District I
 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fa NM 97505

Form C-144 July 21, 2008

1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Proposed Altern Type of action: Permit of Closure Modifica Closure below-grade tank; o. proposed Instructions: Please submit one application Please be advised that approval of this request does not re environment. Nor does approval relieve the operator of Operator: BP AMERICA PRODUCTION CO Address: 200 Energy Court, Farmington, NM	mative Method Permit or Closure I of a pit, closed-loop system, below-grade tank, or of a pit, closed-loop system, below-grade tank, ation to an existing permit plan only submitted for an existing permitted or d alternative method on (Form C-144) per individual pit, closed-loop system relieve the operator of liability should operations result in its responsibility to comply with any other applicable group MPANY OGRID #:7 A 87401	Plan Application or proposed alternative method or proposed alternative method r non-permitted pit, closed-loop system, <i>tem, below-grade tank or alternative request</i> in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
API Number: 3004524625 U/L or Qtr/Qtr OSection 12.0 Center of Proposed Design: Latitude 36.67165	OCD Permit Number: Township 28.0N Range 13W Longitude -108.16685	County: San Juan County
Temporary: Drilling Workover Permanent Emergency Cavitation Pe Lined Unlined Liner type: Thickness	&A mil	
3. Closed-loop System: Subsection H of 19.15.1 Type of Operation: P&A [] Drilling a new we intent) Drying Pad Above Ground Steel Tanks [] Lined Unlined Liner type: Thickness	7.11 NMAC H Workover or Drilling (Applies to activities wh Haul-off Bins Other mil ULDPE HDPE PVC	nich requirc prior approval of a permit or notice of
District III District Office. District III District Office. District IV Santa Fe, NM 87505 District Office. For permanent Dist and exceptions submit to fixe and provide accept to the appropriate NMOCD District Office. District Office. Proposed Alternative Method Permit or Closure Plan Application Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please badvised that approval of this request does not relive the operator of its responsibility to comply with any other applicable governmental autority's rules, regulations or ordinace Operator: BP AMERICA PRODUCTION COMPANY OGRID #.778 Address; 200 Energy Court, Farmington, NM 87401 Facility or well name: GALLEGOS CANYON UNIT 321 API Number: 3004524625 OCD Permit Number: U/L or Qur(Q) Section 12.0 Township 28.0N Range 1		
Alternative Method:	eptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.

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

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

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

Alternate. Please specify_

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

Screen Netting Other_

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Administrative Approvals 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:

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

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

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accel material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appr office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 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
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

^{11.} <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached</i> .
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Besign - 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 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Disance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Wast Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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 Closed-loop System Alternative Proposed Closure Method: X 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
 ^{15.} 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 F 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Oil Conservation Division

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13. Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser Yes (If yes, please provide the information below) No	
Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	с
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC <i>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou</i> <i>provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dis</i> <i>considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just</i> <i>demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.</i>	trict office or may be
Ground water is less than 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 between 50 and 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
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 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 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
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
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plby 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 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 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 Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC 	

Waste indicitation prime in a source appropriate requirements of subsection 1 of 17.15.17.15 MinAC
 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 1 of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Derestor Application Certification: 1 Interdy certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): Jefffey Peace Tide:: Field Environmential Advisor Signature:	•	
Operator Application Cartification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): Jeffrey Peace Signature: mail address: Peace Withoy & Com Constraints: Constra: Constraints:	۲ • ۰ ۰	
Name (Print): Jeffrey Peace Title: Field Environmental Advisor Signature:		
Signature:	I hereby certify that the information submitted with this application is true,	accurate and complete to the best of my knowledge and belief.
e-mail address: Peak Miney & Com	Name (Print): Jeffrey Peace	Title: Field Environmental Advisor
30 Cloure Vermit Application (including closure plan (Cloure Vermit V)) OCD Cagditions (see attachment) 00 CD Representative Signature Without Signature Without Signature 1111: Environment Signature Without Signature Without Signature 1111: Environment Signature OCD Permit Number: OCD Permit Number: 1111: Environment Signature OCD Permit Number: OCD Permit Number: 1111: Environment Signature OCD Permit Number: OCD Permit Number: 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature OCD Signature Signature OCD Signature Signature 1111: Environment Signature	Signature: Officer H. Reale	Date: 06/14/2010
QCD Approval: Permit Application (including closure plan of Closure Plan (including closure closure activities have been completed) 20 Closure Andrean (including closure plan (including closure plan (including closure closure activities have been completed) 21 Closure Andrean (including closure plan (including closure closure activities have been completed) 22 Closure Andrean (including closure plan (including closure closure activities (including closure c	e-mail address: Peace. Jeffrey@bo.com	Telephone: _505-326-9479
Itile:	20. OCD Approval: Permit Application (including closure plan) Clos	sure Plan (only) OCD Conditions (see attachment)
Title:	OCD Representative Signature	
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to ablain 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 and submitting the closure report is required to be submitted to the division within 60 days of the completion of the 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 and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities and submitted to the division within 60 days of the completion of the closure activities and submitted to the division within 60 days of the completion of the closure activities and submitted to the division within 60 days of the completion of the closure activities and submitted to the division within 60 days of the closure for closure for the closure fo	Title: Enviranmental Envireer	
21 Sure Method: Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only If different from approved plan, please explain. 22 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: 1nstructions: Please indentity the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more in two facility Name: Disposal Facility Name: Disposal Facility Permit Number: 21 Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No 22 Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a checkmark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) 24 Proof of Closure Notice (surface owner and division) Proof of Closure Soures and temporary pits) Scot first and the documentation Scot first and the documentation 25 Closure Report Attachment Checklist: Cosure (For on-site closure) Proof of Closure Notice (surface owner and division) Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Proof of Deed Noti	<u>Closure Report (required within 60 days of closure completion)</u> : Subsections: Operators are required to obtain an approved closure plan p The closure report is required to be submitted to the division within 60 days	prior to implementing any closure activities and submitting the closure repor ys of the completion of the closure activities. Please do not complete this the closure activities have been completed.
Closure Method On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only If different from approved plan, please explain. If different from approved plan, please explain. 23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more to two facilities were utilized. Disposal Facility Name: Disposal Facility Permit Number: Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Pres (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for thure service and operations? Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Back for the closure Notice (surface owner and division) Proof of Closure Notice (surface owner and division) Proof of Closure Notice (surface owner and division) Proof of Closure Notice (surface owner and division) Proof of Closure Notice (surface owner and division) Proof of Closure Notice (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique		Closure completion Date: 12-10 2013
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment it more two facilities were utilized. Disposal Facility Name:	Closure Method: Waste Excavation and Removal On-Site Closure Method A	Alternative Closure Method 🔲 Waste Removal (Closed-loop systems only)
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Were the closed-loop system operations and associated activities performed on or in areas that <i>will nol</i> be used for future service and operations? Mere the closed-loop system operations and associated activities performed on or in areas that <i>will nol</i> be used for future service and operations? Bequired for impacted areas which will nol be used for tuture service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Deed Notice (required for on-site closure) Proof of Deed Notice (required for on-site closure) Proof of Deed Notice (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.57165 Longitude 768.16685 NAD: 1927 1983 Plaf Lice 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 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.	<u>Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions:</u> Please indentify the facility or facilities for where the liquid	stems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Is, drilling fluids and drill cuttings were disposed. Use attachment if more that
Disposal Facility Name:		Disposal Facility Permit Number:
☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No <i>Required for impacted areas which will not be used for tuture service and operations:</i> ☐ Site Reclamation (Photo Documentation) ☐ Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a checkmark in the box, that the documents are attached. ☐ Proof of Closure Notice (surface owner and division) ☐ Proof of Deed Notice (required for on-site closure) ☐ Plot Plan (for on-site closures and temporary pits) ☑ Confirmation Sampling Analytical Results (required for on-site closure) ☐ Disposal Facility Name and Permit Number ☑ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique ☑ Site Reclamation (Photo Documentation) On-site Closure Location: Latitude <u>36.67165</u>		
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) X Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) X Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique X Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique X Soil Backfilling and Cover Installation On-site Closure Location: Latitude <u>36.67165</u> Longitude <u>-1688.166885</u> NAD: <u>1927</u> 1983 25. 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 balief. Labo cartific that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and balief.		
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a checkmark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude <u>36.57165</u> Longitude <u>76%. 166%5</u> NAD: [1927] 1983	 Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation 	pperations:
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a checkmark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.67165 Longitude 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 balief.		
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude <u>36.87165</u> Longitude <u>108.16685</u> NAD: <u>1927</u> 1983 NAD: <u>1927</u> 1983 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. Lake certify that the advance complies with all applicable closure requirements and conditions specified in the approved closure plan.	Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation	
25. <u>Operator Closure Certification</u> : 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 balled. Laleo certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	Site Reclamation (Photo Documentation)	
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. Lake certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	On-site Closure Location: Latitude 36.57165	Longitude NAD: 1927 3 1983
Name (Print): Jeffeace Signature: Jeffeace Date: January 7, 2014	Operator Closure Certification: I hereby certify that the information and attachments submitted with this clo	
Signature: Jeff Perce Date: January 7, 2044		quirements and conditions specified in the approved closure plan. Title: Field Grypermental Advisor
pro	NPP D	Date: January 7, 2014
e-mail address: peqce. errory & vf. com Telephone: (303/ 3.10-77) (e-mail address: page - jeffrey @ bp. com	Telephone: (505/ 328 - 47)7

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Gallegos Canyon Unit 321</u> <u>API No. 3004524625</u> <u>Unit Letter O, Section 12, T28N, R13W</u>

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

General Closure Plan

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
 No notice was made due to misunderstanding of the notice requirements. BP did not think notice was necessary if BGT replaced with LPT, but realizes notice is required for any BGT closure. Closure notices will be made for all BGT closures from this point forward.
- 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 notice requirements. BP did not think notice was necessary if BGT replaced with LPT, but realizes notice is required for any BGT closure. Closure notices will be made for all BGT closures from this point forward.

- 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
		(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	ND
Chlorides	US EPA Method 300.0 or 4500B	250 or background	330

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

Soil under the BGT was sampled and TPH and BTEX levels were below the stated limits. Chloride exceeded the standard by 80 mg/kg. Sampling data is attached.

- BP shall notify the division District III office of its results on form C-141.
 C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling data indicate chloride exceeded the standard (250 mg/kg) by 80 mg/kg. This will be addressed by the spill rule.
- 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 area of the well.

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 was backfilled with clean soil 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 under the BGT was backfilled with clean soil 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 under the BGT was backfilled with clean soil 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.

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.

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State of New Mexico Energy Minerals and Natural Resources

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.

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			Relo	ease Notifi	catio	n and Co	orrective A	ction									
						OPERA	FOR		🗌 Initi	al Report	\boxtimes	Final Report					
Name of Company: BP						Contact: Jeff Peace											
Address: 200 Energy Court, Farmington, NM 87401						Telephone No.: 505-326-9479											
Facility Name: Gallegos Canyon Unit 321						Facility Typ	e: Natural gas v	well									
Surface Owner: Federal Mineral Owner						Federal			API No	. 3004524	625						
				LOCA	TIO	N OF REI	LEASE										
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County: S	an Juar						
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		Lat	ituue3	6.67165		-											
Type of Pele	nee: chlorid	e exceeded so	ul etandar		URE	OF REL	EASE Release: unknow	un l	Volume	Recovered:	N1/ A						
		v grade tank –		u			lour of Occurrence					: 12/6/2013;					
	neuse. belov	a grade tank	15 001			unknown	iour or occurrent		1:30PM		covery	. 12/0/2015,					
Was Immedi	ate Notice (Yes [] No 🖾 Not R	eauired	If YES, To	Whom?	·									
By Whom?						Date and H	lour										
Was a Water	course Read	ched?					olume Impacting t	the Wate	rcourse			• • • • • • • • • • • • • • • • • • • •					
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If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	*					<u> </u>								
				n Taken.* Sampli TPH and BTEX													
backfilled an of 250 mg/kg was done du	d compacte g. Depth to e to the dept	d and is still v groundwater a th to groundwa	vithin the a at this site ater and be	xen.* BGT was re active well area. is estimated to be edrock exposure i	Chloride deeper ndicatin	e levels in the than 200 feet og very limited	soil under the BC, and sandstone b I risk to groundwa	GT were a edrock is ater.	at 330 mg/ exposed t	kg, which is	s above he site.	the standard No cleanup					
regulations a public health should their o or the enviro	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptanc idequately ICD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and r tance of a C-141	elease n ort by th emediat	otifications an e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actio eport" do reat to gro	ons for rele bes not reli bund water	eases which eve the ope ; surface wa	may er rator of iter, hui	ndanger Tliability man health					
Signature:	ff Ps	as					OIL CON	SERV	ATION	DIVISIO	<u>DN</u>						
Printed Nam	e: Jeff Peace					Approved by	Environmental S	pecialist:									
Title: Field E	Invironment	al Advisor			T	Approval Dat	e:	Е	xpiration	Date:							
		ffrey@bp.cor	n			Conditions of		I		Attached							
Date: Januar	v 7. 2014		Phone:	505-326-9479													

* Attach Additional Sheets If Necessary

	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199							
FIELD REPORT:	(circle one): BGT CONFIRMATION] / RELEASE INVESTIGATION /	OTHER:	PAGE #: of				
SITE INFORMATIO	ON: <u>SITE NAME:</u> GCU	#321		DATE STARTED: 12/06/1				
	WP: 28N RNG: 13W PI		ST: NM	DATE FINISHED:				
1/4 -1/4/FOOTAGE: 810'S / 1,5	40'E SW/SE LEASE		/ FEE / INDIAN	ENVIRONMENTAL				
LEASE #: NM078391A	PROD. FORMATION: PC	ELKHOR CONTRACTOR: MBF - P.	N ALEXANDER					
REFERENCE POI	NT: WELL HEAD (W.H.) G	PS COORD.: 36.671	71 X 108.1668	GL ELEV.: 5,68 4				
1) 45 BGT (SW/SB)	GPS COORD.:	36.67165 X 108.16685	DISTANCE/BE	ARING FROM W.H.: 45', S32				
2)	GPS COORD.		DISTANCE/BE	ARING FROM W.H.:				
	GPS COORD.:							
4)	GPS COORD.:		DISTANCE/BE					
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S)	# OR LAB USED:		O REA (P				
1) SAMPLE ID: 45 BGT 5-pt	t. @ 4' SAMPLE DATE:	06/13 SAMPLE TIME:1330	_ LAB ANALYSIS: 418.1	/8015B/8021B/300.0(CI)				
	SAMPLE DATE:			1				
	SAMPLE DATE:							
DISCOLORATION/STAINING OBSERVED: Y								
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SITE OBSERVATION	ONS: LOST INTEGRITY OF EQUIPME SERVED AND/OR OCCURRED : YES NO EX REA: YES NO EXPLANATION - IBERGLASS. FION: <u>NA</u> ft. X <u>NA</u> NEAREST WATER SOURCE: ≥1,00 BGT Located : off / on s BGT Located : off / on s	INT YES NO EXPLANATION- (PLANATION:	EXCAVATION ES R: <1,000' NMO rcle: attached OW N TIM I F F F F C TTM	TIMATION (Cubic Yards): NA CD TPH CLOSURE STD: 1,000 M CALIB. READ. = 100.3 ppm M CALIB. GAS = 100 ppm E: 1:35 art@m DATE: 12/06/1 MISCELL. NOTES NO: N15324848 PO PX: ZEVH01BGT2 PJ#: Z2-006Q0 Permit date(s): 06/14/10 OCD Appr. date(s): 05/10/11 NK OVM = Organic Vapor Meter ppm = parts per million A BGT Sidewalls Visible: Y / N				
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBS EQUIPMENT SET OVER RECLAIMED AR OTHER: BGT CONSTRUCTED OF FINANT SOIL IMPACT DIMENSION ESTIMAT DEPTH TO GROUNDWATER: >100' SITE SKETCH W.H. PUMP JACK PUMP JACK PUMP JACK PUMP JACK ED = BELOW-GRADE TANK; E.D. = EXC	ONS: LOST INTEGRITY OF EQUIPME SERVED AND/OR OCCURRED : YES NO EX REA: YES NO EXPLANATION - IBERGLASS. TION: <u>NA</u> ft. X <u>NA</u> NEAREST WATER SOURCE: >1,00 BGT Located : off (on s BGT Located : off (on s BGT Located : off (on s BGT Located : off (on s	INT: YES NO EXPLANATION- (PLANATION:	EXCAVATION ES	TIMATION (Cubic Yards) :				
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBS EQUIPMENT SET OVER RECLAIMED AR OTHER: BGT CONSTRUCTED OF FI SOIL IMPACT DIMENSION ESTIMAT DEPTH TO GROUNDWATER: >100' SITE SKETCH W.H. PUMP JACK PU	ONS: LOST INTEGRITY OF EQUIPME SERVED AND/OR OCCURRED : YES NO EXPLANATION - IBERGLASS. TION: <u>NA</u> ft. X <u>NA</u> NEAREST WATER SOURCE: >1,00 BGT Located : off (on) s	INT: YES NO EXPLANATION - (PLANATION:	EXCAVATION ES	TIMATION (Cubic Yards): NA CD TPH CLOSURE STD: 1,000 M CALIB. READ. = 100.3 ppm M CALIB. GAS = 100 ppm E: 1:35 art@m DATE: 12/06/1 MISCELL. NOTES NO: N15324848 PO PX: ZEVH01BGT2 PJ#: Z2-006Q0 Permit date(s): 06/14/10 OCD Appr. date(s): 05/10/11 NK OVM = Organic Vapor Meter ppm = parts per million A BGT Sidewalls Visible: Y / N				

Analytical Report Lab Order 1312467

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/19/2013

CLIENT:	Blagg Engineering
Project:	GCU 321

1312467-001

Lab ID:

Client Sample ID: 45 BGT 5-pt@4' Collection Date: 12/6/2013 1:30:00 PM Received Date: 12/11/2013 10:00:00 AM-

Analyses	es Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/13/2013 2:22:40 PM	1 10750
Surr: DNOP	106	66-131	%REC	1	12/13/2013 2:22:40 PM	1 10750
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/12/2013 5:22:39 PM	1 10755
Surr: BFB	92.3	74.5-129	%REC	1	12/12/2013 5:22:39 PN	1 10755
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	12/12/2013 5:22:39 PM	1 10755
Toluene	ND	0.049	mg/Kg	1	12/12/2013 5:22:39 PN	1 10755
Ethylbenzene	ND	0.049	mg/Kg	1	12/12/2013 5:22:39 PM	10755
Xylenes, Total	ND	0.099	mg/Kg	1	12/12/2013 5:22:39 PN	1 10755
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	12/12/2013 5:22:39 PN	1 10755
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	330	30	mg/Kg	20	12/16/2013 2:05:40 PM	10813
EPA METHOD 418.1: TPH					Analys	t: BCN
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	12/13/2013	10709

Matrix: SOIL

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

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

С	hain-	of-Cu	stody Record	Turn-Around	Time:] [L			E	RIV	7T E	20	ri 2		NT	- • •	
Client:	36466	ENGIN	leeve Inc	Standard	🗆 Rush	l		e 33											ATC		
®	SP An			Project Name	9:			A_i	С. <u>1</u> 1 1			v.hal								/12	
Mailing	Address	PO	Peerty INC. A BOX 87	60	CU 32	21		10	01 H	lawki								7100			
	C DA M	ELEIN	NM 87413	Project #:		<u> </u>	1)5-34				•			-410 [°]				
			32-1199	1															6.7 % 		
email o				Project Mana	ger:			ly).	â					04)							
QA/QC I	Package:		Level 4 (Full Validation)] J.	BLAGG		(8021	+ TPH (Gas only)	/ DRO / NED)			(SM)		PO4,SC	PCB's						
Accredi				Sampler:	J. BLA			H (DR		=	0		O ₂ ,I	082						
	AP	D Othe	r	On Ice	Z Yes	ELINŐ COM	F F		30	18.1	4.1	827		03,N	s / 8		(Y				N N
	(Type)			Sample Tem	perature 🕵 🍴			BE	3 (GI	od 4	0q 2	0 or	etals	Ž,	cide	A)	-VO	10E			کر ا
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	FIEAL Notar 1312 96 71a	BTEX + MIBE + 10021)	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
6/12	1330	SOIL	45 BGT 5-Pt @ 4	402 ×1	cor	-001	X		X	X								X			
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Date: 2/10/13	Time: 1750		1 1	Received by:		Date Time 2/11/13/00/				6	14	ŧĊŤ	, . c	Ţ-	Pa	<i>ع</i> دد	2				

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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

WO#: 1312467

19-Dec-13

Client: Project:	Blagg En GCU 321	gineering									
Sample ID	MB-10813	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 10	813	F	RunNo: 1	5549				
Prep Date:	12/16/2013	Analysis D	ate: 12	2/16/2013	S	GeqNo: 4	47221	Units: mg/M	íg		
Analyte		Result	PQL	SPK value	SPK <u>Ref</u> Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-10813	SampT	ype: LC	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 10	813	F	RunNo: 1	5549				
Prep Date:	12/16/2013	Analysis D	ate: 1	2/16/2013	S	SeqNo: 4	47222	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.6	90	110			

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

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Blagg Engineering

Project:	GCU 321										
Sample ID	MB-10709	SampTy	pe: MI	BLK	TestCode: EPA Method 418.1: TPH					<u> </u>	
Client ID:	PBS	Batch	ID: 10	709	F	RunNo: 1	5452				
Prep Date:	12/9/2013	Analysis Da	te: 12	2/13/2013	S	SeqNo: 4	44960	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	Irocarbons, TR	ND	20								
Sample ID	LCS-10709	SampType: LCS TestCode: EPA Method 418.1: TPH									
Client ID:	LCSS	Batch	ID: 10	709	F	RunNo: 1	5452				
Prep Date:	12/9/2013	Analysis Da	te: 1	2/13/2013	5	GeqNo: 4	44961	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	Irocarbons, TR	97	20	100.0	0	97.3	80	120			
Sample ID	LCSD-10709	SampTy	pe: LC	SD	Tes	tCode: E	PA Method	418.1: TPH		-	
Client ID:	LCSS02	Batch	ID: 10	709	F	RunNo: 1	5452				
Prep Date:	12/9/2013	Analysis Da	te: 1:	2/13/2013	5	SeqNo: 4	44962	Units: mg/ł	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	irocarbons, TR	97	20	100.0	0	97.3	80	120	0	20	

Qualifiers:

Client:

* 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

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WO#: 1312467

19-Dec-13

Blagg Engineering

Sample ID MB-10750	SampTyp	e: MB	LK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch IC	Batch ID: 10750 RunNo: 1			5473						
Prep Date: 12/11/2013	Analysis Date	e: 12	/13/2013	S	SeqNo: 4	45458	Units: mg/K	g			
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	8.8		10.00		87.8	66	131				
Sample ID LCS-10750	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics		
		Batch ID: 10750 RunNo: 15473									
Client ID: LCSS	Batch I	J: 10/	50	1.	Numino, I						
Client ID: LCSS Prep Date: 12/11/2013	Batch IE Analysis Date				SeqNo: 4		Units: mg/K	g			
	Analysis Date		/13/2013				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual	
Prep Date: 12/11/2013	Analysis Date	e: 12	/13/2013	S	SeqNo: 4	45579	•	•	RPDLimit	Qual	

Qualifiers:

Client:

- * 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

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WO#: 1312467 19-Dec-13

Client: Blagg F Project: GCU 3	Engineering 21									
Sample ID MB-10755	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 10	755	F	RunNo: 1	5471				
Prep Date: 12/11/2013	Analysis D	ate: 12	2/12/2013	S	SeqNo: 4	45353	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit_	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.5	74.5	129			• .
Sample ID LCS-10755	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 10	755	F	RunNo: 1	5471				
Prep Date: 12/11/2013	Analysis D)ate: 12	2/12/2013	5	SeqNo: 4	45354	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	74.5	126			
Surr: BFB	960		1000		95.8	74.5	129			

Qualifiers:

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

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1312467

WO#:

19-Dec-13

Client: Blagg Engineering Project: GCU 321

Sample ID MB-10755	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 10755			F	RunNo: 15471					
Prep Date: 12/11/2013	Analysis E	Date: 12	2/12/2013	s	eqNo: 4	45368	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID LCS-10755	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 10	755	RunNo: 15471						
Prep Date: 12/11/2013	Analysis [Date: 12	2/12/2013	S	eqNo: 4	45369	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
· ·	3.2	0.10	3.000	0	108	80	120			
Xylenes, Total	J.Z	0.10	5.000	v	100	00	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

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WO#: 1312467

19-Dec-13

ENVIRONMENTAL ANALYSIS LABORATORY	nmental Analysis Laborat 4901 Hawkins Albuquerque, NM 87 15-3975 FAX: 505-345-4 www.hallenvironmental.c	NE 109 Sam 107	ple Log-In Cl	neck List
Client Name: BLAGG Work,Order N	umber: 1 312467		RcptNo:	1
Received by/date KM 12/11/13				
Logged By: Ashley Gallegos 12/11/2013 10:0	00:00 AM	AZ		
Completed By: Ashley Gallegos A 12/11/2013 12:0)2;25 PM	A		:
Reviewed By:	(13	V		
Chain of Custody				•
1. Custody seals intact on sample bottles?	Yes	No 🗍	Not Present 🖌	
2. Is Chain of Custody complete?	Yes 🗸	No	Not Present	
3. How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🖌	No	NA	
5. Were all samples received at a temperature of >0° C to 6.0°	C Yes 🗹	No 📋	NA []]	
6. Sample(s) in proper container(s)?	Yes 🔽	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🖌	No		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No		
9. Was preservative added to bottles?	Yes	No 🖌	NA	
10.VOA vials have zero headspace?	Yes	No	No VOA Vials 🗹	
11, Were any sample containers received broken?	Yes 📋	No 🗹	44 of a	·····
12. Does paperwork match bottle labels?	Yes 🔽	No 🗀	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)			(<2 or Adjusted?	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No	, ingulation.	
14, Is it clear what analyses were requested?15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes .✔ Yes .✔	No No	Checked by:	
Presial Handling /if applicatio)				
Special Handling (if applicable) 16. Was client notified of all discrepancies with this order?	Yes 🗔	No 🗔	NA 🗹	

Person Notified:		Date:	Γ	· · · · · ·			
By Whom:	and an	Via: [] eM		Phone	اس بها		
Regarding:			and the second		and and any any analysis of the second s		
Client Instructions:						1	
17. Additional remarks:		•••					

_=:

18. <u>Cooler Information</u> <u>Cooler No</u> <u>Temp^oC</u> <u>Condition</u> <u>Seal Intact</u> <u>Seal No</u> <u>Seal Date</u> <u>Signed By</u> <u>1</u> <u>1.1</u> <u>Good</u> <u>Yes</u>

.....



