# District I . 1625 N. French Dr., Hobbs, NM 88240 District II . 811 S. First St., Artesia, NM 88210 District III .

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

OCDOIL Conservation Division

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

1000 Rio Brazos Road, Aztec, NM 87410  1220 South St. Francis Dr.  1220 South St. Francis Dr.  1220 South St. Francis Dr.  1220 S. St. Francis Dr., Santa Fe, NM 87505  2114 And -8 2 58 Santa Fe, NM 87505  1258 to the appropriate NMOCD District Office.
Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action:  Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the nvironment. 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 Company OGRID #: 778
Address:200 Energy Court, Farmington, New Mexico 87401
Facility or well name:AL Elliott B 004
API Number:3004508537OCD Permit Number:
U/L or Qtr/Qtr P Section 10 Township 29N Range 9W County: San Juan
Center of Proposed Design: Latitude36.734720N Longitude107.761050W NAD: ☐1927 ☒ 1983
Surface Owner:  Federal  State  Trivate 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: Thicknessmil ☐ 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
Volume:bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
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

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										
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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC  Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable 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									
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									
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									
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No									
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No									
Below Grade Tanks										
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 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.	☐ Yes ☐ No									
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site										

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													
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site													
Permanent Pit or Multi-Well Fluid Management Pit													
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													
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													
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.12 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 19.15.17.9 NMAC and 19.15.17.13 NMAC													
II. M. M. W. II Flord M. and annual Pit Charletine. Subscarion P. of 10.15.17.0 NIMAC													
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC													
Previously Approved Design (attach copy of design) API Number: 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.   Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   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	e documents are							
13.   Proposed Closure: 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   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	luid Management Pit							
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  ☐ 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 south provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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							
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	☐ Yes ☐ No							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance								

	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	☐ Yes ☐ No										
Within a 100-year floodplain 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. Please indicate, 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 19.15.17.11 NMAC  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  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 be achieved)  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											
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 believe to the best of my knowl	ef.										
e-mail address:Courtney.Cochran@bp.com Telephone:(505)326-9457											
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	//										
OCD Representative Signature Approval Date: 10/19/13											
Title: Environmental Engineer OCD Permit Number:	· · / · · ·										
	complete this										
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	complete this										

22.	
Operator Closure Certification:	·
I hereby certify that the information and attachments submitted with this closure repo	ort is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable closure requirement	
Name (Print): _ Ourmey Cochan	Title: Field Environmental Advisor
$\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$	
Signature: ( )	Date: 1/7/2014
oighada.	
e-mail address: Country. Cochican@ bp. com	Telephone: 505-326-9457
e-mail address: Couching.	relephone:

#### Jones, Brad A., EMNRD

From: Cochran, Courtney <Courtney.Cochran@bp.com>

**Sent:** Tuesday, January 14, 2014 12:18 PM

To: Jones, Brad A., EMNRD

Subject: AL Elliott B4 Unlined Permanent Pit Closure Plan Clarification

Dear Brad,

In reference to the Unlined Permanent Pit Closure Plan for the AL Elliott B 004 I would like to clarify and correct the statement numbered 13.

In the Closure Plan statement numbered 13 states that: All areas disturbed by the closure of the UPP, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

I would like to clarify that this well location was plugged and abandoned on 5/29/2012. During the plugging operation a suspected unlined permanent pit was discovered. In response to this discovery BP submitted a closure plan to the OCD office and a closure notice to the surface owner who is the BLM. The suspected unlined permanent pit tested clean for all constituents and the unlined permanent pit was backfilled with clean material. This area along with the entire plugged and abandoned well pad will be reclaimed to BLM standards.

I would like to correct the statement to include that no areas will remain for any production or drilling activities as the well has been plugged and abandoned.

Thank you,

Courtney Cochran

Field Environmental Advisor - San Juan South

Office: 505-326-9457

Cell: 505-486-2694

Email: <u>Courtney.Cochran@bp.com</u>

#### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### UNLINED PERMANENT PIT CLOSURE PLAN

AL Elliott B004 3004508537 Section: 10 T29N R09W RECEIVED OCD

7014 J/M -8 ₽ 2: 58

This plan will address the method, procedures, and protocols for closure of unlined permanent pits (UPPs) on BP America Production Company (BP) well sites pursuant to Subsection A of 19.15.17.13 NMAC. As stipulated in Paragraph (1) of Subsection C of 19.15.17.13 NMAC, BP will not commence closure without first obtaining approval of the closure plan submitted. If deviations from this plan are necessary, BP will request preapproval from the New Mexico Oil Conservation Division (NMOCD) of any specific changes and will be included on form C-144.

#### **General Closure Plan**

1. BP shall notify the surface owner by certified mail, return receipt requested that it plans to close a UPP. Notice given will be at least 72 hours in advanced, but not more than one week prior to any closure operation. The notice shall include the well name, API number, and legal description of the location. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.

BP notified the surface owner of this well that BP would be sampling and closing the UPP prior to commencement of any work. A copy of the letter sent to the surface owner is included with this submission.

2. BP is notifying the Santa Fe office at least 60 days prior to cessation of operations and providing a proposed schedule for closure enclosed with this submission, prior to any closure operation. The notice shall include the name, and the location of the UPP to be closed by unit letter, section, township and range. If the UPP closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Copies of the C-144 along with the proposed schedule are included with this submission. All approvals and signatures were obtained before the commencement of any work.

- 3. BP shall remove liquids and sludge from the UPP prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD 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)

No liquids or sludge remained in the UPP; therefore, no material was removed from the UPP.

4. BP shall remove any on-site equipment associated with a UPP unless the equipment is required for some other purpose.

#### No on-site equipment remained, so no equipment was removed.

5. BP shall test the soils beneath the UPP to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample to include any obvious stained or wet soils, or other evidence of a release shall be collected under the UPP and analyze for the constituents listed in Table 1. The testing methods for those constituents are as follows;

Laboratory analysis was conducted on a representative sample, and all constituents returned results below the listed standards. A copy of the laboratory analysis is included with this submission.

Table 1 Closure Criteria for Soils Beneath Unlined Permanent Pit											
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**								
≤50	Chloride	EPA 300.0	600 mg/kg								
	ТРН	EPA SW-846 Method 418.1	100 mg/kg								
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg								
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg								

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons, TDS = total dissolved solids.

- Or other test methods approved by the division
- \*\* Numerical limits or natural background level, whichever is greater
- 6. If any contaminant exceeds the standards set in Table 1, less than or equal to 50 feet to groundwater, BP will acknowledge NMOCD's position to require additional delineation upon review of the results. BP will not proceed with any further closure activities until approval is first granted by NMOCD.

#### No contaminants exceeded the listed standards.

7. If the sampling demonstrates that any contaminant concentrations are less than or equal to the parameters listed in Table 1, less than or equal to 50 feet to groundwater, then BP shall backfill the excavation, with non-waste containing, uncontaminated, earthen material.

#### The UPP was backfilled with clean fill material.

8. BP shall reclaim the UPP location and all areas associated with the UPP 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 Paragraph (2) of Subsection H of 19.15.17.13 NMAC, re-contour the UPP location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Paragraph (5) of Subsection H of 19.15.17.13 NMAC.

BP will reclaim the UPP area specific to BLM standards for reclamation.

9. BP may propose an alternative to the re-vegetation or re-contouring requirement if it can demonstrate to the NMOCD's District III office that the proposed alternative provides equal or greater prevention of erosion, and protection of fresh water, public health and the environment. BP will seek surface owner approval of the proposed alternative and provide written documentation of the surface owner's approval to NMOCD for its approval.

BP will re-vegetate the UPP area along with the remainder of the P&A'd well pad with an approved BLM seed mix specific to the vegetative community the well is located in.

10. Areas reasonably needed for production operations or for subsequent drilling operations shall be compacted, covered, paved, or otherwise stabilized and maintained in such a way as to minimize dust and erosion to the extent practicable.

None exist.

11. The soil cover for closures after site contouring, shall include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

The soil cover will match the remainder of the graded well pad including background thickness.

12. 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 UPP area will be graded along with the remainder of P&A'd well pad to match existing grade and control erosion.

13. All areas disturbed by the closure of the UPP, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

The UPP area along with the entire P&A'd well pad will be reclaimed and re-vegetated as soon as practicable.

14. Top-soils and sub-soils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure the UPP.

The UPP area will be graded along with the remainder of the P&A'd well pad. The area along with the remainder of the well pad will be re-seeded as soon as possible for successful re-vegetation.

15. Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

Reclamation including grading and seeding operations will be completed along-side the remainder of the P&A'd well pad.

16. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of BP subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.

## The UPP area along with the remainder of the P&A'd well location will be reclaimed to BLM standards.

17. Pursuant to Subparagraph (e) of Paragraph (5) of Subsection H of 19.15.17.13 NMAC, BP shall notify the NMOCD when reclamation and re-vegetation has been successfully achieved.

#### Reclamation and re-vegetation will commence as soon as practicable.

- 18. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
  - a. necessary attachments to document all closure activities
  - b. sampling results
  - c. information required by 19.15.17 NMAC
  - d. details on back-filling, capping and covering, where applicable.

#### This submission will contain all the required documents related to closure activities.

19. 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.



RECEIVED OCD
7814 JAN - 8 P 2: 58

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 01, 2013

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 320-1183

TEL: (505) 320-1183 FAX (505) 632-3903

RE: A.L. Elliott B # 4 OrderNo.: 1310B21

#### Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report** Lab Order 1310B21

Date Reported: 11/1/2013

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Abandon Pit 5-pt @ 5.5' Collection Date: 10/22/2013 1:00:00 PM

**Project:** A.L. Elliott B # 4 1310B21-001 Lab ID:

Matrix: SOIL

Received Date: 10/23/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Anal	yst: <b>JME</b>
Diesel Range Organics (DRO)	33	9.9	mg/Kg	1	10/24/2013 11:12:49	PM 9976
Surr: DNOP	126	66-131	%REC	1	10/24/2013 11:12:49	PM 9976
EPA METHOD 8015D: GASOLINE R.	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2013 12:51:38	3 AM 9984
Surr: BFB	94.4	74.5-129	%REC	1	10/25/2013 12:51:38	3 AM 9984
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>
Benzene	ND	0.050	mg/Kg	1	10/25/2013 12:51:38	AM 9984
Toluene	ND	0.050	mg/Kg	1	10/25/2013 12:51:38	3 AM 9984
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2013 12:51:38	AM 9984
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2013 12:51:38	3 AM 9984
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	10/25/2013 12:51:38	AM 9984
EPA METHOD 300.0: ANIONS					Anal	yst: <b>JRR</b>
Chloride	48	1.5	mg/Kg	1	10/24/2013 12:36:34	PM 10000
EPA METHOD 418.1: TPH					Anal	yst: BCN
Petroleum Hydrocarbons, TR	61	20	mg/Kg	1	10/24/2013	9981

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Not Detected at the Reporting Limit Page 1 of 6 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1310B21 01-Nov-13

Client:

**Blagg Engineering** 

Project:

A.L. Elliott B # 4

Sample ID MB-10000

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBS** 

Batch ID: 10000

RunNo: 14341

Prep Date: 10/24/2013

Analysis Date: 10/24/2013

SeqNo: 411707

TestCode: EPA Method 300.0: Anions

LowLimit

Units: mg/Kg

Analyte

Result

PQL

1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

**RPDLimit** %RPD

Qual

Chloride

Client ID:

Analyte

ND

Sample ID LCS-10000

LCSS

SampType: LCS Batch ID: 10000

RunNo: 14341

110

HighLimit

Prep Date: 10/24/2013 Analysis Date: 10/24/2013

Result

SPK value SPK Ref Val

SeqNo: 411708 %REC

Units: mg/Kg

**RPDLimit** 

Qual

%RPD

PQL 15 15.00 97.3 Chloride

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- $\mathbf{O}$ RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- RLReporting Detection Limit

Page 2 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1310B21

01-Nov-13

Client:

Blagg Engineering

Project:

A.L. Elliott B # 4

Sample ID MB-9981

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

Prep Date:

Analyte

Client ID:

Analyte

PBS

10/23/2013

Batch ID: 9981 Analysis Date: 10/24/2013

PQL

RunNo: 14316

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 418.1: TPH

LowLimit

80

80

SeqNo: 410935

Units: mg/Kg

HighLimit

%RPD **RPDLimit** 

Qual

Petroleum Hydrocarbons, TR

Sample ID LCS-9981

ND

Result

SampType: LCS

Batch ID: 9981

RunNo: 14316

%REC

105

**PQL** 

20

Prep Date: 10/23/2013

LCSS

Analysis Date: 10/24/2013

Result

100

97

SeqNo: 410936

Units: mg/Kg HighLimit

120

%RPD

**RPDLimit** 

Qual

Qual

Petroleum Hydrocarbons, TR Sample ID LCSD-9981

SampType: LCSD

100.0

SPK value SPK Ref Val

TestCode: EPA Method 418.1: TPH

Client ID: LCSS02

Batch ID: 9981

RunNo: 14316 SeqNo: 410937

Units: mg/Kg

120

Analyte

Prep Date: 10/23/2013

Analysis Date: 10/24/2013 **PQL** 

SPK value SPK Ref Val %REC

HighLimit

%RPD

**RPDLimit** 

Petroleum Hydrocarbons, TR

20

100.0

96.8

7.70

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only. P

Reporting Detection Limit

Page 3 of 6

Н

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1310B21

01-Nov-13

Client:

Blagg Engineering

**Project:** 

A.L. Elliott B # 4

Sample ID MB-9976 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 9976 RunNo: 14317 Prep Date: 10/23/2013 Analysis Date: 10/24/2013 SeqNo: 410943 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 9.6 10.00 96.0 66 131

Sample ID LCS-9976 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 9976 RunNo: 14317 Prep Date: 10/23/2013 Analysis Date: 10/24/2013 SeqNo: 410946 Units: mg/Kg Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual

7 tildij to	· toodit	. 4-	OI IX Value	Of It Itel val	70112	LOWEITH	i ligitelliti
Diesel Range Organics (DRO)	44	10	50.00	0	88.9	77.1	128
Surr: DNOP	4.6		5 000		01.4	66	121

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL

Page 4 of 6

#### Hall Environmental Analysis Laboratory, Inc.

990

WO#: 1310B21

01-Nov-13

Client: Project:

Surr: BFB

**Blagg Engineering** A.L. Elliott B # 4

Sample ID MB-9984 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range RunNo: 14324 Client ID: Batch ID: 9984 PBS SeqNo: 411169 Prep Date: 10/23/2013 Analysis Date: 10/24/2013 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Result **PQL** LowLimit HighLimit Analyte Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 930 1000 93.4 74.5 129

TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-9984 SampType: LCS RunNo: 14324 Client ID: LCSS Batch ID: 9984 SegNo: 411170 Prep Date: 10/23/2013 Analysis Date: 10/24/2013 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual PQL HighLimit Analyte Result 74.5 126 0 83.9 Gasoline Range Organics (GRO) 21 5.0 25.00

99.0

74.5

129

1000

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 5 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1310B21

01-Nov-13

Client: Project:

Blagg Engineering A.L. Elliott B # 4

Sample ID MB-9984 TestCode: EPA Method 8021B: Volatiles SampType: MBLK Client ID: PBS Batch ID: 9984 RunNo: 14324 Prep Date: 10/23/2013 Analysis Date: 10/24/2013 SeqNo: 411181 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result **PQL** HighLimit Qual 0.050 Benzene ND 0.050 Toluene ND Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 120 Surr: 4-Bromofluorobenzene 1.0 1.000 104 80

Sample ID LCS-9984	Samp1	ype: LC	s	Tes						
Client ID: LCSS	Batc	h ID: 99	84	F	RunNo: 1	4324				
Prep Date: 10/23/2013	Analysis [	Date: 10	0/24/2013	\$	SeqNo: 4	11182	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.050	1.000	0	90.4	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Kylenes, Total	3.000	0	98.4	80	120					
Surr: 4-Bromofluorobenzene		108	80	120						

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name:	BLAGG		Work Order Numi	ber: 1310I	321			RcptNo	1
Received by/da	ite:	10	23 13						
Logged By:	Lindsay Ma	angin	10/23/2013 10:00:0	0 AM		July	11		
Completed By:	Lindsay M	angin <b>j</b>	10/23/ <b>2</b> 013 1 <sub>1</sub> 14:56	PM		July 1	14		
Reviewed By:	M	a/26	10/23/13						
Chain of Cus	stody								
1. Custody se	als intact on sa	ample bottles?		Yes		No		Not Present	
2. Is Chain of	Custody comp	lete?		Yes	$\checkmark$	No		Not Present	
3. How was th	e sample deliv	rered?		Cour	<u>ier</u>				
<u>Log In</u>									
4. Was an att	empt made to	cool the samples?		Yes	V	No		NA 🗆	l
5. Were all sa	mples receive	d at a temperature	of >0° C to 6.0°C	Yes	<b>✓</b>	No		NA 🗌	
6. Sample(s)	in proper conta	ainer(s)?		Yes	<b>✓</b>	No			
7. Sufficient sa	ample volume	for indicated test(s)	)?	Yes	<b>✓</b>	No			
8. Are sample	s (except VOA	and ONG) properly	y preserved?	Yes	✓	No			
9. Was preser	vative added t	o bottles?		Yes		No	<b>✓</b>	NA 🗆	
10.VOA vials h	ave zero head	space?		Yes		No		No VOA Vials 🗹	
11. Were any s	sample contain	ers received broke	n?	Yes		No	<b>Y</b>		
							_	# of preserved bottles checked	
12. Does paper				Yes	✓	No		for pH:	or >12 unless noted)
-	-	ain of custody) ntified on Chain of (	Custody?	Yes	<b>→</b>	No	П	Adjusted?	or > 12 dilless floted)
14. Is it clear w			oublody!	Yes		No	_		
15. Were all ho	-	e to be met?		Yes	_	No		Checked by:	
(ii iio, notily	Customerion	authorization.)							
Special Hand	diing (if app	olicable)							
16. Was client	notified of all d	iscrepancies with th	nis order?	Yes		No		NA 🗹	
Perso	n Notified:	Na care of Calebrate Land de Calebrate Calebra	Date	:					
By W	hom:		Via:	☐ eMa	il 🗌	Phone 🗌	Fax	In Person	
Rega	rding:								
Client	Instructions:								
17. Additional	remarks:								
18. <u>Cooler Info</u>	A SECURE OF SECURE	Condition   Se	al Intact   Seal No	Seal Da	ite	Signed B	sv ∃		
1	1.2	Good Yes							

THE FUNCTIONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	( <del>PM</del> )	S'†O	OA(G	7PH (1,8) (1,4) (1,4) (1,4) (1,4) (1,4) (1,4) (1,4)	200/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	bo bo bo bo bo bo bio n,1C (A(	BTEX + MATE BTEX + MATE BTEX + MATE BO15E	×××						Bomarks: 3 0 5	PAKKEY, PFETRK 05.78		멸
Turn-Around Time:	X Standard	Project Name:	A.L.ELLIOTT B#4	Project #:		Project Manager:	J. B.48		Sampler: L, Birder		Sample Jennigerature   //	Container Preservative Type and # Type	402×1 cool -001	-					Boreitad hv. Date Time	to Week 192013	Received by:  In 12, 12, (M)	accredited laboratories.
Chain-of-Custody Record	Client: BLAGG ENGINEERING INC.		Mailing Address: P.O. Box 87	1	N	-ax#:	:ebi	XStandard   Level 4 (Full Validation)	Accreditation		□ EDD (Type)	Date Time Matrix Sample Request ID	1921/3 1300 SOIL ABANDON PIT							Mas Ilono H Begg	Date: Time: Relinduished by:	iry, samples submitted to Hall I

# bp



2014 JAN -8 P 2: 58



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

August 12, 2013

Bureau of Land Management Mark Kelly 6251 College Blvd. Suite A Farmington, NM 87402

#### VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: Notification of plans to close/remove a permanent unlined pit Well Name: A.L. Elliott B#4

Dear Mr. Kelly

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove an unlined pit. BP wishes to inform you of our plans to close/remove the unlined pit on its well pad located on your surface. BP plans to commence this work on or about September 1, 2013. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the unlined pit and the well site will be plugged and abandoned.

Unless you have questions about this notice, there is no need to respond to this letter. If you do have any questions or concerns, please contact me at 505-326-9214

Sincerely,

Jerry Van Riper

9D Vanker

Surface Land Negotiator

**BP** America Production Company

# Proposed Schedule for closure and remediation of unlined permanent pit in San Juan Co. New Mexico

- BP will notify the surface owner by certified mail of its plans to close an UPP. Will occur before request for closure permit submitted to Santa Fe office.
- Request unlined permanent pit closure permit from environmental bureau in the division's Santa Fe office. *Five business days for permit to be signed and returned.*
- *One business day for sampling*: samples collected in accordance with Subsection C of 19.15.17.13 NMAC.
- Five business days for laboratory analytical results to be returned.
- The division will be notified of results on form C-141. The division may require additional delineation upon review of results. *One business day to be completed.*
- If laboratory analytical results do not exceed the standards set forth in Table I of 19.15.17.13 NMAC then the unlined permanent pits will be backfilled, recontoured and reseeded in accordance with Subsection C and H of 19.15.17.13 NMAC and BP America Production Company Unlined Permanent Pit Closure Plan. Five working days for work to be completed.
- If laboratory analytical results determine that a release has occurred that exceeds the standards set forth in Table I of 19.15.17.13 NMAC, then additional division review may be required and approval must be received before proceeding with closure. *Ten to fourteen working days for work to be completed.*
- BP will submit a closure report on form C-144. Within 60 days of closure.



