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

Alternative Method:

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.

Proposed Alternative Method Permit or Closure Plan Application Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method MAY 26 2015 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.
Operator: BP America Production CompanyOGRID #:778 Address:200 Energy Court, Farmington, NM 87401
Facility or well name:Hutchin LS 1
API Number:3004510915 OCD Permit Number:
U/L or Qtr/QtrGSection7Township31NRange10WCounty:San Juan
Center of Proposed Design: Latitude36.91541 Longitude107.92021 NAD: ☐ 1927 ☒ 1983 Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment
Surface Owner. Trederal State Frivate Tribal Trust of Indian Allounent
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
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank A 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 _Double walled/double bottomed; side walls not visible
Liner type: Thicknessmil

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

5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution on always)	hospital,
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
6.	
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)	
7. Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:	
☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	ntable course
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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)	☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
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;.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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 application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of	
initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.	NMAC
and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. 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 do 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:	

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	documents are
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 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 ☐ 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	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	rce material are Please refer to
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
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
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland.	
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
WHITH INCOMPORATED BUILDING DOUBLISHED OF WILDING DETINED BUILDING Track Water Wall field covered under a municipal and and and an arrival and an arrival and an arrival and arrival arrival and arrival arrival and arrival arrival arrival and arrival arrival arrival arrival arrival arrival arrival and arrival arriv	I .

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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.	Yes No
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC .15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	ief.
Name (Print): Title:	
Claustone.	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	2015 If the closure report.
e-mail address: Telephone:	2015 If the closure report.
e-mail address: Telephone:	the closure report.

22.									
Operator Closure Certification:									
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.									
Name (Print):Jeff Peace	Title: Field Environmental Coordinator								
Signature: If Posce	Date:May 22, 2015								
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

Hutchin LS 1 API No. 3004510915 Unit Letter G, Section 7, T31N, R10W

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

General Closure Plan

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

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	0.38
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	413.38
TPH	US EPA Method SW-846 418.1	100	14,000
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 obviously impacted. A sample taken at 13 feet below the BGT resulted in chloride levels below the stated limits, but TPH and BTEX were well above the limits, as show in the table above. A soil

sample taken at 14 feet below the BGT was below the stated limits. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 - Sampling results indicate a release occurred. The release was addressed through the spill and release guidelines.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area
 - The area under the BGT was backfilled with clean soil and is still within the active well area.
- 10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.
 - The area over the BGT is covered by the raised compressor pad and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.
- 11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.
 - The area over the BGT is covered by the raised compressor pad and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.
- 12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area over the BGT is covered by the raised compressor pad and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

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

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

BP will notify NMOCD when re-vegetation is successful.

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

 Closure report on C-144 form is included.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

ubmit 1 Copy to appropriate District Office in

Form C-141

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.

			Rele	ease Notific	cation	n and Co	orrective A	ction	n			
						OPERA	ГOR			al Report		Final Repo
Name of Co	ompany: B	P		1:	9	Contact: Jeff Peace						
		Court, Farmi	ington, N	M 87401		Telephone No.: 505-326-9479						
Facility Na	ne: Hutch	in LS 1				Facility Type: Natural gas well						
Surface Ow	ner: Privat	te		Mineral (Owner: 1	Private			API No	o. 3004510	915	
				LOCA	ATION	N OF REI	LEASE					
Unit Letter G	Section 7	Township 31N	Range 10W	Feet from the 1,700	North/ North	South Line	Feet from the 1,650	East/ East	West Line	County: S	an Juan	1
		Lat	itude3	5.91541		_ Longitud	e107.92021_			1		
				NAT	TURE	OF REL	EASE					
Type of Rele						Volume of	Release: unknow	/n	Volume I	Recovered: 1	none	
Source of Re	lease: below	v grade tank –	95 bbl				Iour of Occurrence	ce:		Hour of Dis	covery	: June 25,
Was Immedia	ate Notice (Given?				unknown If YES, To	Whom?		2012; 12:	48 PW		
			Yes 🛛	No Not R	equired	125, 10						
By Whom?						Date and H						
Was a Water	course Read	ched?	N	3.7		If YES, Vo	lume Impacting t	the Wat	ercourse.			
			Yes 🛚	No								
If a Watercou	irse was Im	pacted, Descri	ibe Fully.*									
observation in transported to	ndicated a r a landfarm	elease occurre	ed. The relation A C-141	ease was address final will be sub	sed throu	igh the spill a	nderneath the BG nd release guideli the remediation	ines and	l impacted s	soil was exc	avated a	and
regulations al public health should their o	I operators or the envir operations hament. In a	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications are NMOCD made contamination	knowledge and und perform correctarked as "Final Roon that pose a three the operator of the control of the cont	tive act eport" d eat to gr	ions for rele loes not reli round water	eases which ieve the open r, surface wa	may en rator of ater, hur	ndanger `liability man health
Signature:	off P)					OIL CONS	SERV	ATION	DIVISIO	<u>)N</u>	
Printed Name					F	Approved by	Environmental S _I	pecialis	t:			
			r			Approval Dat	e:		Expiration	Date:		
	-mail Address: peace.jeffrey@bp.com				Conditions of			pnanon	Attached			
Date: May 22				5-326-9479								
Attach Addit	ional Shee	ets If Necessa	ary				NJKI	SIL	255	751		
							NOK	1.0				

CLIENT: BP	API#: 3004510915	
CLIENT	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	TANK ID (if applicble):
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:	PAGE #: 1 of 1
SITE INFORMATION	OANI AOMA NIBE OI NIBE	DATE STARTED: 06/25/12
QUAD/UNIT: G SEC: 7 TWP: 1/4 -1/4/F00TAGE: 1700'N / 1650		DATE FINISHED:
	LEASE TYPE: FEDERAL / STATE FEE INDIAN PROD. FORMATION: MV CONTRACTOR: MBF - C. ZELLITTI	ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POINT	00.51000 X 107.52000	GL ELEV.: 5,828'
1) 95 BGT (DW/DB)		EARING FROM W.H.: 106', \$28E
		EARING FROM W.H.: 110.5', S31E
3) TH2 (95 BGT)	GPS COORD.: 36.915485 X 107.920152 DISTANCE/E	BEARING FROM W.H.: 99', S40.5E
4)		EARING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	READING (ppm)
1) SAMPLE ID: TH1 @ 13' (95 B)	,	
2) SAMPLE ID: TH2 @ 14' (95 B)		15B/8021B/300.0 (CI) NA
3) SAMPLE ID:		
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
SOIL DESCRIPTION	0.1.7 0	THER
SOIL COLOR: MOD, BROWN / DK, YELL. COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY		/ COHESIVE / MEDILIM PLASTIC / HIGHLY PLASTIC
CONSISTENCY (NON COHESIVE SOILS) LC	OSE FIRM / DENSE / VERY DENSE DENSITY (COHESIVE CLAYS & SILTS): SOF	
MOISTURE: DRY SLIGHTLY MOIST MOIST / WE SAMPLE TYPE: GRAB COMPOSITE - #	THE SECRETE TEST TO EX	LANATION - DISCOLORED SOILS
	OF PTS. NO EXPLANATION - BGT PERIMETER ~ 0.5 - 1.0' BELOW GRADE & DIRECTL	Y BENEATH BGT. TH1 - ENTIRE EXTENT
(MEDIUM DARK GRAY).		
ANY AREAS DISPLAYING WETNESS: YES / NO		IDLV LOCT INTECDITY DENEATE
	BSERVED AND/OR OCCURRED: YES NO EXPLANATION: OVERFLOW & POSS ESTIMATION OF IMPACTED SOILS IS >350 CUBIC YARDS.	BLY LOST INTEGRITY BENEATH.
2000 2000 2000 000000000000000000000000		ETIMATION (Cubic Yards) : DCD TPH CLOSURE STD: ppm
SITE SKETCH	TO PLOT PLAN circle: attached OV	M CALIB. READ. = 51.2 ppm RF = 0.52
	W.H.	VI CALIB. GAS = 100 ppm
	TH2	E: 8:11 am/pm DATE: 06/25/12
	X	MISCELL. NOTES
		NO: N1570814
	PRGTI	PO#: 80250
	TB~5.5'	PK: ZSCHWLLBGT
	B.O.	PJ#: Z2-000690-C Permit date(s): 06/14/10
		OCD Appr. date(s): 05/16/12
	/ DEDM	ank D
	/ TO / PROD	BGT Sidewalls Visible: Y (N)
	/ FROD / X - S.P.D.	BGT Sidewalls Visible: Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELO	N DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; WGRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	BGT Sidewalls Visible: Y / N Magnetic declination: 10° E
TRAVEL NOTES: CALLOUT:	WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. ONSITE: 06/25/12	

Analytical Report

Lab Order 1206B23

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/29/2012

CLIENT: Blagg Engineering

Client Sample ID: TH1@13' (95 BGT)

Project: HUTCHIN LS #1

Collection Date: 6/25/2012 12:48:00 PM

Lab ID: 1206B23-001

Matrix: MEOH (SOIL) Received Date: 6/27/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	4100	100		mg/Kg	10	6/27/2012 12:56:23 PM
Surr: DNOP	0	77.6-140	S	%REC	10	6/27/2012 12:56:23 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	30		mg/Kg	20	6/27/2012 11:52:21 AM
EPA METHOD 8260B: VOLATILES S	HORT LIST					Analyst: RAA
Benzene	0.38	0.25		mg/Kg	5	6/27/2012 11:59:54 AM
Toluene	12	0.25		mg/Kg	5	6/27/2012 11:59:54 AM
Ethylbenzene	21	0.25		mg/Kg	5	6/27/2012 11:59:54 AM
Xylenes, Total	280	5.0		mg/Kg	50	6/27/2012 3:35:18 PM
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%REC	5	6/27/2012 11:59:54 AM
Surr: 4-Bromofluorobenzene	191	70-130	S	%REC	5	6/27/2012 11:59:54 AM
Surr: Dibromofluoromethane	89.6	71.7-132		%REC	5	6/27/2012 11:59:54 AM
Surr: Toluene-d8	100	70-130		%REC	5	6/27/2012 11:59:54 AM
EPA METHOD 8015B MOD: GASOLI	NE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	3500	250	×	mg/Kg	50	6/27/2012 3:35:18 PM
Surr: BFB	106	70-130		%REC	50	6/27/2012 3:35:18 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	14000	410		mg/Kg	20	6/27/2012 2:00:00 PM

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
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1206B23

Date Reported: 6/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH2@14' (95 BGT)

Project: HUTCHIN LS #1

Collection Date: 6/25/2012 1:04:00 PM

Lab ID: 1206B23-002

Matrix: MEOH (SOIL) Received Date: 6/27/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/27/2012 12:34:15 PM
Surr: DNOP	115	77.6-140	%REC	1	6/27/2012 12:34:15 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	30	mg/Kg	20	6/27/2012 12:04:46 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	6/27/2012 1:23:14 PM
Toluene	ND	0.050	mg/Kg	1	6/27/2012 1:23:14 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/27/2012 1:23:14 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/27/2012 1:23:14 PM
Surr: 1,2-Dichloroethane-d4	81.8	70-130	%REC	1	6/27/2012 1:23:14 PM
Surr: 4-Bromofluorobenzene	90.3	70-130	%REC	1	6/27/2012 1:23:14 PM
Surr: Dibromofluoromethane	82.8	71.7-132	%REC	1	6/27/2012 1:23:14 PM
Surr: Toluene-d8	87.5	70-130	%REC	1	6/27/2012 1:23:14 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/27/2012 1:23:14 PM
Surr: BFB	90.3	70-130	%REC	1	6/27/2012 1:23:14 PM

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
 - U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B23 29-Jun-12

Client:

Blagg Engineering

Project:

HUTCHIN LS #1

Sample ID: 1206A27-003BMS

SampType: MS

TestCode: EPA Method 300.0: Anions

LowLimit

TestCode: EPA Method 300.0: Anions

64.4

Client ID:

BatchQC

Batch ID: 2593

RunNo: 3740

%REC

97.9

Prep Date: 6/27/2012 Analysis Date: 6/27/2012

33.58

SeqNo: 105731

Units: mg/Kg

Analyte

Result 48

SPK Ref Val PQL SPK value

15.00

HighLimit

RPDLimit Qual

Chloride

Client ID:

Sample ID: 1206A27-003BMSD

BatchQC

SampType: MSD Batch ID: 2593

RunNo: 3740

Prep Date:

6/27/2012

7.5

SeqNo: 105732

Units: mg/Kg

117

Analyte

Analysis Date: 6/27/2012

HighLimit

RPDLimit

7.5

33.58

SPK value SPK Ref Val %REC

Qual

PQL 48

15.00

97.1

64.4

LowLimit

117

%RPD 0.254

20

Chloride

%RPD

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 3 of 7

RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B23

29-Jun-12

Client:

Blagg Engineering

Project:

HUTCHIN LS #1

Sample ID: MB-2602

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: Prep Date:

PBS

Batch ID: 2602 Analysis Date: 6/27/2012 RunNo: 3717

SeqNo: 105051

Units: mg/Kg

Qual

Analyte

6/27/2012

SPK value SPK Ref Val Result PQL

20

%REC

LowLimit

LowLimit

87.8

HighLimit

%RPD **RPDLimit**

Petroleum Hydrocarbons, TR

Sample ID: LCS-2602

SampType: LCS

ND

TestCode: EPA Method 418.1: TPH RunNo: 3717

Client ID: LCSS Prep Date: 6/27/2012

Batch ID: 2602

PQL

20

Analysis Date: 6/27/2012

SPK value SPK Ref Val

100.0

SeqNo: 105052

HighLimit

Units: mg/Kg

115

RPDLimit

Qual

Qual

Petroleum Hydrocarbons, TR Sample ID: LCSD-2602

97 SampType: LCSD

Result

TestCode: EPA Method 418.1: TPH

%REC

97.1

RunNo: 3717

Client ID: LCSS02

Batch ID: 2602

Prep Date:

Analyte

6/27/2012

Analysis Date: 6/27/2012

SeqNo: 105053

Units: mg/Kg

Analyte

SPK value SPK Ref Val PQL

%REC

LowLimit

HighLimit 115 %RPD

%RPD

RPDLimit

Petroleum Hydrocarbons, TR

100.0 20

94.6

2.61

8.04

Oualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

В

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 7

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B23

29-Jun-12

Client:

Blagg Engineering

Project:

HUTCHIN LS #1

Tioject.	11 25 11 1								
Sample ID: MB-2601 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics									
Client ID: PBS	Batch ID: 26	Batch ID: 2601 RunNo: 3705							
Prep Date: 6/27/2012	Analysis Date: 6	/27/2012	5	SeqNo: 1	05014	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	11	10.00		106	77.6	140			
Sample ID: LCS-2601	SampType: L0	cs	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Batch ID: 26	01	F	RunNo: 3	705				
Prep Date: 6/27/2012	Analysis Date: 6	/27/2012	8	SeqNo: 1	05019	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45 10	50.00	0	89.3	52.6	130			
Surr: DNOP	4.2	5.000		85.0	77.6	140			
Sample ID: 1206A97-001AMS	SampType: M	S	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: BatchQC	Batch ID: 26	01	F	RunNo: 3	730				
Prep Date: 6/27/2012	Analysis Date: 6	/28/2012	8	SeqNo: 10	05493	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42 9.9	49.50	0	84.6	57.2	146			
Surr: DNOP	4.4	4.950		88.7	77.6	140			

Sample ID: 1206A97-001AMSE	SampTy	pe: MS	SD	Test	tCode: El	PA Method	8015B: Dies	B: Diesel Range Organics									
Client ID: BatchQC	Batch ID: 2601 RunNo: 3730																
Prep Date: 6/27/2012	Analysis Da	nalysis Date: 6/28/2012 SeqNo: 105523				Units: mg/K	(g										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Diesel Range Organics (DRO)	42	10	50.40	0	82.9	57.2	146	0.286	24.5								
Surr: DNOP	4.3		5.040		84.9	77.6	140	0	0								

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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B23 29-Jun-12

Client: Project: Blagg Engineering HUTCHIN LS #1

Sample ID: 5ml rb SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: R3719 RunNo: 3719 Prep Date: Analysis Date: 6/27/2012 SeqNo: 105656 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 0.050 Toluene ND Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 70 Surr: 1,2-Dichloroethane-d4 0.43 0.5000 86.4 130 Surr: 4-Bromofluorobenzene 0.48 0.5000 96.0 70 130 132 Surr: Dibromofluoromethane 0.43 0.5000 85.5 71.7 Surr: Toluene-d8 0.45 0.5000 89.9 70 130

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: LCSS	Batch	ID: R3	719	F										
Prep Date:	Analysis D	Analysis Date: 6/27/2012			SeqNo: 10	05657	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.93	0.050	1.000	0	92.9	70.7	123							
Toluene	0.91	0.050	1.000	0	91.5	80	120							
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.0	70	130							
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130							
Surr: Dibromofluoromethane	0.40		0.5000		79.4	71.7	132							
Surr: Toluene-d8	0.43		0.5000		85.4	70	130							

Qualifiers:

^{*/}X Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B23

29-Jun-12

Client:

Blagg Engineering

Project:

HUTCHIN LS #1

Sample	ID:	2.5ug	gro	lcs

SampType: LCS

TestCode: EPA Method 8015B Mod: Gasoline Range

Client ID: LCSS

Batch ID: R3719

PQL

RunNo: 3719

Prep Date:

Analysis Date: 6/27/2012

SegNo: 105644

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Surr: BFB

24 5.0 470

SPK value SPK Ref Val %REC LowLimit

98.0

94.2

HighLimit %RPD **RPDLimit** Qual 115 130

%RPD

RPDLimit

0

RPDLimit

Qual

Qual

Sample ID: 1206b23-002a ms g

Client ID: TH2@14' (95 BGT)

SampType: MS Batch ID: R3719 TestCode: EPA Method 8015B Mod: Gasoline Range

RunNo: 3719

85

70

Prep Date:

Analysis Date: 6/27/2012

Result

SegNo: 105646

Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit Analyte 20 0 Gasoline Range Organics (GRO) 5.0 20.13 100 70 130 350 Surr: BFB 402.7 86.8 70 130

25.00

500.0

Sample ID: 1206b23-002a msd g SampType: MSD

Result

20

360

TestCode: EPA Method 8015B Mod: Gasoline Range

70

LowLimit

70

Client ID: TH2@14' (95 BGT)

Batch ID: R3719

PQL

5.0

RunNo: 3719

Prep Date:

Analyte

Analysis Date: 6/27/2012

SeqNo: 105647 %REC

97.7

88.7

Units: mg/Kg

LowLimit HighLimit %RPD **RPDLimit** Qual 70 130 2.67 20

0

%RPD

Sample ID: 5ml rb

Surr: BFB

SampType: MBLK

TestCode: EPA Method 8015B Mod: Gasoline Range

Client ID:

PBS

Gasoline Range Organics (GRO)

Batch ID: R3719

PQL

RunNo: 3719

130

Prep Date:

Analysis Date: 6/27/2012

Result

480

SeqNo: 105678

Units: mg/Kg HighLimit

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 5.0

500.0

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

20.13

402.7

96.0

130

Qualifiers:

R

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit Reporting Detection Limit

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Number: 1206B23
Received by/date: O(a)27/12	111110
Logged By: Lindsay Mangin 042/12 10:00:00 AM	Spandy Halify D
Completed By: Lindsay Mangin 6/27/2012 10:19:00 A	AM Stranger
Reviewed By: 0 (2) 17	
Chain of Custody	
1. Were seals intact?	Yes ☐ No ☐ Not Present ✔
2. Is Chain of Custody complete?	Yes ✓ No Not Present
3. How was the sample delivered?	Courier
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific information)	Yes ✓ No □ NA □
5. Was an attempt made to cool the samples?	Yes ₩ No NA NA
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ₩ No NA NA
7 Sample(s) in proper container(s)?	Yes ✓ No □
8 Sufficient sample volume for indicated test(s)?	Yes ☑ No □
Are samples (except VOA and ONG) properly preserved?	Yes ✓ No
10. Was preservative added to bottles?	Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace?	Yes ☐ No ☐ No VOA Vials ✔
12. Were any sample containers received broken?	Yes No 🗹
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✓ No ☐ # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes No (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes No Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✓ No □
Special Handling (if applicable)	Checked by:
17. Was client notified of all discrepancies with this order?	Yes ☐ No ☐ NA 🗸
LAAAMININ AND A SECOND	Tes Live Live Live Live Live Live Live Live
Person Notified: Date: By Whom: Via:	-Mail Change - Face - La Parrage
By Whom: Via: Regarding:	eMail Phone Fax In Person
Client Instructions:	
18, Additional remarks:	•
19. Cooler Information	8
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date Signed By
1 4.0 Good Yes	

Chain-of-Custody Record		Turn-Around Time:			HALL ENVIRONMENTAL																	
Client: BLAGG ENGR. / BP AMERICA				☐ Standard					ANALYSIS LABORATORY													,
			Project Name:				www.hallenvironmental.com															
Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413			HUTCHIN LS # 1				4901 Hawkins NE - Albuquerque, NM 87109															
			Project #:						05-3				Fax									
Phone #: (505) 632-1199			-								No. of Lot	STREET, STREET,	ysis	-	DESCRIPTION OF THE PARTY NAMED IN	Name of Street						
email or Fax#:			Project Manag	ger:																		
QA/QC Package: Standard Level 4 (Full Validation)			NELSON VELEZ			₹(8021B)	+ TPH (Gas only)	Method 8015B (Gas/Diesel)					PO4, SO4)	B's						41		
Accreditat				Sampler:	NELSON V	ELEZ	₹(80	Gas	Gas/						8082 PCB's						mple	
□ NELAP □ Other			Onice: Yes , No			1	TPH (15B (418.1)	4.1)	Œ	als	3, N	808/						e sai	E	
□ EDD (Type)		Sample Temperature: 4,0			Ţ		d 80	od 41	od 50	or PA	I, NC		ides	2	VOA	(0.00		e	osit	\ >		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-WITE	BTEX + MTBE	TPH Metho	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	Air Rubblec IV or
6/25/12	1248	SOIL	TH1 @ 13' (95 BGT)	4 oz 2	Cool	-001	٧		٧	٧								٧		٧		
								_														
6/25/12	1304	SOIL	TH2 @ 14' (95 BGT)	4 oz 1	Cool	-002	٧		٧									٧		V		
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Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	nark	s:	TPH	1 (80	015	B) -	GRO	.8	DRC	10 (ILY.				_
6/26/12 1600 MMm VM		/ Martin	No. 11-01-	6/20/12 1600	BIL	L DI	RECT	LYT	О ВР	:												
Date:	Time:	Relinquishe	ed by:	Received by:	111	Date Time	1											7401				
/21/2 1751 Phristre Walles		Troumand etal (Dollar 100				Work Order: N1570814 Paykey: ZSCHWLLBGT																



