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

٩

11506

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 July 21, 2008

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.

Pit, Closed-Loop System, Below-Grade Tank, or 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
 Modification to an existing permit
 Closure plan only submitted for an existing permitted or non-permitted 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 be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

	I. Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778
	Address: 200 Energy Court, Farmington, NM 87401
	Facility or well name: GALLEGOS CANYON UNIT COM 568
ļ	APJ Number: 3004530220 OCD Permit Number:
	U/L or Qtr/Qtr B Section 36.0 Township 29.0N Range 12W County: San Juan County
	Center of Proposed Design: Latitude 36.68654 Longitude -108.0475 NAD: 1927 🗷 1983
	Surface Owner: 🗌 Federal 🗷 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
ĺ	2
	Pit: Subsection F or G of 19.15.17.11 NMAC RCVD DEC 6 '13
	Temporary: Drilling Workover
	Permanent Benergency Cavitation P&A
	Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other DIST. 3
	String-Reinforced
	Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
	3
	Closed-loop System: Subsection H of 19.15.17.11 NMAC
	Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
	Drying Pad 🔲 Above Ground Steel Tanks 🛄 Haul-off Bins 🗌 Other
	Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
	Liner Seams: Welded Factory Other
ſ	4.
	Below-grade tank: Subsection J of 19.15.17.11 NMAC <u>Tank ID</u> ; <u>A</u>
	Volume: 95.0bb1 Type of fluid: Produced Water
	Tank Construction material: Steel
I	🔲 Secondary containment with leak detection 🔲 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
	Visible sidewalls and liner 🗷 Visible sidewalls only 🗋 Other SINGLE WALLED SINGLE BOTTOMED
{	Liner type: Thicknessmil
ſ	5.
	Alternative Method:
T	Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

6.	
 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify <u>4' Hogwire with single barbed wire</u> 	, hospital,
 7. <u>Netting:</u> 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) 	
 8. 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 	
 <u>Administrative Approvals and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	office for
^{10.} <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 acce material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro- 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 ☐ NA
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

• • •

•

~

Temporary Piss_Emergencer Piss_and Below grade_Tanks Permit Application. Attachment Checklist: Subsection B of Pis1.179 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) of Subsection C of 19.15.17.9 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) of Subsection C of 19.15.17.9 NMAC Bitydiogoolgic Report (Below-grade Tanks) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Courser Pan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Intractions: Each of the following team marks be attached to the application. Please indicate, by a check nark in the bas, that the documents and attached the following team marks be attached to the applicable. Please down the appropriate requirements of 19.15.17.1 NMAC Bitydiogoologic Data (only for on-site clearer) - based upon the requirements of Plasgraph (3) of Subsection B of 19.15.17.9 NMAC Bitydiogoologic Data (only for on-site clearer) - based upon the appropriate requirements of 19.15.17.1 NMAC Bitydiogoologic Data (only for on-site clearer) - based upon the requirements of Subsection C of 19.15.17.9 NMAC Bi	11.		
Intervent Intervent <t< th=""><th>Temporary Pits, Emergency Pits, a</th><th></th><th></th></t<>	Temporary Pits, Emergency Pits, a		
Imply drogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (0) of Subsection B of 19.15.17.2 NMAC Imply drogeologic Data (Temporany and Emergence This - based upon the appropriate requirements of 19.15.17.1 NMAC Imply drogeologic Data (Temporany and Emergence This 10.1 NMAC Imply drogeologic Data (Temporany and Emergence This 10.1 NMAC Imply drogeologic Data (Temporany and Emergence This 10.1 NMAC Imply drogeologic Data (Temporany and Emergence This 10.1 NMAC Imply drogeologic Data (Temporany and Emergence This 10.1 NMAC Imply drogeologic Data (Temporany drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.9 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.9 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.9 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.9 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.9 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.12 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.12 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.12 NMAC Imply drogeologic Data (Data Paragraph (O) of Subsection B of 19.15.17.12 NMAC Imply drogeologic Report - based upon the appropriate requirements of 19.15.17.12 NMAC Imply 15.17.13 NMAC Imply		z items must be attached to the application. Ple	ase indicate, by a check mark in the box, that the documents ar
By dynamic Data Clamporations Description		(arade Tanke) - based upon the requirements of	Paragraph (4) of Subsection R of 10.15.17.0 NMAC
Sing Charting Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 MAC Design Plan based upon the appropriate requirements of 19.15.17.10 MAC Closure Plan. Planes Complete Boxes 14 through 18. if applicable) - based upon the appropriate requirements of 19.15.17.10 MAC Previously Approved Design (attach copy of design) API Number:			
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 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number: or Pernic Number: Previously Approved Design (attach copy of design) API Number: or Pernic Number: Cocked-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Planes indicate, by a check mark in the bac, that the documents an attached. Instructions: Each of the following items must be attached to the application appropriate requirements of Paragraph (3) of Subsection B of 19.15.17.1 NMAC Output the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Planes Complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.10 NMAC Output the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Planes complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan (Planes complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan (Planes complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan (Planes complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plane Complete Boxes and Maintenance Plane API Number:			
Conserve from the second set of the second set of the second sec			
and [9.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permin Number: or Permin Number: or Permin Number:			
Previously Approved Design (attach copy of design) API Number: or Permit Number: Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following liems must be attached to the application. Please indicate, by a check mark in the box, that the documents an attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Flam - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Flam - Computing the Backs 14 through 18, in applicable - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number:		Boxes 14 through 18, if applicable) - based upo	on the appropriate requirements of Subsection C of 19.15.17.9 NM
Closed-loop Systems 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 and that the appropriate requirements of 19.15.17.1 NMAC Design Plane Deemostrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.1 NMAC Design Plane Deemostrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.1 NMAC Design Plane Desad upon the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Desade Open the appropriate requirements of 19.15.17.1 NMAC Design Plane Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Design Plane Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Contract Compliance Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Contract Compliance Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Contract Compliance Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Design Plane Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Contract Compliance Opensitate requirements of 19.15.17.1 NMAC Distance Contractic Compliance Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Contractic Compliance Demostrations - based upon the appropriate requirements of 19.15.17.1 NMAC Distance Plane - based upon the appropriate requirements of 19			
Classed-hoop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NNAC Instructions: Each of the following items must be attached to the application. Please inficate, by a check mark in the box, that the documents an attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.19 NMAC Design Para - based upon the appropriate requirements of 19.15.17.12 NMAC Closure 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 Ni and 19.15.17.13 NMAC Previously Approved Operating and Maintenance Plan API Number: Previously Approved Operating and Maintenance Plan Previously Approved Operating and Prapaperating Plan OPI Number: Previously Approved Operating and Prapaperating Plan Operating Plan Plan Plan Plan Plan Plan Plan Plan	Previously Approved Design (at	ttach copy of design) API Number:	or Permit Number:
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents and marked. Coologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Pangraph (3) of Subsection B of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan. Sheed upon the appropriate requirements of 19.15.17.12 NMAC Cosure Plan (Plase complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.19 NMAC Previously Approved Design (attach copy of design) API Number:	12.		
attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Pine - based upon the appropriate requirements of 19.15.17.11 NMAC Closure Pine - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Pine - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Pine - based upon the appropriate requirements of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: Approved Operating and Maintenance Pine - Name Pine Number: (Applies only to closed-loop system that use baser ground steel tanks or haul-off bins and propose to implement waste removal for closure? Bermanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Immunotic Close Pine Pine Pine Pine Pine Pine Pine Pin			
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.10 NMAC Descing Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - Ased upon the appropriate requirements of 19.15.17.10 NMAC Descing Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Descing Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Descing Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Degrating and Maintenance Plan API Number:		g tiems must be anachea to the application. Fie	ase indicate, by a check mark in the box, that the documents are
Sting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NI Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number: Make Stranger (Application Checklist: Subsection B of 19.15.17.19 NMAC Bermannet Plis Permit Application Checklist: Subsection B of 19.15.17.19 NMAC Bermannet Plis Permit Application Checklist: Subsection B of 19.15.17.19 NMAC String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Hydrogeologic Report - based upon the appropriate requirements of 19.15.17.10 NMAC Climatodical Edition Checklist: Subsection B of 19.15.17.11 NMAC Distring Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatodical Edition Strate Integrity Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Disk Procession and Structure Integrity Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Disk Drocesion and Structure Integrity Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Disk Drocesion and Stru		Data (only for on-site closure) - based upon the	requirements of Paragraph (3) of Subsection B of 19.15.17.9
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 N and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	Siting Criteria Compliance De	emonstrations (only for on-site closure) - based	upon the appropriate requirements of 19.15.17.10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NI and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:			
and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:			
Previously Approved Design (attach copy of design) API Number:		e Boxes 14 (mough 16, n'applicable) - based up	on the appropriate requirements of Subsection C of 19.15.17.9 N
Previously Approved Operating and Maintenance Plan API Number:	_	ttach conv of design) API Number	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure) it. 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 arached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.19 NMAC Cinmatological Factors Assessment Centrice Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardovs Odors, including H,S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization . Monitoring and Inspection Plan Ensist Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Instructions: Plane compate 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 Closure Method (Diff for temporary pits and closed-loop systems) In-the action for consideration (D) on-site Closure Method (Diff for temporary pits and closed-loop systems) In-theace Burial O		1, 0,	
Bermannent 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 an arached. Image indicated Image indicates Image indicates Each of the following items must be attached to the appropriate requirements of 19.15.17.10 NMAC Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC Image indicates Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Image indicates Ditte Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Image indicates Quality Control/Quality Assurance Construction and Installation Plan Image indicates Image indicates Operating and Maintennec Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Image indicates Image indicates Instructions: Each of the appropriate requirements of 19.15.17.11 NMAC Image indicates Image indicates Operating and Maintennec Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Image indicates Image indicates Instructions: Each of the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Image indit indicates Instructions:			
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 an arached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC Cintratological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Lack Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Doperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Eners Specifications and Inspection Plan Berregork Response Plan Sibsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Instructions: Plan - based upon the appropriate requirements of the proposed closure plan. Type: Dilling Waste Excavation and Removal Proposed Closure: 19.15.17.13 NMAC Instructions: Permanent Pit Set of the following items must be attached oop system only) Don-site Closure Method:	above ground steel tanks or haul-off	f bins and propose to implement waste removal f	or closure)
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: ▼ 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) 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 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			
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: 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) 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 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	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Charaa Monitoring and Inspection Pla	Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H_2S , Prevention Plan acterization an	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC tirements of 19.15.17.11 NMAC
 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. Y Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC I 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 I of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping Pr Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC uirements of 19.15.17.11 NMAC
 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Is. 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 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 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the I4. Proposed Closure: 19.15.17.13 NM	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- trance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H_2S , Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC stirements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
 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) Maste 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 I of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping Pr Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the It. Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: □ Drilling □ Workover □	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements of Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC jirements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
 In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 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 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 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping Pr Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Proposed Closure: 19.15.17.13 NN Instructions: Please complete the a Type: Drilling Workover Alternative	A Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements of Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar Emergency Cavitation Pe&A Perm	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC jirements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
 Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 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 I of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: X Was	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar Emergency Cavitation P&A Perm ste Excavation and Removal ste Removal (Closed-loop systems only)	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC uirements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
 Is. 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 1 of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: X Was	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar Emergency ☐ Cavitation ☐ P&A ☐ Pern ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC uirements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
 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 I of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: X Was On-s	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requirements o acterization	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC p.15.17.9 NMAC and 19.15.17.13 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC contract of the proposed closure plan. hanent Pit R Below-grade Tank Closed-loop System d closed-loop systems) ial
 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 1 of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the IA. Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: Mass On-s	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requirements of subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the appropriate requirements of Subsection C of 19 and the applicable boxes, Boxes 14 through 18, in regarking the second sterm of Closed-loop systems only) site Closure Method (Only for temporary pits an in-place Burial in On-site Trench Burial in the second sterm of the second s	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC p.15.17.9 NMAC and 19.15.17.13 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC contract of the proposed closure plan. hanent Pit R Below-grade Tank Closed-loop System d closed-loop systems) ial
 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 1 of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: Wass On-s Alternative	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requirements of Part - based upon the appropriate requirements of Prevention Plan - based upon the appropriate requirements of acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an □ In-place Burial □ On-site Trench Bur	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC irrements of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC of to the proposed closure plan. hanent Pit 🗷 Below-grade Tank 🗌 Closed-loop System d closed-loop systems) ial bmitted to the Santa Fe Environmental Bureau for consideration)
 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 1 of 19.15.17.13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping Pi Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: Wass On-s Alternative	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of Plan - based upon the appropriate requirements or revention Plan - based upon the appropriate requirements or revention Plan - based upon the appropriate requirements of subsection C of 19 acterization an e appropriate requirements of Subsection C of 19 and the appropriate requirements of	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC p.15.17.9 NMAC and 19.15.17.13 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC eds to the proposed closure plan. hanent Pit R Below-grade Tank Closed-loop System d closed-loop systems) ial bmitted to the Santa Fe Environmental Bureau for consideration) mstructions: Each of the following items must be attached to the
 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 1 of 19,15,17,13 NMAC 	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping Pr Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Closure Plan - based upon the Anternative Proposed Closure Method: Alternative Proposed Closure Method: Alternative Proposed Closure Method: Alternative Proposed Closure Method: Alternative Nusses Alternative	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 an of the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of Plan Plan - based upon the appropriate requirements of revention Plan - based upon the appropriate requirements of revention Plan - based upon the appropriate requirements of revention Plan - based upon the appropriate requirements of subsection C of 19 matching H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar Bemergency Cavitation Cavitation Perm ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an In-place Burial On-site Trench Bur Planchecklist: (19.15.17.13 NMAC) I Closure Plan Checklist: (19.15.17.13 NMAC) I	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC interments of 19.15.17.11 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC		a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropriate requirements of Plan Plan - based upon the appropriate requirements or Prevention Plan - based upon the appropriate requirements of revention Plan - based upon the appropriate requirements of subsection C of 19 acterization an e appropriate requirements of Subsection C of 19 MAC applicable boxes, Boxes 14 through 18, in regar ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC f 19.15.17.12 NMAC g.15.17.9 NMAC and 19.15.17.13 NMAC g.15.17.9 NMAC and 19.15.17.13 NMAC rds to the proposed closure plan. hanent Pit R Below-grade Tank Closed-loop System d closed-loop systems) ial bmitted to the Santa Fe Environmental Bureau for consideration) mstructions: Each of the following items must be attached to the attached. 17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the Id. Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: Drilling Workover Alternative Proposed Closure Method: Wass Waste Excavation and Removal C Closure plan. Please indicate, by a d Confirmation Sampling Plan Confirmation Sampling Plan	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 mAC applicable boxes, Boxes 14 through 18, in regar Emergency □ Cavitation □ P&A □ Perm ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an □ In-place Burial □ On-site Trench Bur ernative Closure Method (Exceptions must be sul Closure Plan Checklist: (19.15.17.13 NMAC) I check mark in the box, that the documents are used upon the appropriate requirements of 19.15. (if applicable) - based upon the appropriate require Permit Number (for liquids, drilling fluids and dri Permit Number (for liquids, drilling fluids and dri	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC f 19.15.17.12 NMAC g.15.17.9 NMAC and 19.15.17.13 NMAC eds to the proposed closure plan. hanent Pit Below-grade Tank Closed-loop System d closed-loop systems) ial bmitted to the Santa Fe Environmental Bureau for consideration) mstructions: Each of the following items must be attached to the attached. 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC it cuttings)
	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the IA Proposed Closure: 19.15.17.13 NM Instructions: Please complete the a Type: □ Drilling □ Workover □ Alternative Proposed Closure Method: ★ Was □ On-5 □ Alternative Stream Plan. Please indicate, by a d ∞ Confirmation Sampling Plan ⊂ Cosure plan. Sampling Plan Core design ∞ Disposal Facility Name and P ∞ Soil Backfill and Cover Design ∞ Soil Backfill and Cover Design ∞ Soil Backfill and Cover Design ∞ Disposal Facility Name and P ∞ Soil Backfill and Cover Design ∞ Confirmation Sampling Plan ∞ Soil Backfill and Cover Design ∞ Confirmation Sampling Plan ∞ Soil Backfill and Cover Design ∞ Cover Sample Sampling Plan ∞ Soil Backfill and Cover Design ∞ Cover Sampling Plan ∞ Soil Backfill and Cover Design ∞ Cover Sampling Plan ∞ Soil Backfill and Cover Design ∞ Cover Sampling Plan ∞ Cover Design ∞ Cover Design	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 mAC applicable boxes, Boxes 14 through 18, in regar Emergency ☐ Cavitation ☐ P&A ☐ Perm ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an ☐ In-place Burial ☐ On-site Trench Bur ernative Closure Method (Exceptions must be sul Closure Plan Checklist: (19.15.17.13 NMAC) I check mark in the box, that the documents are used upon the appropriate requirements of 19.15. (if applicable) - based upon the appropriate requirements of gn Specifications - bappropriate requ	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC f 19.15.17.12 NMAC g.15.17.9 NMAC and 19.15.17.13 NMAC
	Certified Engineering Design Dike Protection and Structura Leak Detection Design - base Liner Specifications and Com Quality Control/Quality Assu Operating and Maintenance P Freeboard and Overtopping P Nuisance or Hazardous Odors Emergency Response Plan Oil Field Waste Stream Chara Monitoring and Inspection Pla Erosion Control Plan Closure Plan - based upon the	a Plans - based upon the appropriate requirements al Integrity Design - based upon the appropriate re- ed upon the appropriate requirements of 19.15.17 apatibility Assessment - based upon the appropri- irrance Construction and Installation Plan Plan - based upon the appropriate requirements o Prevention Plan - based upon the appropriate requi- s, including H ₂ S, Prevention Plan acterization an e appropriate requirements of Subsection C of 19 mAC applicable boxes, Boxes 14 through 18, in regar Emergency ☐ Cavitation ☐ P&A ☐ Perm ste Excavation and Removal ste Removal (Closed-loop systems only) site Closure Method (Only for temporary pits an ☐ In-place Burial ☐ On-site Trench Bur ernative Closure Method (Exceptions must be sul Closure Plan Checklist: (19.15.17.13 NMAC) I check mark in the box, that the documents are used upon the appropriate requirements of 19.15. (if applicable) - based upon the appropriate requirements of gn Specifications - bappropriate requ	s of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC ate requirements of 19.15.17.11 NMAC f 19.15.17.12 NMAC f 19.15.17.12 NMAC f 19.15.17.9 NMAC and 19.15.17.13 NMAC 9.15.17.9 NMAC and 19.15.17.13 NMAC ate to the proposed closure plan. hanent Pit I Below-grade Tank Closed-loop System d closed-loop systems) ial bmitted to the Santa Fe Environmental Bureau for consideration) instructions: Each of the following items must be attached to the attached. 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC ill cuttings) quirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC

•

· 1

•

is. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.1	
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attack facilities are required.	hment if more than two
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 will not be used for f	future service and operations?
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. 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	13 NMAC
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of accept provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approp considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approv demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	riate district 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
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	or playa 🔲 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial applicatio - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	on. 🔲 Yes 🗋 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or s watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial app - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordi adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	nance 🗌 Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed	site
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 Geolog Society; Topographic map 	gical 🗌 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 c 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NM. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure stand.	AC nts of 19.15.17.11 NMAC IMAC

Disposal racing value and remit valuer (of inquis, uning radis and dim cuttings of in case of-site
 Soil Cover Design - based upon the appropriate requirements of Subsection I 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

٠

. 1

•

19. 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 belief.
Name (Print): Jeffrey Peace
Name (Print): Jeffrey/Peace Title: Field Environmental Advisor Signature: Date: 06\14\2010
e-mail address: Peace.Jeffrey@bp.com Telephone:505-326-9479
20. OCD Approval: Permit Application (including closure plan Closure plan (on pt OCD Appnditions (see Attachment)
OCD Representative Signature: OCL Convert D. Celly (2/2/2013 Z/17/13
Title: Schor Hydrologist OCD Permit Number:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: <u>6-6-2013</u>
22.
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.
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 than two facilities were utilized.
Disposal Facility Permit Number: 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 will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations:
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)
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 Paclamation (Photo Documuntation)
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
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Jeff leace Title: Field British Advisor
Signature: Off Leave Date: Decomber 5, 2013
e-mail address: peace. jeffrey @bp.com Telephone: (505) 326-9479

Form C 144

•

;

:

•

Oil Conservation Division

.

•

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.

			14010	ease Notif								
						OPERA	ГOR		🗌 Initi	al Report	\boxtimes] Final Rep
Name of Co	ompany: B	P				Contact: Jef	f Peace			· · · ·		· · · · ·
Address: 20	0 Energy	Court, Farmi	ington, N	M 87401	· · · · · ·	Telephone 1	No.: 505-326-94	479				
Facility Na	me: Galleg	os Canyon l	Jnit Com	568]	Facility Typ	e: Natural gas	well				
Surface Ow	ner: State	<u></u>		Mineral	Owner: I	Federal			API No	. 30045302	220	
				LOC		N OF REI	LEASE		1			
Unit Letter B	Section 36	Township 29N	Range 12W	Feet from the 1,265		South Line	Feet from the 1,680	East/W East	/est Line	County: Sa	an Ju	an
		Lat	titude3	6.68654		Longitud	le108.0475_			<u></u>		
						OF REL						
Type of Rele	ase: none					· · · · · · · · · · · · · · · · · · ·	Release: N/A		Volume F	Recovered: N	N/A	
		v grade tank –	95 bbl		· ·		lour of Occurren	ce:		Hour of Dis		γ:
Was Immedi		Given?		No 🛛 Not I	Required	If YES, To		I				<u></u>
By Whom?						Date and H	lour					
Was a Water	course Read	hed?			······		lume Impacting	the Wate	rcourse			
	course reac		Yes 🛛	No		11123, 40	nume impacting		icourse.			
f a Watercou	urse was Im	pacted, Descr	ibe Fully.*									
impacts from	the BGT.		resulted in	n Taken.* Samp TPH, BTEX an			er beneath the Bo dards. Analysis r					
impacts from depth. Water	the BGT. Sample was	Soil analysis r taken and als and Cleanup A	esulted in so showed Action Tak	n Taken.* Samp TPH, BTEX an no impacts.	d chloride	s below stand		esults are	e attached.	Groundwat	ter wa	is found at 4 f
mpacts from lepth. Water Describe Are packfilled an hereby certi egulations a public health should their cor the environ	the BGT. Sample was sample was a Affected a d compacted fy that the i ll operators or the envir operations h nment. In a	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to ronment. The ave failed to a	Action Tak ven above o report an acceptanc adequately OCD accept	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to th release no port by the remediate	s below stand nd the area u e best of my ptifications ar NMOCD m e contaminati	dards. Analysis r	The sults are of the standard stand Standard standard stand Standard standard stand Standard standard stand Standard standard stand Standard standard standard standard standard standard standard standa	d that purs	Groundwat he area unde want to NMC eases which eve the oper surface wa	er the OCD may o rator o ter, h	BGT was BGT was rules and endanger of liability uman health
mpacts from lepth. Water Describe Are packfilled an hereby certi egulations a public health hould their cor the environ	the BGT. sample was sample was a Affected a d compacted fy that the i ll operators or the envir operations h ment. In au or local lav	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to ronment. The ave failed to a ddition, NMC vs and/or regu	esulted in so showed Action Tak vithin the a ven above o report an acceptanc acceptanc adequately DCD accept ations.	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to th release no port by the remediate	s below stand nd the area u e best of my ptifications ar NMOCD m e contaminati	dards. Analysis r nderneath the BC knowledge and u nd perform correc arked as "Final R on that pose a thr	oT was sa oT was sa nderstand ctive actio eport" do responsib	d that purs ons for rele oes not reli ound water pility for co	Groundwat he area unde cuant to NMC cases which eve the oper surface wa ompliance w	er the OCD may c rator c iter, h	BGT was BGT was rules and endanger of liability uman health
mpacts from lepth. Water Describe Are backfilled an hereby certi egulations a bublic health hould their o or the environ ederal, state,	the BGT. sample was sample was a Affected a d compacted fy that the i ll operators or the envir operations h ment. In au or local lav	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to ronment. The ave failed to a ddition, NMC	esulted in so showed Action Tak vithin the a ven above o report an acceptanc acceptanc adequately DCD accept ations.	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to th release no port by the remediate	s below stand nd the area u e best of my ptifications ar NMOCD m e contaminati	dards. Analysis r nderneath the BC knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	oT was sa oT was sa nderstand ctive actio eport" do responsib	d that purs ons for rele oes not reli ound water pility for co	Groundwat he area unde cuant to NMC cases which eve the oper surface wa ompliance w	er the OCD may c rator c iter, h	BGT was BGT was rules and endanger of liability uman health
Describe Are Describe Are Descr	a Affected a d compacted of that the i ll operators or the envir operations h nment. In au or local law	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to ronment. The ave failed to a ddition, NMC vs and/or regu	esulted in so showed Action Tak vithin the a ven above o report an acceptanc acceptanc adequately DCD accept ations.	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to th release no port by the remediate I report do	s below stand nd the area u e best of my otifications ar NMOCD m e contaminati bes not reliev	dards. Analysis r nderneath the BC knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	oT was sa oT was sa inderstand ctive actio eport" do reat to gro responsib SERVA	d that purs ons for rele ound water oility for co ATION	Groundwat he area unde cuant to NMC cases which eve the oper surface wa ompliance w	er the OCD may c rator c iter, h	BGT was BGT was rules and endanger of liability uman health
mpacts from lepth. Water Describe Are backfilled an hereby certii egulations a bublic health hould their o ederal, state, Signature:	a Affected a d compacted ify that the i ll operators or the envir operations h nment. In ac or local law	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to a failed to a ddition, NMC vs and/or regu	esulted in so showed Action Tak vithin the a ven above o report an acceptanc acceptanc adequately DCD accept ations.	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to the release no port by the remediate l report do	s below stand nd the area u e best of my otifications ar NMOCD m e contaminati bes not reliev	dards. Analysis r nderneath the BC knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of <u>OIL CON</u> Environmental S	oT was sa oT was sa otive action responsib SERVA pecialist:	d that purs ons for rele ound water oility for co ATION	Groundwat he area unde eases which eve the oper c, surface wa ompliance w DIVISIO	er the OCD may c rator c iter, h	BGT was BGT was rules and endanger of liability uman health
mpacts from depth. Water Describe Are backfilled an hereby certif egulations a bublic health should their of rederal, state, <u>Bignature:</u>	a Affected a d compacted ify that the i ll operators or the envir operations h nment. In ac or local law	Soil analysis r taken and als and Cleanup A d and is still w nformation gi are required to a failed to a ddition, NMC vs and/or regu	Action Tak vithin the a ven above o report an acceptance idequately DCD accept lations.	n Taken.* Samp TPH, BTEX an no impacts. en.* BGT was r ctive area for th is true and com d/or file certain e of a C-141 rep investigate and	d chloride removed a ne well. plete to th release no port by the remediate 1 report do 4	s below stand nd the area u e best of my otifications are NMOCD m e contaminati bes not reliev	dards. Analysis r nderneath the BC knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of <u>OIL CON</u> Environmental S e:	oT was sa oT was sa otive action responsib SERVA pecialist:	d that purs ons for rele ons for rele ound water oility for co ATION	Groundwat he area unde eases which eve the oper c, surface wa ompliance w DIVISIO	er wa r the OCD may e ator c ter, h vith ar <u>DN</u>	BGT was BGT was rules and endanger of liability uman health

Form C-141 Revised August 8, 2011

	BLA	GG ENGINEERING	, INC.	API #: 3004530	220
CLIENT: DT	P.O. BOX	87, BLOOMFIELD,	NM 87413		
		(505) 632-1199	·····	(if applicble):A	
FIELD REPORT:	(circle one): BGT CONFI	RMATION / RELEASE INVESTIGATIO	N / OTHER:	PAGE #: of	
SITE INFORMATION	- n			DATE STARTED: 06/0	6/13
QUAD/UNIT: B SEC: 36 TWP:	29N RNG: 12	W PM: NM CNTY:	SJ st: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,265'N / 1,680	D'E NW/NE			ENVIRONMENTAL	
		T CONTRACTOR: MBF	S. GLYNN	SPECIALIST(S): N	
REFERENCE POINT	- WELL HEAD (W.H.) GPS COORD,: 36.	<u>68671 X 108.04739</u>		
1) 95 BGT (SW/SB)	GPS COORD.:	36.68654 X 108.04	750 DISTANCE/BE	ARING FROM W.H.: 85', S	
2)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:	
3>	•	<u> </u>	DISTANCE/BE	ARING FROM W.H.:	
4)		·····	DISTANCE/BE		
SAMPLING DATA:		CORD(S) # OR LAB USED:	HALL		READING (ppm)
1) SAMPLE ID: GW @ 4.5' (95)				• •	NA
2) SAMPLE ID: 4 PC-SW@2'-3'					NA
3) SAMPLE ID:					
		SAMPLE TIME:			
SOIL DESCRIPTION	SOIL TYPE: SA	ND SILTY SAND SILT / SILTY C	LAY / CLAY GRAVEL OT	HER	
SOIL COLOR: OLIVE GRAY TO COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL'	······································				
CONSISTENCY (NON COHESIVE) SLIGHT				COHESIVE / MEDIUM PLASTIC / HIGHLY PL 7 / FIRM / STIFF / VERY STIFF / H/	
MOISTURE: DRY SLIGHTLY MOIST / MOIST / W	ET / SATURATED / SUPER SAT	TURATED HC ODOR DE		ANATION	
SAMPLE TYPE: GRAB / COMPOSITE +					
DISCOLORATION/STAINING OBSERVED	YES/NU] EXPLANATI	ON			
ANY AREAS DISPLAYING WETNESS: YES / NO	EXPLANATION - BOTTO	M OF BGT @ GROUNDWATER II			
APPARENT EVIDENCE OF A RELEASE C	BSERVED AND/OR OCC	URRED: YES/NO EXPLANATI	ION :		
ADDITIONAL COMMENTS: BGT - 15' FT.	DIAMETER LOW PROP	<u>ILE</u>			
SOIL IMPACT DIMENSION ESTIMATION:		NA_ ft. X		IMATION (Cubic Yards) :	NA
	EAREST WATER SOURCE:	>1,000' NEAREST SURFACE W	ATER: <a>	D TPH CLOSURE STD: 100	ppm
SITE SKETCH	METER	PLOT PLAN	circle: attached OVM	CALIB. READ. = NA ppm	RF = 0.52
	- < RUN	BERM W.H.		CALIB. GAS = NA ppm	
		BERM W.H.		: NA am/pm DATE:	NA
			'[MISCELL. NOT	ES
		X	<u>w</u>	10: N15121254	
	b k (PBGTL			
		T.B. ~ 4.5' B.G.	1-	K: ZEVH01BGT2	
				J#: Z2-006L3-C ermit date(s): 06/14/	40
		EXPOSED		CD Appr. date(s): 02/18/	
		SURFACE		ik OVM = Organic Vapor Mete	л Л
	SOUND WALLS			BGT Sidewalls Visible: Y/ N	1
	The Lo	• S.P.D. (WATER)	(-S.P.D. (SOIL)	BGT Sidewalls Visible: Y / N	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO		GRADE; B = BELOW; T.H. = TEST HOLE; ~ = AP	PROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI			TAINING WALL; NA - NOT	lagnetic declination: 10	<u> </u>
TRAVEL NOTES: CALLOUT:		ONSITE:	06/06/13		

•

,

Han Environmental Anal	7515 Laborat	<u>, , , , , , , , , , , , , , , , , , </u>			Date Reported: 6/18/20	13
CLIENT: Blagg Engineering Project: GCU COM #568	<u> </u>		-		S-SW @ 2'-3' (95) 5/2013 2:15:00 PM	
Lab ID: 1306360-001	Matrix: S	SOIL	Received I	Date: 6/8	3/2013 11:00:00 AM	
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/13/2013 6:53:39 PM	7827
Surr: DNOP	101	63-147	%REC	1	6/13/2013 6:53:39 PM	7827
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/12/2013 11:01:27 PM	7838
Surr: BFB	94.2	80-120	%REC	1	6/12/2013 11:01:27 PM	7838
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.046	mg/Kg	1	6/12/2013 11:01:27 PM	7838
Toluene	ND	0.046	mg/Kg	1	6/12/2013 11:01:27 PM	7838
Ethylbenzene	ND	0.046	mg/Kg	1	6/12/2013 11:01:27 PM	7838
Xylenes, Total	ND	0.092	mg/Kg	1	6/12/2013 11:01:27 PM	7838
Surr: 4-Bromofluorobenzene	96.6	80-120	%REC	1	6/12/2013 11:01:27 PM	7838
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	13	1.5	mg/Kg	1	6/13/2013 9:08:55 PM	7915
EPA METHOD 418.1: TPH					Analyst	: jmb
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	6/11/2013	7843

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analy
	Е	Value above quantitation range	Н	Holdir
	J	Analyte detected below quantitation limits	ND	Not D
	0	RSD is greater than RSDlimit	Р	Sampl

- R RPD outside accepted recovery limits

- yte detected in the associated Method Blank
- ing times for preparation or analysis exceeded
- Detected at the Reporting Limit Not Detected at the Reporting Limit Page 1 of 11 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

,

Analytical Report Lab Order 1306360

Date Reported: 6/18/2013

Hall Environmental Anal	ysis Labora	tory, Inc.			Lab Order 1306360 Date Reported: 6/18/20	013
CLIENT: Blagg Engineering			Client Sampl	e ID: G	W @ 4.5' (95)	
Project: GCU COM #568			Collection I	Date: 6/6	5/2013 2:10:00 PM	
Lab ID: 1306360-002	Matrix:	AQUEOUS	Received l	Date: 6/8	3/2013 11:00:00 AM	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	48	2.5	mg/L	5	6/10/2013 7:44:55 PM	R11211
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analys	t: DAM
Benzene	ND	1.0	µg/L	1	6/14/2013 1:08:17 PM	R11313
Toluene	ND	1.0	µg/L	1	6/14/2013 1:08:17 PM	R11313
Ethylbenzene	ND	1.0	µg/L	1	6/14/2013 1:08:17 PM	R11313
Xylenes, Total	ND	2.0	µg/L	1	6/14/2013 1:08:17 PM	R11313
Surr: 4-Bromofluorobenzene	98.9	69.5-130	%REC	1	6/14/2013 1:08:17 PM	R11313

Analytical Report

•

,

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
	E	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 2 of 11
	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

Client: Blagg Engineering GCU COM #568 **Project:**

.

Sample ID MB-7915	SampType: MBLK	TestCode: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID: 7915	RunNo: 11307			
Prep Date: 6/13/2013	Analysis Date: 6/13/2013	SeqNo: 319523	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride	ND 1.5				
	ND 1.5				
Sample ID LCS-7915	SampType: LCS	TestCode: EPA Method	300.0: Anions		
		TestCode: EPA Method RunNo: 11307	300.0: Anions		
Sample ID LCS-7915	SampType: LCS		300.0: Anions Units: mg/Kg		
Sample ID LCS-7915 Client ID: LCSS	SampType: LCS Batch ID: 7915 Analysis Date: 6/13/2013	RunNo: 11307		RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit R
 - RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
 - Not Detected at the Reporting Limit ND
 - Р Sample pH greater than 2 for VOA and TOC only.
 - RL Reporting Detection Limit

Page 3 of 11

WO#: 1306360

18-Jun-13

Client: Blagg Engineering **Project:** GCU COM #568

•

Ξ

Sample ID	мв	SampTyp	e: ME	BLK	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID:	PBW	Batch II	D: R1	1211	F	RunNo: 1	1211				
Prep Date:		Analysis Dat	e: 6/	10/2013	S	SeqNo: 3	16932	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	0.50								
Sample ID	LCS	SampTyp	be: LC	s	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID:	LCSW	Batch II	D: R1	1211	F	RunNo: 1	1211				
Prep Date:		Analysis Dat	.e: 6 /	10/2013	S	SeqNo: 3	16933	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		4.7	0.50	5.000	0	93.5	90	110			
Sample ID	1306360-002BMS	SampTyp	be: MS	 S	Tes	tCode: E	PA Method	300.0: Anions	 ;		
•		SampTyp Batch II				tCode: E RunNo: 1		300.0: Anions			
•	GW @ 4.5' (95)		D: R1	1211	F		1211	300.0: Anions Units: mg/L			
Client ID:	GW @ 4.5' (95)	Batch II Analysis Dat	D: R1	1211 10/2013	F	RunNo: 1 SeqNo: 3	1211		%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte	GW @ 4.5' (95)	Batch II Analysis Dat	D: R1 e: 6/	1211 10/2013	F	RunNo: 1 SeqNo: 3	1211 16959	Units: mg/L		RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride	GW @ 4.5' (95)	Batch II Analysis Dat Result 75	D: R1 e: 6/ PQL 2.5	1211 10/2013 SPK value 25.00	F S SPK Ref Val 48.40	RunNo: 1 SeqNo: 3 %REC 105	1211 16959 LowLimit 89.9	Units: mg/L HighLimit	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride Sample ID	GW @ 4.5' (95)	Batch II Analysis Dat Result 75	D: R1 e: 6/ PQL 2.5 be: MS	1211 10/2013 SPK value 25.00	F S SPK Ref Val 48.40 Tes	RunNo: 1 SeqNo: 3 %REC 105	1211 16959 LowLimit 89.9 PA Method	Units: mg/L HighLimit 119	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride Sample ID	GW @ 4.5' (95) 1306360-002BMSE GW @ 4.5' (95)	Batch II Analysis Dat Result 75 SampTyp	D: R1 e: 6/ <u>PQL</u> 2.5 De: R1	1211 10/2013 SPK value 25.00 SD 1211	F S SPK Ref Val 48.40 Tes F	RunNo: 1 SeqNo: 3 %REC 105 tCode: E	1211 16959 LowLimit 89.9 PA Method 1211	Units: mg/L HighLimit 119	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	GW @ 4.5' (95) 1306360-002BMSE GW @ 4.5' (95)	Batch II Analysis Dat <u>Result</u> 75 SampTyp Batch II Analysis Dat	D: R1 e: 6/ <u>PQL</u> 2.5 De: R1	1211 10/2013 SPK value 25.00 SD 1211 10/2013	F S SPK Ref Val 48.40 Tes F	RunNo: 1 SeqNo: 3 %REC 105 tCode: E RunNo: 1 SeqNo: 3	1211 16959 LowLimit 89.9 PA Method 1211	Units: mg/L HighLimit 119 300.0: Anions	%RPD	RPDLimit	Qual

Qualifiers:

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

1306360 18-Jun-13

WO#:

Page 4 of 11

Client:Blagg EngineeringProject:GCU COM #568

,

Sample ID MB-7843	SampType: MBLK	TestCode: EPA Method	418.1: TPH	
Client ID: PBS	Batch ID: 7843	RunNo: 11215		
Prep Date: 6/10/2013	Analysis Date: 6/11/2013	SeqNo: 317105	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20			
Sample ID LCS-7843	SampType: LCS	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS	Batch ID: 7843	RunNo: 11215		
Prep Date: 6/10/2013	Analysis Date: 6/11/2013	SeqNo: 317106	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 107 80	120	_
Sample ID LCSD-7843	SampType: LCSD	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS02	Batch ID: 7843	RunNo: 11215		
Prep Date: 6/10/2013	Analysis Date: 6/11/2013	SeqNo: 317107	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	99 20 100.0	0 98.7 80	120 8.03	20

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

- 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 5 of 11

1306360 18-Jun-13

WO#:

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Blagg En GCU CO										
Sample ID		Sampl	ype: ME			tCode: El	DA Mothod	8015D: Dies			
	PBS		n ID: 78 2			RunNo: 1		ourop. Dies	ei Kaliye (ryanics	
-								Lipite: mall	(~		
Prep Date:	6/10/2013	Analysis E	Jale. 0/	12/2013	,	SeqNo: 3		Units: mg/k	١g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	<u>%RPD</u>	RPDLimit	Qual
Diesel Range (Surr: DNOP	Jiganics (DRO)	ND 10	10	10.00		102	63	147			
Sample ID	LCS-7827	SampT	ype: LC	S	 Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics	
Client ID:	LCSS	Batcl	n ID: 78	27	F	RunNo: 1	1234				
Prep Date:	6/10/2013	Analysis D	Date: 6/	12/2013	9	SeqNo: 3	18437	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	62	10	50.00	0	123	77.1	128			
Surr: DNOP		4.7		5.000		94.7	63	147			
Sample ID	1306351-001AMS	SampT	уре: М\$	 }	Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics	
Client ID:	BatchQC	Batcl	h ID: 78	27	F	RunNo: 1	1234				
Prep Date:	6/10/2013	Analysis E	Date: 6/	13/2013	S	SeqNo: 3	18443	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Drganics (DRO)	46	10	50.00	7.955	75.7	61.3	138			
Surr: DNOP		2.9		5.000		57.3	63	147			S
Sample ID	1306351-001AMS	D Samp1	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	BatchQC	Batcl	h ID: 78	27	Ł	RunNo: 1	1234				
Prep Date:	6/10/2013	Analysis D	Date: 6/	13/2013	5	SeqNo: 3	18444	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	52	9.9	49.65	7.955	88.1	61.3	138	12.2	20	
Surr: DNOP		3.3		4.965		66.1	63	147	0	0	
Sample ID	MB-7884	SampT	ype: ME	= BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	PBS	Batcl	h ID: 78	84	F	RunNo: 1	1274				
Prep Date:	6/12/2013	Analysis [)ate: 6/	13/2013	ŝ	SeqNo: 3	19035	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		106	63	147			
Sample ID	LCS-7884	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	LCSS	Batcl	n ID: 78	84	F	RunNo: 1	1274				
Prep Date:		Analysis [Date: 6/	13/2013	S	SeqNo: 3	19036	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.4		5.000		108	63	147			

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

- 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.

Page 6 of 11

RL Reporting Detection Limit

WO#: 1306360

18-Jun-13

Client:Blagg EngineeringProject:GCU COM #568

•

Sample ID	1306486-004AMS	SampTy	pe: M	5	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 78	84	F	RunNo: 1	1234				
Prep Date:	6/12/2013	Analysis Da	ate: 6/	/13/2013	S	SeqNo: 3	19379	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Our DNOD		4.4						4.47			
Surr: DNOP		4.4		4.995		88.3	63	147			
	1306486-004AMSI		/pe: M		Tes			8015D: Dies	el Range (Drganics	
Sample ID	1306486-004AMSI BatchQC	D SampTy	/pe: M ID: 78	SD			PA Method		el Range (Drganics	
Sample ID Client ID:		D SampTy	ID: 78	SD 884	F	tCode: El	PA Method		C	Drganics	
	BatchQC	D SampTy Batch	ID: 78	SD 984 /13/2013	F	tCode: El	PA Method	8015D: Dies	C	Drganics RPDLimit	Qual

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

- 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 7 of 11

1500500

WO#: 1306360

18-Jun-13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU COM #568

Sample ID MB-7838	SampT	ype: ME	3LK	Tes	Code: El	PA Method	8015D: Gas	oline Rang	e	
Client ID: PBS	Batch	ID: 78	38	F	unNo: 1	1246				
Prep Date: 6/10/2013	Analysis D	ate: 6/	12/2013	5	eqNo: 3	18439	Units: mg/l	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.8	80	120			
Sample ID LCS-7838	SampT	ype: LC	s	Tes	Code: El	PA Method	8015D: Gas	oline Rang	e	
Client ID: LCSS	Batch	ID: 78	38	F	unNo: 1	1246				
Prep Date: 6/10/2013	Analysis D	ate: 6/	12/2013	5	eqNo: 3	18440	Units: mg/l	<g< td=""><td></td><td></td></g<>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	62.6	136			
Surr: BFB	1000		1000		102	80	120			
Sample ID 1306354-002AMS	SampT	ype: MS	3	Tes	Code: El	PA Method	8015D: Gas	oline Rang	e	
Client ID: BatchQC	Batch	ID: 78	38	F	unNo: 1	1246				
Gient ID. Batchec	2010									
Prep Date: 6/10/2013	Analysis D	ate: 6/	12/2013	S	eqNo: 3	18465	Units: mg/l	٢g		
		ate: 6/ PQL		SPK Ref Val	eqNo: 3 [.] %REC	LowLimit	Units: mg/l HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: 6/10/2013	Analysis D						•	·	RPDLimit	Qual
Prep Date: 6/10/2013 Analyte	Analysis D Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	·	RPDLimit	Qual
Prep Date: 6/10/2013 Analyte Gasoline Range Organics (GRO)	Analysis D Result 27 1000	PQL	SPK value 24.04 961.5	SPK Ref Val 0	%REC 113 105	LowLimit 70 80	HighLimit 130	%RPD		Qual
Prep Date: 6/10/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB	Analysis D Result 27 1000 D SampT	PQL 4.8	SPK value 24.04 961.5	SPK Ref Val 0 Tes	%REC 113 105	LowLimit 70 80 PA Method	HighLimit 130 120	%RPD		Qual
Prep Date: 6/10/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1306354-002AMS	Analysis D Result 27 1000 D SampT	PQL 4.8 ype: MS	SPK value 24.04 961.5 SD 38	SPK Ref Val 0 Tes F	%REC 113 105 Code: EF	LowLimit 70 80 PA Method 1246	HighLimit 130 120	%RPD		Qual
Prep Date: 6/10/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1306354-002AMS Client ID: BatchQC	Analysis D Result 27 1000 D SampT Batch	PQL 4.8 ype: MS	SPK value 24.04 961.5 5D 38 12/2013	SPK Ref Val 0 Tes F	<u>%REC</u> 113 105 Code: EF unNo: 1 eqNo: 3	LowLimit 70 80 PA Method 1246	HighLimit 130 120 8015D: Gase	%RPD		Qual
Prep Date: 6/10/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1306354-002AMS Client ID: BatchQC Prep Date: 6/10/2013	Analysis D Result 27 1000 D SampT Batch Analysis D	PQL 4.8 ype: MS 1D: 78 ate: 6/	SPK value 24.04 961.5 5D 38 12/2013	SPK Ref Val 0 Tes R S	<u>%REC</u> 113 105 Code: EF unNo: 1 eqNo: 3	LowLimit 70 80 PA Method 1246 18466	HighLimit 130 120 8015D: Gase Units: mg/l	%RPD	e	

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

- 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 8 of 11

18-Jun-13

1306360

WO#:

Client:Blagg EngineeringProject:GCU COM #568

Sample ID MB-7838 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Batch ID: 7838 Client ID: PBS RunNo: 11246 Prep Date: Analysis Date: 6/12/2013 SeqNo: 318495 6/10/2013 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ND 0.050 Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.10 Xylenes, Total Surr: 4-Bromofluorobenzene 0.94 1.000 94.5 120 80 Sample ID LCS-7838 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 7838 RunNo: 11246 Prep Date: Analysis Date: 6/12/2013 SeqNo: 318496 6/10/2013 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 1.1 0.050 1.000 0 112 80 120 1.1 0.050 1.000 0 80 Toluene 111 120 Ethylbenzene 1.1 0.050 1.000 0 112 80 120 3.4 0.10 3.000 0 112 80 120 Xylenes, Total 1.0 1.000 103 Surr: 4-Bromofluorobenzene 80 120 Sample ID 1306354-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BatchQC Batch ID: 7838 RunNo: 11246 Prep Date: 6/10/2013 Analysis Date: 6/12/2013 SeqNo: 318498 Units: mg/Kg %RPD %REC Analyte Result PQL SPK value SPK Ref Val LowI imit HighLimit RPDLimit Qual Benzene 1.0 0.049 0.9766 0 103 67.2 113 Toluene 1.0 0.049 0.9766 0.007646 103 62.1 116 Ethylbenzene 1.0 0.049 0.9766 0.008919 104 67.9 127 Xylenes, Total 3.1 0.098 2.930 0.01391 105 60.6 134 Surr: 4-Bromofluorobenzene 1.0 0.9766 102 80 120 Sample ID 1306354-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: BatchQC Batch ID: 7838 RunNo: 11246 Analysis Date: 6/12/2013 Prep Date: 6/10/2013 SeqNo: 318499 Units: mg/Kg %REC Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD RPDLimit Qual 1.0 0.049 0.9737 106 67.2 2.43 14.3 Benzene 0 113 1.0 0.049 0.9737 0.007646 104 62.1 116 1.27 15.9 Toluene 0.049 0.9737 0.008919 104 67.9 127 0.312 14.4 1.0 Ethylbenzene Xylenes, Total 3.1 0.097 2.921 0.01391 106 60.6 134 0.0697 12.6

Qualifiers:

* Value exceeds Maximum Contaminant Level.

1.0

E Value above quantitation range

Surr: 4-Bromofluorobenzene

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

80

120

٥

H Holding times for preparation or analysis exceeded

103

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

0.9737

Page 9 of 11

0

18-Jun-13

1306360

WO#:

Client: Blagg Engineering **Project:**

.

GCU COM #568

Sample ID 5ml rb	SampT	ype: MI	3LK	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch	1D: R1	1313	Я	RunNo: 1	1313				
Prep Date:	Analysis D	ate: 6	14/2013	S	SeqNo: 3	19980	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	69.5	130			
Surr: Dibromofluoromethane	9.3		10.00		92.7	70	130			
Surr: Toluene-d8	9.2		10.00		92.3	70	r 130			
Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: E	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	ID: R1	1313	F	RunNo: 1	1313				
Prep Date:	Analysis D	ate: 6/	14/2013	S	SeqNo: 3	19981	Units: µg/L			
Analyte	Result_	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	22	1.0	20.00	0	112	80	120			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.0	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.2	69.5	130			
Surr: Dibromofluoromethane	8.8		10.00		87.6	70	130			
Surr: Toluene-d8	9.1		10.00		90.6	70	130			
Sample ID 1306397-009a n	n s SampT	ype: MS	<u> </u>	Tes	tCode: E	PA Method	8260: Volatile	es Short L	ist	
Client ID: BatchQC	Batch	ID: R1	1313	R	RunNo: 1	1313				
Prep Date:	Analysis D	ate: 6/	14/2013	S	eqNo: 3	19982	Units: µg/L			
Prep Date: Analyte	Analysis D Result	ate: 6/ PQL		S SPK Ref Val	eqNo: 3	19982 LowLimit	Units: µg/L HighLimit	%RPD	RPDLimit	Qual
Analyte	·				•		• •	%RPD	RPDLimit	Qual
Analyte Benzene	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Benzene	Result 20	PQL 1.0	SPK value 20.00	SPK Ref Val 0	%REC 101	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
Analyte Benzene Toluene	Result 20 23	PQL 1.0	SPK value 20.00 20.00	SPK Ref Val 0	%REC 101 117	LowLimit 70 68.5	HighLimit 130 128	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4	Result 20 23 8.6	PQL 1.0	SPK value 20.00 20.00 10.00	SPK Ref Val 0	%REC 101 117 85.9	LowLimit 70 68.5 70	HighLimit 130 128 130	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	Result 20 23 8.6 9.4	PQL 1.0	SPK value 20.00 20.00 10.00 10.00	SPK Ref Val 0	%REC 101 117 85.9 93.8	LowLimit 70 68.5 70 69.5	HighLimit 130 128 130 130	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	Result 20 23 8.6 9.4 8.8 9.2	PQL 1.0	SPK value 20.00 20.00 10.00 10.00 10.00 10.00	SPK Ref Val 0 0	%REC 101 117 85.9 93.8 87.8 91.9	LowLimit 70 68.5 70 69.5 70 70 70	HighLimit 130 128 130 130 130			Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8	Result 20 23 8.6 9.4 8.8 9.2 msd SampT	PQL 1.0 1.0	SPK value 20.00 20.00 10.00 10.00 10.00 10.00 5D	SPK Ref Val 0 0 Test	%REC 101 117 85.9 93.8 87.8 91.9	LowLimit 70 68.5 70 69.5 70 70 PA Method	HighLimit 130 128 130 130 130 130			Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID 1306397-009a m	Result 20 23 8.6 9.4 8.8 9.2 msd SampT	PQL 1.0 1.0 ype: MS	SPK value 20.00 20.00 10.00 10.00 10.00 10.00 5D 1313	SPK Ref Val 0 0 Test	%REC 101 117 85.9 93.8 87.8 91.9 tCode: E	LowLimit 70 68.5 70 69.5 70 70 70 PA Method 1313	HighLimit 130 128 130 130 130 130			Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID 1306397-009a m Client ID: BatchQC	Result 20 23 8.6 9.4 8.8 9.2 nsd SampT Batch Analysis D Result	PQL 1.0 1.0 ype: MS ID: R1 ate: 6/ PQL	SPK value 20.00 20.00 10.00 10.00 10.00 10.00 5D 1313 14/2013 SPK value	SPK Ref Val 0 0 Test R S SPK Ref Val	%REC 101 117 85.9 93.8 87.8 91.9 Code: E RunNo: 1 SeqNo: 3 %REC	LowLimit 70 68.5 70 69.5 70 70 PA Method 1313 19983 LowLimit	HighLimit 130 128 130 130 130 8260: Volatile Units: µg/L HighLimit	es Short L %RPD	ist RPDLimit	Qual
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: A-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID 1306397-009a m Client ID: BatchQC Prep Date: Analyte	Result 20 23 8.6 9.4 8.8 9.2 nsd SampT Batch Analysis D Result 20	PQL 1.0 1.0 ype: MS ID: R1 ate: 6/ PQL 1.0	SPK value 20.00 20.00 10.00 10.00 10.00 10.00 5D 1313 14/2013 SPK value 20.00	SPK Ref Val 0 0 Test R S	%REC 101 117 85.9 93.8 87.8 91.9 KCode: E RunNo: 1 SeqNo: 3 %REC 102	LowLimit 70 68.5 70 69.5 70 70 PA Method 1313 19983 LowLimit 70	HighLimit 130 128 130 130 130 8260: Volatile Units: µg/L HighLimit 130	es Short L %RPD 0.787	ist RPDLimit 20	
Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID 1306397-009a m Client ID: BatchQC Prep Date:	Result 20 23 8.6 9.4 8.8 9.2 nsd SampT Batch Analysis D Result	PQL 1.0 1.0 ype: MS ID: R1 ate: 6/ PQL	SPK value 20.00 20.00 10.00 10.00 10.00 10.00 5D 1313 14/2013 SPK value	SPK Ref Val 0 0 Test R S SPK Ref Val	%REC 101 117 85.9 93.8 87.8 91.9 Code: E RunNo: 1 SeqNo: 3 %REC	LowLimit 70 68.5 70 69.5 70 70 PA Method 1313 19983 LowLimit	HighLimit 130 128 130 130 130 8260: Volatile Units: µg/L HighLimit	es Short L %RPD	ist RPDLimit	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Р Sample pH greater than 2 for VOA and TOC only. Page 10 of 11

Reporting Detection Limit RL

WO#: 1306360

18-Jun-13

Client:Blagg EngineeringProject:GCU COM #568

Sample ID 1306397-009a m	sd SampT	ype: MS	SD	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Client ID: BatchQC	Batcl	n ID: R1	1313	F	RunNo: 1	1313				
Prep Date:	Analysis E	ate: 6/	/14/2013	s	SeqNo: 3	19983	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.4		10.00		93.9	69.5	130	0	0	
Surr: Dibromofluoromethane	8.8		10.00		88.3	70	130	0	0	
Surr: Toluene-d8	9.0		10.00		90.2	70	130	0	0	

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

- 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 11 of 11

WO#: 1306360

18-Jun-13

C	hain-e	of-Cus	stody Record	I urn-Around	ıme:						AL		E	N 18	/ T K	۶n	NI	ME	NIT	- 4 -	
Client:			/ BP AMERICA	Standard	🗍 Rush													RA			
				Project Name:					ine Strat			w.ha									
Mailing A	ddress:	P.O. BO	X 87		GCU COM #	568		49	01 F	lawl								'' 37109)		
		BLOOM	FIELD, NM 87413	Project #:				·							505	-					
Phone #:		(505) 63	2-1199	1			94 H.														
email or F	ax#:			Project Manag	jer:				nV						Ī						Т
QA/QC Pa	-	[]	Level 4 (Full Validation)		NELSON V	ELEZ	MB's (8021B)	(Aluo	(Oum)			S)		04,504	PCB's			er - 300.1)			
Accreditat	_			Sampler:	NELSON V	ELEZ M√	₩ F	Gas	-			SIZ		02, P	082			water			sample
		D Other		On Ice:	X Yes	- 🗆 No		Hd	io/o	118.	504.	3270		S, S	s / 8		(Y)	300.0 /			
	Type)			Sample Temp	erature: 4,3	<u> </u>		<u>ــــــــــــــــــــــــــــــــــــ</u>	GRC	g	ğ	ъ Б	stals	Ž	cide	F	2		Ì	e	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 13003000	BTEX + MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	4 pt. composite
6/6/13	1415	SOIL	4PC-SW @ 2'-3' (95)	4 oz 2	Cool	- 001	V		V	V								V	1		V
<u></u>			·																		+
6/6/13	1410	WATER	GW @ 4.5' (95)	500 ml - 1	Cool	-062												V		v	+
						<u>_</u>														T	-
6/6/13	1410	WATER	GW @ 4.5' (95)	40 ml VOA - 2	Cool	-002	۷												- † .	v	+
																					1
																			T		T
													_						-		T
																					-
				1															\top		
																			-		-
Date:	Time:	Relinquishe	fd by:	Received by:	, ,	Date Time	Ren	nark	s:				L		I			<u> </u>			
6/1/13	1620	90	my	Christin	I helen	6/7/13 1620					O BP										
Date:	Time:	Relinquishe		Received by:	1	Date Time												7401			
6/1/13	1754	1 Aris	the Walter	VIII		6/8/13 11:00	We	ork C)rder	:	<u>N15</u>	5121	254		Pa	ykey	<u> </u>	ZEVHO	<u>)18G</u>	T2	-

.

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

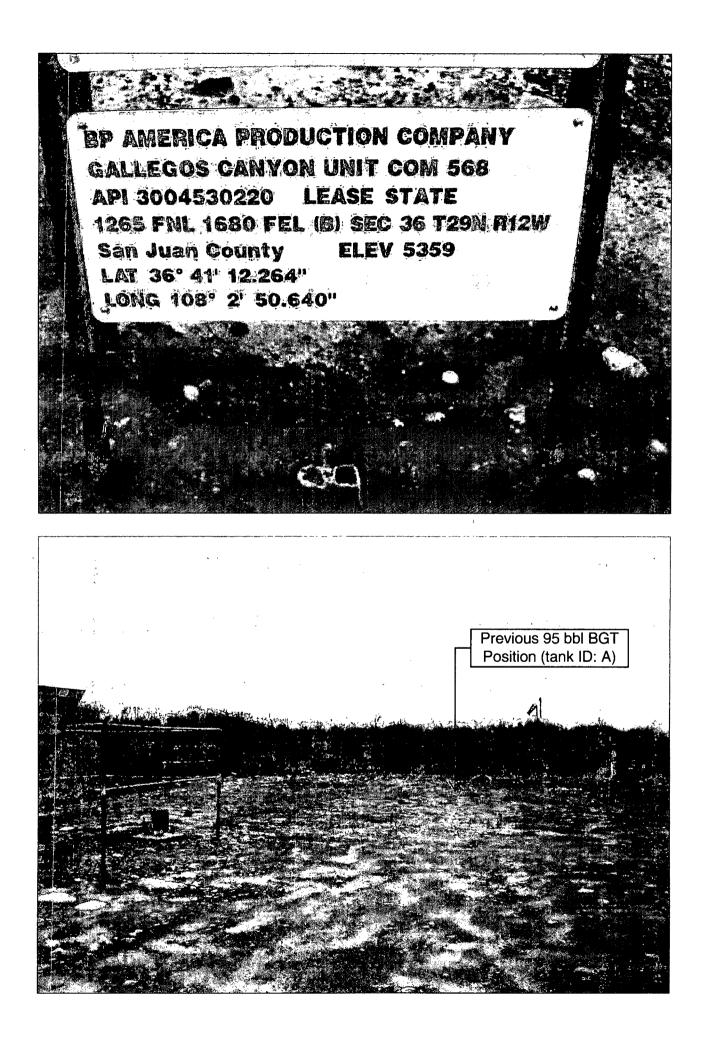
Client Name: BLAGG	Work Order Number:	1306360		RcptNo: 1	
Received by/date:	26/08/13	<u></u>			
Logged By: Ashley Gallegos	6/8/2013 11:00:00 AM		AJ		
Completed By: Ashley Gallegos	6/10/2013 9:56:05 AM		A		
Reviewed By: TO	orticlic		- ()		
<u></u>	_06/10/13			·	
Chain of Custody			N 🗆		
1. Custody seals intact on sample bottles?		Yes⊔	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		<u>Courier</u>			
Log In					
4. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗌		
5. Were all samples received at a temperati	ure 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 tes	st(s)?	Yes 🗹	No 📋		
8. Are samples (except VOA and ONG) prop	perly 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 bro	oken?	Yes 🗆	No 🗹 🛛		
				# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 un	ess noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗔	Adjusted?	,
14. Is it clear what analyses were requested?	•	Yes 🗹	No 🗌		
15. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)				· · · · · · · · · · · · · · · · · · ·	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	th this order?	Yes 🗌	No 🗍	NA 🗹	

Person Notified:	Date:	
By Whom:	Via: 🔄 eMail 🔄 Phone 🗌 Fax 🗌 In Person	
Regarding:		
Client Instructions:		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			



BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Gallegos Canyon Unit Com 568</u> <u>API No. 3004530220</u> <u>Unit Letter B, Section 36, T29N, R12W</u>

RCVD DEC 6'13 OIL CONS. DIV.

DIST. 3

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	13

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest. Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. Groundwater found under the BGT was sampled also and BTEX results were below the required limits. Sampling data is attached.

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

\$

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

The area under the BGT was backfilled with clean soil. It is still within the active area for 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 under the BGT is still within the active area for thewell. 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 is still within the active area for the well. 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 is still within the active area for the well. 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.

ý,

- 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.