Form C-144 July 21, 2008

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

,	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
	Prese to advised that approval of this request does not renew the operator of instruction of surface water, ground water of the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.  1. Operator: BP AMERICA PRODUCTION COMPANY  Address: 200 Energy Court, Farmington, NM 87401  Facility or well name: GALLEGOS CANYON UNIT 079  API Number: 3004506729  OCD Permit Number:  U/L or Qtr/Qtr A Section 9.0 Township 27.0N Range 12W County: San Juan County  Center of Proposed Design: Latitude 36.5943  Longitude -108.11154  NAD: 1927 1983  Surface Owner: Federal State Private Tribal Trust or Indian Allotment
	Pit: Subsection For G of 19.15.17.11 NMAC   RCUD JAN 7 14     Temporary: Drilling Workover   DIL CONS. DIV.     Permanent Emergency Cavitation P&A   DIST. 3     Lined Unlined Liner type: Thickness mil LLDPE   HDPE PVC Other     String-Reinforced     Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
	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: Thickness Haul-off Bins DPE PVC Other Liner Seams: Welded Factory Other
	Below-grade tank: Subsection I of 19.15.17.11 NMAC   Tank ID:   A
	Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

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Officers and Discorp.

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 4' Hogwire with single barbed wire	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
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	
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ※ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No  ▼ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes 🗷 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes 🗷 No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🗷 No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🗷 No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map	☐ Yes 🔀 No
Within a 100-year floodplain FEMA map	☐ Yes 🗷 No

11. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
<ul> <li>✓ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>✓ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul>
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. 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 are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
☐ Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Laner 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   Rieboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Cliffeld Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC
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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground State Instructions: Please indentify the facility or facilities for the disposal of liquids, a facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Irilling fluids and drill cuttings. Use attachment if	O NMAC) more than two
1	Disposal Facility Permit Number:	
<b>{</b>	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) \( \subseteq \text{No} \)	cur on or in areas that will not be used for future ser	vice and operations?
Required for impacted areas which will not be used for future service and operation  Soil Backfill and Cover Design Specifications based upon the appropriate  Re-vegetation Plan - based upon the appropriate requirements of Subsection  Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMA of 19.15.17.13 NMAC	С
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	e administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict 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 scarch; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	ificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp NM Office of the State Engineer - iWATERS database; Visual inspection (of	ring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approva	•	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 Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Proof of Surface Owner Notice based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pa Protocols and Procedures - based upon the appropriate requirements of 19.15.  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection I Disposal Facility Name and Permit Number (for liquids, drilling fluids and dr Soil Cover Design - based upon the appropriate requirements of Subsection I Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC oropriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.1 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC iubsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	5.17.11 NMAC

Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accu	trate and complete to the best of my knowledge and belief.
Name (Print) Aleffrey Peace	Title: Field Environmental Advisor
Signature: Herry H. Resce	Date: <u>06/14/2010</u>
c-mail address: Peace.Jeffrey@bp.com	Telephone: 505-326-9479
20.	
OCD Approval: Permit Application (including closure plan) Cosure	(\. \. \. \. \. \. \. \. \. \. \. \. \. \
OCD Representative Signature:	Approval Date: 16/1/3
Title: Serior Hydrologist	DCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this
22.	
Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.	native Closure Method   Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dr two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on C  Yes (If yes, please demonstrate compliance to the items below)  No	or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and opera	tions:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24. Closure Report Attachment Checklist: Instructions: Each of the following to mark in the box, that the documents are attached.	items must be attached to the closure report. Please indicate, by a check
Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	
■ Waste Material Sampling Analytical Results (required for on-site closure)     ■ Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude 36.5943 Longi	itude <u>/08 · 11154</u> NAD: [] 1927 🔀 1983
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require.	ments and conditions specified in the approved closure plan.
Name (Print): Jeff leace	Title: Field Environmental Advisor
Signature: Off Peace	Title: Field Environmental Advisor  Date: Jahuary 17, 2014  Telephone: (505) 726-9479
e-mail address: page - jellerey O bf. com	Telephone: (505) 726-9479

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

## State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	atio	n and Co	rrective A	ction						
_		_				<b>OPERA</b>	TOR		Initia	al Report	$\boxtimes$	Final Report		
Name of Co	mpany: B	P				Contact: Jef	f Peace							
				M 87401		Telephone No.: 505-326-9479								
Facility Nar	ne: Galleg	os Canyon U	Jnit 79			Facility Type: Natural gas well								
Surface Ow	ner: Feder	al		Mineral C	)wner:	Federal		A	PI No	. 30045067	29			
				LOCA	TIO	N OF REI	FASE	^						
Unit Letter	Section	Township	Range			1/South Line	Feet from the	East/West	Line	County: Sa	n Juan			
A	9	27N	12W	990	North		990	East	Line	County. 5	iii yaan	•		
	I.	Lat	titude3	36.5943		Longitude	108.11154							
				NAT	URE	OF REL	EASE							
Type of Rele	ase: none						Release: N/A	Vc	lume R	lecovered: N	J/A			
		v grade tank -	- 95 bbl			Date and H	our of Occurrenc	e: Da	te and	Hour of Disc	covery			
Was Immedia	ate Notice (			3 N 5 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1		If YES, To	Whom?							
	·		yes _	No 🗵 Not Re	equired									
Unit Letter A Section Township Range 12W 990  Latitude 36.5943  NA  Type of Release: none Source of Release: below grade tank – 95 bbl Was Immediate Notice Given?  Yes No Not By Whom?  Was a Watercourse Reached?  Yes No Not If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.* Samp impacts from the BGT. Soil analysis resulted in TPH, BTEX are backfilled and compacted and is still within the active well area. It hereby certify that the information given above is true and contribution all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 reshould their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-14 federal, state, or local laws and/or regulations.  Signature: A Reference  Title: Field Environmental Advisor  E-mail Address: peace.jeffrey@bp.com						Date and H		1 337 .	<u> </u>					
was a water	course Read	_	Yes ⊠	] No		If YES, Volume Impacting the Watercourse.								
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*										
		•	·											
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken * Sampli	ng of th	ne soil and wat	er beneath the BC	T's was do	ne durii	ng removal :	o ensu	re no soil		
											o onou	70 110 3011		
Describe Are	a Affected a	and Cleanup /	Action Tak	en.* BGT was re	moved	and the area u	nderneath the BG	T was samp	led. Th	ne excavated	area w	vas		
								•				•		
I hereby certi	fy that the i	nformation gi	iven above	is true and comp	lete to	the best of my	knowledge and u	nderstand th	at purs	uant to NMC	CD ru	iles and		
regulations al	l operators	are required to	o report ar	nd/or file certain re	elease i	notifications ar	d perform correc	tive actions	for rele	ases which	may en	danger		
				nance of a C-141	срои	does not renev	e the operator of t	csponsioni	y ioi cc	лириансе w	illi aliy	outei		
^		0					OIL CONS	SERVAT	ION	DIVISIO				
Signatura: ()	alR	York	2				<del></del>							
Signature.	OV	100-		<u> </u>	-	Ammanad b	Envisorus antal Sa	- a a i a 1 i a tu						
Printed Name	: Jeff Peace	2		···		Approved by	Environmental Sp	becianst.						
Title: Field F	nvironment	al Advisor				Approval Dat	e:	Expi	ration I	Date:				
Title. Tield L						pp.ovai Dat	<del></del>	Leapi.	anon L					
E-mail Addre	ss: peace.je	ffrey@bp.cor	n			Conditions of	Approval:			Attached				
Date: January	y 7, 2014		Phone:	505-326-9479										

<sup>\*</sup> Attach Additional Sheets If Necessary

CLIENT BP		•		API#: 300450672					
CLIENI	· ·	•	0/413	TANK ID (if applicble):	1				
FIELD REPORT:	(circle one): BGT CONFIRMATION / F	RELEASE INVESTIGATION / OTH	HER:	PAGE #: <b>1</b>	of				
SITE INFORMATION	SITE NAME: GCU #79	}		DATE STARTED: 12	/03/13				
			ST: NM						
LEASE #: SF078902 A	PROD. FORMATION: FT CON	ELKHORN TRACTOR: MBF - P. AL	EXANDER	SPECIALIST(S):					
REFERENCE POINT	: WELL HEAD (W.H.) GPS C	OORD.: 36.59427	X 108.11141	GL ELEV.:	5,793'				
1) 95 BGT (SW/SB)	DISTANCE/BEAF								
FIELD REPORT: (circle one): BCT CONFRIANTION! / RELAXE MESTICATION / OTHER  SITE INFORMATION: SITEMBLE GCU #79  QUADRUNT: A Sec. 9 TMP: 27N RNG. 12W PM. NM CNIY SJ ST NM  IM. 1464FOOTAGE 990N / 990°E  MENE LEASE TYPE. FEDERALD STATE / FEET INDIAN  LEASE ** \$F078902 A* PROD. FORMATION: FT CONTRACTOR MER. P. A LEXANDER  REFERENCE POINT: WELL HEAD (WH). CYG. SCOOPD. 36.59430 X 108.11154  BSS BGT (SW/SB) GPS COOPD. 36.59430 X 108									
P.O. BOX 87, BLOOMFIELD, NM 87413  (India one): BST COMFINATION / RELASE WYESTGATION / OTHER:  PAGE # 1 of TANK.ID (India processe)  SITE INFORMATION: SITE MAKE GCU #79  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST NM DATE FIRMSHED:  UMADUNT A SEC 9 TMP 27N RNS 12W PM NM CNTY: SJ ST ST NM CNTY: SJ ST ST NM CNTY: SJ ST NM CNTY: SJ ST ST NM CNTY: SJ ST ST NM CNTY: SJ ST									
4)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:					
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR	LAB USED: HALL			READING				
	_			•					
		<del></del>							
SOIL COLOR: DARK YE  COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY  CONSISTENCY (NON COHESIVE SOILS): LO  MOISTURE: DRY (SLIGHTLYMOIST) MOIST / WE  SAMPLE TYPE: GRAB (COMPOSITE) #  DISCOLORATION/STAINING OBSERVED: YES N	PLLOWISH ORANGE  Y COHESIVE / COHESIVE / HIGHLY COHESIVE  DOSE / FIRM / DENSE / VERY DENSE  ET / SATURATED / SUPER SATURATED  OF PTS 5  AU  EXPLANATION	CLASTICITY (CLAYS): NON PLASTIC / DENSITY (COHESIVE CLAYS & SII IC ODOR DETECTED: YES NO EX	SLIGHTLY PLASTIC / CC ILTS): SOFT / FIRM / S XPLANATION -	STIFF / VERY STIFF / HARD	3HLY PLASTIC				
APPARENT EVIDENCE OF A RELEASE OBSERVED EQUIPMENT SET OVER RECLAIMED AREA:	DAND/OR OCCURRED : YES NO EXPLAN YES NO EXPLANATION -	lation:		·					
SOIL IMPACT DIMENSION ESTIMATION:	NA ft. X NA	ft. X <b>NA</b> ft.	EXCAVATION EST	,					
	EAREST WATER SOURCE: >1,000'	NEAREST SURFACE WATER:	>1,000' NMOCI	D TPH CLOSURE STD: 10	00 ppm				
SITE SKETCH	PBGTL	PLOT PLAN circle:	↑ OVM C	CALIB. GAS = 100 r _12:10 am(pm) DATE: _1	ppm 12/03/13				
					TES				
			ļ <del></del> -						
					2				
		_							
					4/10				
	J	ACK		CD Appr. date(s): 10/0	1/13				
P.O. BOX 87, BLOOMFIELD, NM 87413 (S05) 632-1199  FIELD REPORT:  (drie-one): [STCOMFRMATION] RELEASE MESTIGATION / OTHER  PAGE #: 1_ of		Meter							
•									
X - S.P.D.				BGT Sidewalls Visible: Y	/ N				
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO									
			ALL; NA - NOT M	agnetic declination: 1	<u>0°E</u>				
FIELD REPORT:    Conde one   DET COMPRIATION   PAGE # 1 of papeloide   A page   DET COMPRIATION   PAGE # 1 of papeloide   A page   DET COMPRIATION   PAGE # 1 of papeloide   A page # 1 of page   DET COMPRIATION   PAGE # 1 of page # 1 of page   DET COMPRIATION   PAGE # 1 of page # 1 of page # 1 of page   DET COMPRIATION   PAGE # 1 of page # 1 of page   DET COMPRIATION   PAGE # 1 of page # 1 of page   DET COMPRIATION									

#### **Analytical Report**

Lab Order 1312273

Hall Environmental Analysis Laboratory, Inc. Date Reported: 12/13/2013

**CLIENT:** Blagg Engineering

Client Sample ID: 95 BGT 5-pt @ 5'

Project: GCU 79 Collection Date: 12/3/2013 1:45:00 PM

1312273-001 Lab ID:

Matrix: SOIL

Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/11/2013 4:20:28 PN	/I 10701
Surr: DNOP	101	66-131	%REC	1	12/11/2013 4:20:28 PM	1 10701
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/11/2013 1:30:53 AN	<i>l</i> 10721
Surr: BFB	91.8	74.5-129	%REC	1	12/11/2013 1:30:53 AN	A 10721
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	12/11/2013 1:30:53 AN	1 10721
Toluene	ND	0.048	mg/Kg	1	12/11/2013 1:30:53 AM	1 10721
Ethylbenzene	ND	0.048	mg/Kg	1	12/11/2013 1:30:53 AM	1 10721
Xylenes, Total	ND	0.095	mg/Kg	1	12/11/2013 1:30:53 AN	1 10721
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	12/11/2013 1:30:53 AN	1 10721
EPA METHOD 300.0: ANIONS					Analys	t: <b>JRR</b>
Chloride	ND	30	mg/Kg	20	12/11/2013 12:13:09 P	M 10748
EPA METHOD 418.1: TPH					Analys	t: BCN
Petroleum Hydrocarbons, TR	27	20	mg/Kg	1	12/13/2013	10709

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

#### Qualifiers:

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

- Not Detected at the Reporting Limit Page 1 of 6 Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

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	BLAGE BLAGE Address BLOOM Fax#: Package: dard tation AP (Type) Time  1345	BLAGG ENGIN BP AMERIC Address: PO. E BLOOMFIECA  FEX#: Package: dard tation AP Othe (Type)  Time Matrix  1345 Soil  Time: Relinquish 1425 AA Time: Refinquish	BLAGE ENGINEERING IAC.  BP AMERICA Address: P.O. Box 87 BLOOMFIELD NM 97413  Social Social Series  Backage:  Control  Co	BLAGE ENGINEERING TUC.  BP AMERICA  Address: P.O. Box 87  BLOOMFIELD NM 87413  #: 505-632-1199  Fax#: Package: dard	BLAGG ENGINEERING TAIC.  BP AMERICA Address: P.O. Box 87  BLOOMFIELD NM 87413  #: 505-632-1199  Fax#: Package: dard	BLACE ENGINEER TAIL.  BP AMERICA Address: P.O. Box 87  BLOOMFIELD NM 97413  Frax#:  Project Manager:  Project Manager:  Project Manager:  Project Manager:  Project Manager:  Project Manager:  J. BLAGG  T. BLAGG  T. BLAGG  T. BLAGG  T. BLAGG  T. BLAGG  The Matrix Sample Request ID  Time Matrix Sample Request ID  Time Matrix Soil 95 BCT / 4 2x x1 Cool -001  Time: Relinquished by:  Time: Relinquished by:  Time: Resinquished by:  Project Name:  GCU 79  Project Manager:  Project Manager:  Project Manager:  Project Manager:  Project Manager:  T. BLAGG  Container  Type and # Type  HEAL No.  331273  HEAL No.  331273  HEAL No.  331273  HEAL No.  331273  Time: Relinquished by:  Project Manager:  Project Manager:  Project Manager:  Project Manager:  Data Time  Project Manager:  Project	SLAGE ENGINEERIAGE TAIC.  Standard Rush Project Name: GCU 79  BLOOMFIELD NM 97413 Fig. 505-632-1199 Frax#: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Frax#: Frax#: Project Manager: Frax#: Frax#: Project Manager: Frax#: Frax#: Project Manager: Frax#: Frax#: Frax#: Project Manager: Frax#: Frax#: Frax#: Frax#: Project Manager: Frax#: Frax	BLAGE ENGINEERIAS IAIC.  BY AMERICA  Address: P.O. Box 87  BLOOMFIELD NM 97413  ** 505 - 632 - 1199  Frax#:  Project Manager:  J. BLAGE  Gard   Level 4 (Full Validation)  Iation  AP   Other   Sample Temperature  (Type)   Sample Temperature  Container Type and # Type  Time   Matrix   Sample Request ID   Sample Temperature   Sample Temperature	SLACE ENGINEERING TAIC.    Standard   Rush	Standard Rush  BP AMERICA  Address: P.O. Box 87  BLOOMFIELD NM 87413  Froject Manager:  Project Manage	Standard	Standard	BLAGE ENGINEERING INC.  BY AMERICA  Address: P.O. Box 87  BLOOMFIELD, NM 97413  Froject Name:  GCU 79  Hood Hawkins NE - Albour Frank:  Frackit:  Package:  dard   Level 4 (Full Validation)  Italion  AP   Other   Other    (Type)   Sample Temperature:  Time Matrix   Sample Request ID    Time Retinquished by:   Date Time    Time Retinquished by:   Parket : 2  Time Retinquished by:   Parket : 2  Time Retinquished by:   Parket : 2	Standard Rush  Project Name:  BP AMERICA Address: P.O. Box 87  BLOOMFIELD NM 97413  Froject Manager:  Frax#:  Project Manager:  J. BLAGG  Analysis  Analysis	BLAGE ENGINEERING TURE.  BP AMERICA  Address: PO. Box 87  BLOOMFIELD, NM 97413  Froject Manager:  JRAGE  Analysis Res  Analysis L  Woww.hallenvironment  4901 Hawkins NE - Albuquergu  Tel. 505-345-3975 Fax 505-  Analysis Res  Analysis L  Woww.hallenvironment  4901 Hawkins NE - Albuquergu  Tel. 505-345-3975 Fax 505-  Analysis Res  Analysis L  Wow.hallenvironment  4901 Hawkins NE - Albuquergu  Tel. 505-345-3975 Fax 505-  Analysis Res  Analysis L  Wow.hallenvironment  4901 Hawkins NE - Albuquergu  Tel. 505-345-3975 Fax 505-  Analysis Res  Analysi	BLAGE ENGINEERING TUR.    Standard   Rush   Rush	Standard	Standard	Standard	Standard			

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1312273

13-Dec-13

Client:

Blagg Engineering

Project:

GCU 79

Sample ID MB-10748

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 10748

PQL

RunNo: 15448

Prep Date: 12/11/2013

Analysis Date: 12/11/2013

SeqNo: 444879

Units: mg/Kg

HighLimit

Analyte

Result

%RPD **RPDLimit** 

Qual

Chloride

ND 1.5

Sample ID LCS-10748

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Prep Date: 12/11/2013

Batch ID: 10748

**PQL** 

1.5

RunNo: 15448

LowLimit

Units: mg/Kg

Analyte

Analysis Date: 12/11/2013

SeqNo: 444880 %REC SPK value SPK Ref Val

0

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

**RPDLimit** Qual

Chloride

Result 14

15.00

93.8

90 110

#### Qualifiers:

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

P

Page 2 of 6

## **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1312273 13-Dec-13

Client:

Blagg Engineering

Project:

Analyte

**GCU 79** 

Sample ID MB-10709

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

PBS

Batch ID: 10709

RunNo: 15452

Prep Date: 12/9/2013 Analysis Date: 12/13/2013

20

SPK value SPK Ref Val %REC LowLimit

PQL

SeqNo: 444960

Units: mg/Kg

HighLimit

%RPD

Qual

Petroleum Hydrocarbons, TR

Sample ID LCS-10709

ND

Result

Result

97

97

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Prep Date:

Analyte

Analyte

12/9/2013

Batch ID: 10709

RunNo: 15452

%REC

97.3

%REC

Analysis Date: 12/13/2013 PQL

20

Units: mg/Kg

120

SeqNo: 444961

HighLimit %RPD **RPDLimit** Qual

**RPDLimit** 

Petroleum Hydrocarbons, TR

Sample ID LCSD-10709

SampType: LCSD

TestCode: EPA Method 418.1: TPH

RunNo: 15452

80

LowLimit

Client ID: LCSS02 Prep Date: 12/9/2013

Batch ID: 10709 Analysis Date: 12/13/2013

SeqNo: 444962

Units: mg/Kg HighLimit

%RPD

**RPDLimit** 

Qual

Petroleum Hydrocarbons, TR

Result

PQL SPK value SPK Ref Val 20

100.0

100.0

SPK value SPK Ref Val

0 97.3 80

LowLimit

120

0

20

**Oualifiers:** 

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

Sample pH greater than 2 for VOA and TOC only.

ND Not Detected at the Reporting Limit

Page 3 of 6

Reporting Detection Limit

P

# **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1312273

13-Dec-13

Client:

Blagg Engineering

Project:

GCU 79

Sample ID MB-10701	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID: PBS	Batcl	h ID: 10	701	F	RunNo: 1	5408				
Prep Date: 12/8/2013	Analysis D	Date: 12	2/11/2013	9	SeqNo: 4	43949	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		83.4	66	131			
Sample ID LCS-10701	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID: LCSS	Batcl	h ID: 10	701	F	RunNo: 1	5408				
Prep Date: 12/8/2013	Analysis [	Date: 12	2/11/2013	S	SeqNo: 4	43961	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Allaiyle										
Diesel Range Organics (DRO)	53	10	50.00	0	106	62.1	127			

## Qualifiers:

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

Page 4 of 6

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1312273 13-Dec-13

Client:

Blagg Engineering

Project: GCU 79	) 								
Sample ID MB-10721	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 10721	RunNo: 15403							
Prep Date: 12/9/2013	Analysis Date: 12/10/2013	SeqNo: 443665 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	870 1000	86.6 74.5 129							
Sample ID LCS-10721	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 10721	RunNo: 15403							
Prep Date: 12/9/2013	Analysis Date: 12/10/2013	SeqNo: 443666 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Gasoline Range Organics (GRO)	27 5.0 25.00	0 0 107 74.5 126							
Surr: BFB	970 1000	96.8 74.5 129							
Sample ID MB-10684	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 10684	RunNo: 15403							
Prep Date: 12/6/2013	Analysis Date: 12/10/2013	SeqNo: 443683 Units: %REC							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Surr: BFB	930 1000	92.9 74.5 129							
Sample ID LCS-10684	SampType: <b>LCS</b>	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 10684	RunNo: 15403							
Prep Date: 12/6/2013	Analysis Date: 12/10/2013	SeqNo: <b>443685</b> Units: <b>%REC</b>							
Analyte .	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Surr: BFB	1000 1000	0 102 74.5 129							

#### Qualifiers:

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

Page 5 of 6

## **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1312273

13-Dec-13

Client:

Blagg Engineering

Project: GCU 7	'9									
Sample ID MB-10721	SampTy	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	ID: 107	721	RunNo: 15403						
Prep Date: 12/9/2013	Analysis Da	ate: 12	2/10/2013	9	SeqNo: 4	43811	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			
Sample ID LCS-10721	SampTy	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS Batch ID: 10721			RunNo: 15403							
Prep Date: 12/9/2013	rep Date: 12/9/2013 Analysis Date: 12/10/2013			SeqNo: 443812			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	111	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120		<u></u>	
Sample ID MB-10684	SampTy	pe: MB	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 106	684	F	RunNo: 1	5403				
Prep Date: 12/6/2013	Analysis Da	ate: 12	2/10/2013	S	eqNo: 4	43819	Units: %RE	С		
Analyte .	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID LCS-10684	SampTy	/pe: LC	s	Tes	Code: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 106	584	F	tunNo: 1	5403				
Prep Date: 12/6/2013	Analysis Da	ate: <b>12</b>	/10/2013	SeqNo: 443820 Units: %REC						
Analyte	Result	PQL	SPK_value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

#### Qualifiers:

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

Page 6 of 6



1100 Environmental Analysis Lavoratory 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: 1312273 RcptNo: 1 Received by/date: Michelle Garcia 12/6/2013 10:00:00 AM Logged By: Michelle Garcia Completed By: 12/6/2013 6:04:48 PM Reviewed By: Chain of Custod Not Present Yes 🗍 No 🗌 1. Custody seals intact on sample bottles? No 🗌 Yes 🗸 2. Is Chain of Custody complete? Not Present ... 3. How was the sample delivered? Courier Log In Yes 🗸 No 🗌 NA 🔲 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C NA 🗀 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No 🗸 NA 🗆 9. Was preservative added to bottles? No 🗆 No VOA Vials 10. VOA vials have zero headspace? Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🔲 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗸 14. Is it clear what analyses were requested? Checked by: Yes 🗹 No 🗀 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗸 16. Was client notified of all discrepancies with this order? Yes 🗌 No 🗌 Person Notified: Date: By Whom: Via: eMail Phone Fax in Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Condition | Seal Intact | Seal No | Seal Date Cooler No Temp °C Signed By 1.0

#### **BP America Production Company**

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

#### SENT VIA E-MAIL TO: BRANDON.POWELL@STATE.NM.US

November 21, 2013

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

GALLEGOS CANYON UNIT 079 API 30-045-06729 (G) Section 9 – T27N – R12W San Juan County, New Mexico

Dear Mr. Brandon Powell:

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site.

Should you have any questions, please feel free to contact BP at our Farmington office.

Sincerely,

Jeff Peace

BP Field Environmental Advisor

(505) 326-9479





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

November 21, 2013

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

#### VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Notification of plans to close/remove a below grade tank Well Name: GALLEGOS CANYON UNIT 079

Dear Mr. Kelly

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about December 2, 2013. If there aren't any unforeseen problems, the work should be completed within 10 working days.

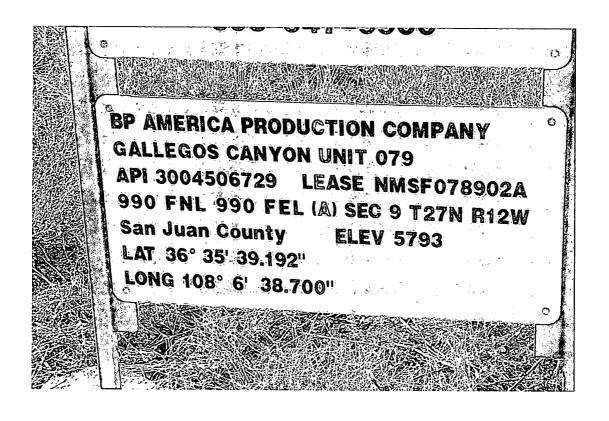
As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

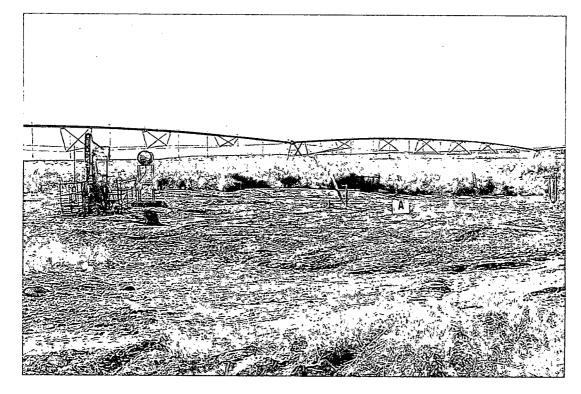
Unless you have questions about this notice, there is no need to respond to this letter. If you do have any questions or concerns, please contact me at 505-326-9214

Sincerely,

Jerry Van Riper Surface Land Negotiator

**BP America Production Company** 





### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

# Gallegos Canyon Unit 79 API No. 3004506729 Unit Letter A, Section 9, T27N, R12W

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

#### **General Closure Plan**

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.

  Notice is attached.
- 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.

#### Notice is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
  - c. Basin Disposal, Permit NM-01-0005 (Liquids)
  - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
  - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

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

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	_ (mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	27
Chlorides	US EPA Method 300.0 or 4500B	250 or background	ND

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

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

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results indicate 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's was backfilled with clean soil and is still within the active well area.

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

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

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

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

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

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

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

BP will seed the area when the well is plugged and abandoned.

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

BP will notify NMOCD when re-vegetation is successful.

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

Closure report on C-144 form is included.

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

Certification section of C-144 has been completed.