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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.			
Decrator: BPX ENERGY INC. (formerly BP America Production Co.) OGRID #: 778			
Address: 1199 Main Ave., Suite 101, Durango, CO 81301			
Facility or well name: GALLEGOS CANYON UNIT 157			
API Number: 3004507067 OCD Permit Number:			
U/L or Qtr/Qtr B Section 35.0 Township 28.0N Range 13W County: San Juan County			
Center of Proposed Design: Latitude 36.62352 Longitude -108.18774 NAD: 1927 🗴 1983			
Surface Owner: 🗷 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment			
2.			
<u>Pit</u>: Subsection F or G of 19.15.17.11 NMAC			
Temporary: Drilling Workover			
Permanent Emergency Cavitation P&A			
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			
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			
4.			
■ Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: B			
Volume: 95.0 bbl Type of fluid: Produced Water			
Tank Construction material: Steel			
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off			
Visible sidewalls and liner Visible sidewalls only Other DOUBLE WALLED DOUBLE BOTTOMED SIDEWALLS NOT VISIBLE			
Liner type: Thickness mil _ HDPE _ PVC _ Other			
5.			
Alternative Method:			

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

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

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

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

Alternate. Please specify

7.

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

Screen Netting Other_

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

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

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

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.	
 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 ☐ 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.	\Box Yes \Box No

- FEMA map

11. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.</i> 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 19.15.17.10 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 		
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 Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number: Previously Approved Operating and Maintenance Plan API Number: adove ground steel tanks or haul-off bins and propose to implement waste removal for closure)		
13. 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 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC		
14. 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)		
15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 		

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)		
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling flu facilities are required.	uids and drill cuttings. Use attachment if n	nore 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 Yes (If yes, please provide the information below) No	in areas that will not be used for future serv	rice 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 19.15.17.13 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 		
^{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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	from nearby wells	☐ Yes ☐ No ☐ NA
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant w lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	atercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existen Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	ce at the time of initial application.	🗌 Yes 🗌 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in e - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	xistence at the time of initial application.	🗌 Yes 🗌 No
 Within incorporated municipal boundaries or within a defined municipal fresh water well fiel adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained 	-	🗌 Yes 🗌 No
Within 500 feet of a wetland.US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	on (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 Mine	ral Division	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Miner Society; Topographic map 	al Resources; USGS; NM Geological	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗌 No
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC 		

- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) based upon the appropriate requirements of 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 standards cannot be achieved)

- Soil Cover Design based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- Site Reclamation Plan based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

^{19.} Operator Application Certification:		
I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and belief.	
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
20. OCD Approval: Permit Application (including closure plan) X Closure PH	an (only) OCD Conditions (see attachment)	
OCD Representative Signature:	Approval Date:	
Title: Environmental Specalist	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. [X] Closure Completion Date: 07/10/2019 		
22.	Closure Completion Date: 07/10/2019	
Closure Method: X Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	tive Closure Method 🔲 Waste Removal (Closed-loop systems only)	
^{23.} <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems</u> <i>Instructions: Please indentify the facility or facilities for where the liquids, drill</i> <i>two facilities were utilized.</i>		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	in areas that <i>will not</i> be used for future service and operations?	
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ons:	
 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 Reclamation (Photo Documentation) On-site Closure Location: Latitude36.62352 Longitude		
25. Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirem		
Name (Print): Erin Dunman	Title: Field Environmental Coordinator	
Signature. Crin Dunman	September 10, 2019	
e-mail address:	Telephone: 832-609-7048	

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

BPX ENERGY

(formally BP America Production Company) SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Gallegos Canyon Unit #157 – Tank ID: B</u> <u>API #: 3004507067</u> <u>Unit Letter B, Section 35, T28N, R13W</u>

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BPX Energy (BPX) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BPX 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. BPX 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 BPX's NMOCD approved BGT design attached to the BPX Design and Construction Plan. BPX shall close an existing BGT that does not meet the requirements (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BPX's NMOCD approve BGT Design attached to the BPX Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BPX 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

- BPX 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. BPX 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 was provided and documented in the attached email.

- 3. BPX 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. BPX 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. BPX Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BPX Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BPX Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BPX Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BPX Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BPX Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BPX Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

<u>All liquids and/or sludge within the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.</u>

- 4. BPX 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 for recycling.
- BPX 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. BPX shall test the soils beneath the BGT to determine whether a release has occurred. BPX 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	< 0.0250
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.0250
TPH	US EPA Method SW-846 418.1	100	<50
Chlorides	US EPA Method 300.0 or 4500B	250 or background	94.6

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 beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits. A field and laboratory reports are attached.

- BPX 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 BPX will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results reveal no evidence of a release has occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BPX 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.

<u>Sampling results reveal no evidence of a release has occurred.</u> Area was backfilled with clean, earthen material and is within the active well pad.

10. BPX 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. BPX 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.

<u>The BGT area has been backfilled with clean, earthen material and is within the active well pad.</u> Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

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.

<u>The BGT area has been backfilled with clean, earthen material and is within the active well pad.</u> Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

12. BPX 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.

<u>The BGT area has been backfilled with clean, earthen material and is within the active well pad.</u> Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

- 13. BPX 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. <u>The BGT area has been backfilled with clean, earthen material and is within the active</u> <u>well pad. Reclamation will be completed within the allowable timeframe and will meet</u> <u>the specified requirements of 19.15.17.13 NMAC.</u>
- Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BPX shall notify the NMOCD when it has seeded or planted and when it successfully achieves re-vegetation.
 BPX will notify NMOCD when re-vegetation is successfully completed.
- 15. Within 60 days of closure completion, BPX 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.

<u>Closure report on C-144 form is included & contains a photo of the current reclamation</u> <u>requirements completed.</u>

16. BPX 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.

From:	Patti Campbell (Patti.Campbell@bpx.com)
To:	Smith, Cory, EMNRD
Cc:	Sabre Beebe (BPX), Erin Dunman, Steve Moskal, Adeloye Abiodun, I1thomas@blm.gov, Nelson Velez, Jeffery Blagg
Date:	Tuesday, July 2, 2019 04:48 PM MDT

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US

July 2, 2019

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 157 API 30-045-07067 (B) Section 35 – T28N – R13W San Juan County, New Mexico

Dear Mr. Cory Smith,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around July 9, 2019.

Should you have any questions, please feel free to contact BP.

Sincerely,

Patti Campbell Regulatory Analyst BP America Production Company BPX Energy Inc. (970) 712-5997 patti.campbell@bpx.com

bpx energy

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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 Department

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party BPX Energy (formerly BP America Production Co.)	OGRID 778					
Contact Name Erin Dunman	Contact Telephone (832) 609-7048					
Contact email Erin.Dunman@bpx.com	Incident # (assigned by OCD)					
Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301						

Location of Release Source

Latitude	36.62352		Longitude	-108.18774					
(NAD 83 in decimal degrees to 5 decimal places)									
Site Name G	ALLEGOS CANYON	UNIT 157	Site Type Natura	al Gas Well					
Date Release	Discovered		API# (if applicable) 3	0-045-07067					
	1								

Unit Letter	Section	Township	Range	County
В	35	28N	13W	San Juan

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
BTEX, & chloride all below below-grade ta	ank (BGT) permit closure standards.
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf) Volume/Weight Released (provide units)

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate n Not required.	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Cin Dunnan September 10, 2019	
email: <u>Erin.Dunman@bpx.com</u> Telephone: <u>(832) 609-7048</u>	
OCD Only Date:	

(505) 632-1199 (If applicible): B B FEELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of 1 SITE INFORMATION: SITE NAME: GCU # 157 QUAD/JUNIT: B SEC: 35 TWP: 28N RNG: 13W PM: NM CNTY: SJ ST: NM ALT FORMATION: SITE NAME: GCU # 157 QUAD/JUNIT: B SEC: 35 TWP: 28N RNG: 13W PM: NM CNTY: SJ ST: NM IA: 1/4/FOOTAGE: 975'N / 2,510'E NW/NE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN IA: SF077967 PROD. FORMATION: DK CONTRACTOR: BPX - S, BEEBE EMIRONMENTAL SPECIALIST(S): NJV REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.62337 X 108.18813 GELEV: 6,067' 1) 95 BGT (DW/DB) GPS COORD.: GPS COORD.: DISTANCEBERAING FROM WH: 3.6.62337 X 108.18813 GELEV: 6,067' ISAMPLE ID: GPS COORD.: DISTANCEBERAING FROM WH: COMORE TO PROD. SAMPLE ID: GPS COORD.: DISTANCEBERAING FROM WH: COMORE TO PROD.
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1) 95 BGT (DW/DB) GPS COORD.: 36.62352 X 108.18774 DISTANCE/BEARING FROM W.H.: 136.5', N51.5E 2) GPS COORD.: DISTANCE/BEARING FROM W.H.:
2)
4)
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL OVM 1) SAMPLE ID: 5PC - TB @ 5' (95) SAMPLE DATE: 07/09/19 SAMPLE TIME: 0820 LAB ANALYSIS: 8015B/8021B/300.0 (CI) NA 2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 1000000000000000000000000000000000000
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL READING (ppm) 1) SAMPLE ID: 5PC - TB @ 5' (95) SAMPLE DATE: 07/09/19 SAMPLE TIME: 0820 LAB ANALYSIS: 8015B/8021B/300.0 (CI) NA 2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 40 SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: LAB ANALYSIS: 41 SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: LAB ANALYSIS: 41 SAMPLE DATE: <td< td=""></td<>
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4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 5) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: SOIL DESCRIPTION: SOIL TYPE: SAND SILT / SILT / SILT / CLAY / CLAY / GRAVEL / OTHER
5) SAMPLE ID:SAMPLE DATE:SAMPLE TIME:LAB ANALYSIS:
SOIL COLOR: DARK YELLOWISH ORANGE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION
SAMPLE TYPE: GRAB (COMPOSITE) # OF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION -
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION -
SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : YES NO EXPLANATION: EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION -
OTHER: MODE OF BLM REPS. NOT PRESENT TO WITNESS CONFIRMATION SAMPLING. GAS WELL IS PLUGGED & ABANDONED (P&A).
EXCAVATION DIMENSION ESTIMATION: <u>NA</u> ft. X <u>NA</u> ft. X <u>NA</u> ft. EXCAVATION ESTIMATION (Cubic Yards) : <u>NA</u> DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: 300' < x <1,000' NMOCD TPH CLOSURE STD: 2,500 ppr
MISCELL. NOTES
PO #: 4301073563
AFE #: X7-0076F-E:REST
PBGTL (×××) ← TB.~5' SIO #: 190040007672 GI #: 745277
$B.G. \longrightarrow DC(00/40)$
FENCE \rightarrow SLOPE OCD Appr date(s): 03/07/17
DIRECTION Tank OVM = Organic Vapor Meter D ppm = parts per million
TO
P&A BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; BGT Sidewalls Visible: Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.
NOTES: GOOGLE EARTH IMAGERY DATE: 4/6/2019. ONSITE: 07/09/19

revised: 11/26/13



BP America Production Co.	Project	Project Name: Gallegos Canyon Unit 157								
PO Box 22024	Project	3-0424		Reported:						
Tulsa OK, 74121-2024	Project	Manager:	Erin	Dunman				07/10/19 14:28		
		P9070	19-01 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	50	-150	1928011	07/09/19	07/09/19	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D		
Surrogate: n-Nonane		103 %	50	50-200		07/09/19	07/09/19	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50	-150	1928011	07/09/19	07/09/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	96.4	20.0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300.0/9056A		

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envirotech-inc.com Labadmin@envirotech-inc.com

Project	Informa	tion			101100-24		Chair	n of Cus	tody		_					Contraction of the			Pa	ge	of
	PX Energy						Report Atten	· ·		對其他	And			e On	10010		State -	TAT		A Progra	
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Project	Manager	Erin Dur	nman - BP	X Engery Ir			zi a duarnar	1/DECZ	on vee	1 P ³	51					041		X			
	255: 1199 Main Ave., Suite 101 Address: State, Zip Durango, CO 81301 City, State, Zip						┥───	· · · · ·		A	nalys	sis ar	d Me	thod	 		State				
<u>City, Sta</u>	ite, Zip D	urango, C	0 81301	(000) 000 70		ty, State, Z		1	- 7.100	l	015									NM CO	UT AZ
				(832) 609-70 ns" below	<u> </u>	10ne: 832	607.1040	1305,32	0,3487	1 <u>8</u>	by 8	ភ្ល	20	9	0.0					X	
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Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D		609.7048		Lab Number	DRO/ by 80	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					narks
0820	7/9/19	Soil	1- 402.			5PC-TB			ſ	V	\checkmark	1			\checkmark					5 point	
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1 Abold anon	lac) attact to	the unline			bpx.com.	• • • • • • • • • • • • • • • • • • •	Use PO 43 or intentionally misla							Samples	requiri	ng therm	i prese	rvation must h	e received on la	e the day they a	ire sampled or
					action. Sampled b		N Intertoonany misia	lelson V	elez	n, udle (ы									C on subsequen	
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Relinquish	ed by: (Sig	nature)	Date		Time	Received b	y: (Signature	0	Date	-11-1	Time	_		T1		D ^a an		<u>12</u>	<u> </u>	<u>T3</u>	
Sample Ma	trix S - Soil	Sd - Solid, S	Sg - Sludge, /	A - Aqueous,	0 - Other	375			Containe	er Typ	eg-	glas		Pertend pert	100.00			ber glass	, v - VOA	2019-00 (2019-00 () () () () () () () () () (
Note: Samp	oles are disca	arded 30 da	ys after resu	ilts are repo	rted unless othe	r arrangements	s are made. Hazar e liability of the lab		les will be r	eturned	d to cli	ent or	dispo	sed of	at the			-		analysis of t	he above
9	len	ivi	rot	ec	h		5796 US Highway 64, Farm	lington, NM 874	101			-	Ph (50	5) 632-0	615 Fx	(505) 63.	-1865				nden lie an
E		Analy	tical Le	aborate	ory		Three Springs - 65 Mercade	the state of the s		81301			Ph (97	0) 259-0	615 Fr	(800) 362	-1879	a factor for		Page	9 of 9



Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/9/2019 Job Number: 03143-0424 Work Order: P907019 Project Name/Location: Gallegos Canyon Unit 157

Report Reviewed By:

Walter Hinking

Date: 7/10/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Ph (505) 632-0615 Fx (505) 632-1865

5796 Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com



BP America Production Co.	Project Name:	Gallegos Canyon Unit 157	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
5PC-TB @ 5' (95)	P907019-01A	Soil	07/09/19	07/09/19	Glass Jar, 4 oz.

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co.	Project Name:	Gallegos Canyon Unit 157		
PO Box 22024	Project Number:	03143-0424	Reported:	
Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

			J •-		···· J					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1928011 - Purge and Trap EPA 5030A										
Blank (1928011-BLK1)				Prepared:	07/09/19 0 A	Analyzed: 0	07/09/19 1			
Benzene	ND	0.0250	mg/kg							
Foluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.71		"	8.00		96.3	50-150			
LCS (1928011-BS1)				Prepared:	07/09/19 0 A	Analyzed: 0	07/09/19 1			
Benzene	4.30	0.0250	mg/kg	5.00		86.0	70-130			
Toluene	4.66	0.0250	"	5.00		93.2	70-130			
Ethylbenzene	4.63	0.0250	"	5.00		92.7	70-130			
,m-Xylene	9.53	0.0500	"	10.0		95.3	70-130			
-Xylene	4.61	0.0250	"	5.00		92.2	70-130			
Total Xylenes	14.1	0.0250	"	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		"	8.00		96.5	50-150			
Matrix Spike (1928011-MS1)	Sou	rce: P907017-	01	Prepared:	07/09/19 0 A	Analyzed: (07/09/19 1			
Benzene	4.29	0.0250	mg/kg	5.00	ND	85.8	54.3-133			
Foluene	4.66	0.0250	"	5.00	ND	93.2	61.4-130			
thylbenzene	4.63	0.0250	"	5.00	ND	92.6	61.4-133			
,m-Xylene	9.54	0.0500	"	10.0	ND	95.4	63.3-131			
-Xylene	4.61	0.0250	"	5.00	ND	92.3	63.3-131			
Total Xylenes	14.1	0.0250	"	15.0	ND	94.3	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.72		"	8.00		96.5	50-150			
Matrix Spike Dup (1928011-MSD1)	Sou	rce: P907017-	01	Prepared:	07/09/19 0 A	Analyzed: (07/09/19 1			
Benzene	4.42	0.0250	mg/kg	5.00	ND	88.4	54.3-133	2.99	20	
Foluene	4.80	0.0250	"	5.00	ND	96.0	61.4-130	2.91	20	
Ethylbenzene	4.77	0.0250	"	5.00	ND	95.4	61.4-133	3.00	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	2.99	20	
-Xylene	4.76	0.0250	"	5.00	ND	98.2 95.2	63.3-131	3.09	20	
Fotal Xylenes	4.70	0.0250		15.0	ND	95.2 97.2	63.3-131	3.02	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77	0.0230	"	8.00	112	97.1	50-150	5.02	20	
and gane. I be shown of oben bene 1 115	/.//			0.00		27.1	50 150			

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BP America Production Co.	Project Name:	Gallegos Canyon Unit 157	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

			•		•					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1928016 - DRO Extraction EPA 3570										
Blank (1928016-BLK1)				Prepared &	Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.9		"	50.0		97.8	50-200			
LCS (1928016-BS1)				Prepared &	Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.4	38-132			
Surrogate: n-Nonane	52.1		"	50.0		104	50-200			
Matrix Spike (1928016-MS1)	Sou	rce: P907006-	01	Prepared &	Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	562	25.0	mg/kg	500	74.4	97.6	38-132			
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			
Matrix Spike Dup (1928016-MSD1)	Sou	rce: P907006-	01	Prepared &	Analyzed:	07/09/19 1				
Diesel Range Organics (C10-C28)	591	25.0	mg/kg	500	74.4	103	38-132	4.94	20	
Surrogate: n-Nonane	53.1		"	50.0		106	50-200			

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BP America Production Co.	Project Name:	Gallegos Canyon Unit 157	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1928011 - Purge and Trap EPA 5030A										
Blank (1928011-BLK1)				Prepared: ()7/09/19 0 A	Analyzed: 0	7/09/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		"	8.00		101	50-150			
LCS (1928011-BS2)				Prepared: ()7/09/19 0 A	Analyzed: 0	7/09/19 1			
Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		104	50-150			
Matrix Spike (1928011-MS2)	Sourc	e: P907017-	01	Prepared: ()7/09/19 0 A	Analyzed: 0	7/09/19 1			
Gasoline Range Organics (C6-C10)	52.7	20.0	mg/kg	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			
Matrix Spike Dup (1928011-MSD2)	Sourc	e: P907017-	01	Prepared: ()7/09/19 0 A	Analyzed: 0	7/09/19 1			
Gasoline Range Organics (C6-C10)	54.9	20.0	mg/kg	50.0	ND	110	70-130	4.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		"	8.00		102	50-150			

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Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1928013 - Anion Extraction EPA 30)0.0/9056A									
Blank (1928013-BLK1)				Prepared: 0	07/09/19 0 4	Analyzed: 0	7/09/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1928013-BS1)				Prepared: 0)7/09/19 0 A	Analyzed: 0	7/09/19 1			
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1928013-MS1)	Sour	ce: P907017-	01	Prepared: 0	07/09/19 0 4	Analyzed: 0	7/09/19 1			
Chloride	268	20.0	mg/kg	250	ND	107	80-120			
Matrix Spike Dup (1928013-MSD1)	Sour	ce: P907017-	01	Prepared: 0)7/09/19 0 A	Analyzed: 0	7/09/19 1			
Chloride	267	20.0	mg/kg	250	ND	107	80-120	0.250	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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24 Hour Emergency Response Phone (800) 362-1879



BP America Production Co.	Project Name:	Gallegos Canyon Unit 157		
PO Box 22024	Project Number:	03143-0424	Reported:	
Tulsa OK, 74121-2024	Project Manager:	Erin Dunman	07/10/19 14:28	

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

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