Analysis D	ate: 2/	24/2012	8	SeqNo: 3	1514	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP		8.9		10.00		88.6	77.4	131			
Sample ID	LCS-823	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 82	3	F	RunNo: 1	105				
Client ID:PBSBatch ID:823Prep Date:2/23/2012Analysis Date:2/24/2012AnalyteResultPQLSPK vDiesel Range Organics (DRO)ND10Surr: DNOP8.911Sample IDLCS-823SampType:LCSClient ID:LCSSBatch ID:823Prep Date:2/23/2012Analysis Date:2/24/2012AnalyteResultPQLSPK vDiesel Range Organics (DRO)451056Sample ID1202768-001AMSSampType:MSClient ID:5PC-TB @7' (95 BGBatch ID:823Prep Date:2/23/2012Analysis Date:2/24/2012AnalyteResultPQLSPK vDiesel Range Organics (DRO)4.65.Prep Date:2/23/2012Analysis Date:2/24/2012AnalyteResultPQLSPK vDiesel Range Organics (DRO)429.744			24/2012	S	GeqNo: 3	1515	Units: mg/H	٩			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	10	50.00	0	90.6	62.7	139			
Surr: DNOP		4.6		5.000		91.3	77.4	131			
0	4000700 004 0000	0T									
Sample ID	1202768-001AMS	Sampi	ype: Mis	5	les	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	5PC-TB @7' (95 E	G Batch	ID: 82	3	F	RunNo: 1	105				
Prep Date:	2/23/2012	Analysis D	ate: 2/	24/2012	S	BeqNo: 3	1629	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	42	9.7	48.31	0	87.0	57.2	146			
Surr: DNOP		4.5		4.831		92.8	77.4	131			
Sample ID	1202768-001AMS	D SampT	ype: MS	5D	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID:	5PC-TB @7' (95 B	G Batch	ID: 82:	3	F	RunNo: 1	105				
Prep Date:	2/23/2012	Analysis D	ate: 2/	24/2012	5	SeqNo: 3	1630	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	9.8	48.88	0	85.9	57.2	146	0.118	26.7	

Qualifiers:

Surr: DNOP

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

94.9

77.4

131

0

0

RL Reporting Detection Limit

WO#: 1202768 28-Feb-12

Project:	00	A #3									
Sample ID	MB-822	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	je	
Client ID:	PBS	Batc	h ID: 82	2	F	RunNo: 1	114				
Prep Date:	2/23/2012	Analysis (Date: 2 /	/24/2012	S	SeqNo: 3	2306	Units: mg/l	≺g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0								
Surr: BFB		1,100		1,000		107	69.7	121			
Sample ID	LCS-822	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	16	
Client ID:	LCSS	Batc	h ID: 82	2	F	RunNo: 1	114				
Prep Date:	2/23/2012	Analysis E	Date: 2/	24/2012	S	BeqNo: 3	2334	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	25.00	0	106	98.5	133			
Surr: BFB		1,100		1,000		112	69.7	121			
Sample ID	1202768-001AMS	SampT	Гуре: М .	6	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	e	
Sample ID MB-822 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range Client ID: PBS Batch ID: 822 RunNo: 1114 Prep Date: 2/23/2012 Analysis Date: 2/24/2012 SeqNo: 32306 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0											
Prep Date:	2/23/2012	Analysis [)ate: 2 /	24/2012	S	SeqNo: 3	2335	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	29	4.7	23.56	0	122	85.4	147			
Surr: BFB		1,000		942.5		108	69.7	121			
Sample ID	1202768-001AMS) Samp1	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	5PC-TB @7' (95 B	G Batch	n ID: 82	2	F	tunNo: 1	114				
Prep Date:	2/23/2012	Analysis D)ate: 2 /	24/2012	S	eqNo: 3	2336	Units: mg/M	(g		
					SPK Ref Val						Qual
-	e Organics (GRO)		4.7		0						
Surr: BFB		1,100		942.5		115	69.7	121	0	0	

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

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Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

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- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1202768 28-Feb-12

Hall Environmental Analysis Laboratory, Inc.

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Client: Project:	Blagg En RIDDLE	ngineering C A #3						<u> </u>			
Sample ID	 MB-822	Samp	Type: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	•	h ID: 82			RunNo: 1			•••••		
Prep Date:	2/23/2012	Analysis [SegNo: 3		Units: mg/l	۲a		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050			701120	LOWEMIN				
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	1.1		1.000		108	85.3	139			
Sample ID	LCS-822	Samp	 Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 82	2	F	RunNo: 1	114				
Prep Date:	2/23/2012	Analysis [Date: 2/	24/2012	5	SeqNo: 3	2346	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.050	1.000	0	98.6	83.3	107			
Toluene		0.95	0.050	1.000	0	94.6	74.3	115			
Ethylbenzene		0.99	0.050	1.000	0	99.4	80.9	122			
Xylenes, Total		3.1	0.10	3.000	0	103	85.2	123			
Surr: 4-Brom	ofluorobenzene	1.2		1.000	. <u></u>	122	85.3	139			
Sample ID	1202770-001AMS	SampT	Type: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles	<u></u>	
Client ID:	BatchQC	Batcl	h ID: 82	2	F	RunNo: 1	114				
Prep Date:	2/23/2012	Analysis D	Date: 2 /	24/2012	S	SeqNo: 3	2347	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.049	0.9709	0	102	67.2	113			
Toluene		0.98	0.049	0.9709	0	100	62.1	116			
Ethylbenzene		1.0	0.049	0.9709	0	105	67.9	127			
Xylenes, Total		3.1	0.097	2.913	0	108	60.6	134			
Surr: 4-Brom	ofluorobenzene	1.1		0.9709		115	85.3	139			
Sample ID	1202770-001AMSE) SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batch	n ID: 82	2	R	lunNo: 1	114				
Prep Date:	2/23/2012	Analysis E	Date: 2/	24/2012	S	eqNo: 3	2348	Units: mg/H	٢g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.047	0.9363	0	103	67.2	113	2.17	14.3	
Toluene		0.95	0.047	0.9363	0	101	62.1	116	2.97	15.9	
Ethylbenzene		1.0	0.047	0.9363	0	107	67.9	127	1.37	14.4	
Xylenes, Total		3.1	0.094	2.809	0	110	60.6	134	1.52	12.6	
Surr: 4-Brom	ofluorobenzene	0.91		0.9363		96.9	85.3	139	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- RPD outside accepted recovery limits R

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1202768

28-Feb-12

• `` Hall Environmental Analysis Laboratory HALL VIRONMENTAL 4901 Hawkins NE Albuquerque, NM 87105 ANALYSIS TEL: 505-345-3975 FAX: 505-345-410; LABORATORY Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name:	BLAGG	W	ork Order Number	r: 1202768
Received by/date	AG 6	2/22/12		·
Logged By:	Michelle Garcia	2/22/2012 9:54:00 AM	-1	Nurul Conurs Nurul Conurs
Completed By:	Michelle Garcia	2/23/2012 8:34:21 AM	-11	Milelle Consider
Reviewed By:	A2 2	22/12		
Chain of Cust	ody A	,,		
1. Were seals in	ntact?		Yes 🗌 No 🗌	Not Present 🗹
2. Is Chain of C	ustody complete?		Yes 🗹 No 🗌	Not Present
3. How was the	sample delivered?		Courier	
<u>Log In</u>				
4, Coolers are p	present? (see 19. for coo	ler specific information)	Yes 🗹 No 🗌	
5. Was an atten	npt made to cool the sar	nples?	Yes 🗹 No 🗌	
6. Were all sam	ples received at a temp	erature of >0° C to 6.0°C	Yes 🗹 No 🗌] NA []
7. Sample(s) in	proper container(s)?		Yes 🗹 No 🗌	
8. Sufficient sar	nple volume for indicate	d test(s)?	Yes 🗹 No 🗌]
9. Are samples	(except VOA and ONG)	property preserved?	Yes 🗹 No 🗌	
10. Was preserva	ative added to bottles?		Yes 🗌 No 🗹	
11. VOA vials ha	ve zero headspace?		Yes 🗌 No 🗌	No VOA Vials 🗹
12. Were any sar	mple containers received	l broken?	Yes 🗌 No 🗹	
	ork match bottle labels? ancies on chain of custo	idy)	Yes 🗹 No 🗌	# of preserved bottles checked for pH:
14. Are matrices	correctly identified on Ci	hain of Custody?	Yes 🗹 No 🗌	(<2 or >12 unless noted)
15. Is it clear what	at analyses were request	red?	Yes 🗹 No 🗌] Adjusted?
	ing times able to be met		Yes 🗹 No 🗌	
• • •	sustomer for authorizatio	n.)		Checked by:
<u>Special Handli</u>	ing (if applicable)			
17. Was client no	tified of all discrepancie	s with this order?	Yes 🗌 No 🗌	
Person I	Notified:	Date:		
By Who	m:	Via:] eMail 🗌 Phon	ne 🗌 Fax 🛄 In Person
Regardi				
Client In	structions:			

18. Additional remarks:

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19. Cooler Information

	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
ſ	1	1.0	Good	Yes			

Client:	BLAG	g Engr.	/ BP AMERICA	Standard	🗌 Rush _				'		ALI NAI								-	
				Project Name:							/ww.h							. •		
Mailing Ad	ldress:	P.O. BO)	(87		RIDDLE A #	‡ 3	i I	49(01 H		s NE									
	·····	BLOOMP	FIELD, NM 87413	Project #:		<u> </u>	1				5-3975		-		5-345-4107					
Phone #:		(505) 63	2-1199							21 1 4 4 21 1 4 4 1 1 4 4 4 1 4 1 4 1 4 1 4 1 4 1		Anal	ysis	Rec	lues	t				
email or Fa	ax#:		····	Project Manag	er:	/							S04)							
QA/QC Pac 🖸 Standa	-		Level 4 (Full Validation)		NELSON VE	LEZ JEFF BLAGE														
Accreditation:		Sampler: On ice:	NELSON VE	LEZ JEFF BACK	1418-5-(80218)	PH (Gas	6B (Gas,	.	(i)		, NO2,	8082 P(sample			
			· · · · · · · · · · · · · · · · · · ·		erature:) _ T			11 +	801	418	PAH 204	2	EON	es /		(Yo	ô		site	
Date	Tìme	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX + MTDE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1) 8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	Grab sample	5 pt. composite sample	
2/16/12	1310	SOIL	5PC-TB @ 7' (95 BGT)	4 oz 2	Cool	-	۷	·	۷	٧							V		V	
3/16/12	1320	SOIL	<u>-5PC TB @ 6' (21 BGT)</u> -	4-922		-2	*		*								V	\mp	V	
									Π											
												1						-		
																			1	
										\neg		1								
							1			-+	-+	<u>†</u>						+		
							1		\neg	$\neg \uparrow$		+							1	
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	nark] 5:	TPH	(8015	B) -	GRC	8	DRO	ON	LY.		L	
/21/12	0 2 53	1 Infl	Blyy	Monto.	1.) a L.	2/12 0853			RECT	ly to	BP:									
Date:	Time:	Rélinquish	ed by:	Received by:		Date Time					ergy C									
4.1	11.29	h.		Et2	- 2/0-	alla and	W	ork O	rder	: <u>N</u> :	.5405	30	Pa	ayke	y: _Z	DCS	01GE	N1		

