s		
District I	State of New Mexico	Form C- Revised June 6, 2
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	Energy Minerals and Natural Resources	
811 S. First St., Artesia, NM 88210 District III	Department Oil Conservation Division	For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to appropriate NMOCD District Office.
1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South St. Francis Dr.	For permanent pits submit to the Santa Fe
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	<b>For permanent pits</b> submit to the Santa Fe Environmental Bureau office and provide a co to the appropriate NMOCD District Office.
	Pit, Below-Grade Tank, or	
12796 Proposed Al	ternative Method Permit or Closure	Plan Application
Type of action: 🗌 Bel	ow grade tank registration	
45 08387 Per	mit of a pit or proposed alternative method sure of a pit, below-grade tank, or proposed alterna	
	dification to an existing permit/or registration	tive method
🔀 Clo	sure plan only submitted for an existing permitted of	or non-permitted pit, below-grade tank,
or proposed alternative m		
	t one application (Form C-144) per individual pit, below	
	s not relieve the operator of liability should operations result or of its responsibility to comply with any other applicable g	
1. Operator: BP AMERICA PRODUCTIO	N COMPANY OGRID #:	778
Address: 200 ENERGY COURT, FARM	ADICTON NIM 05401	
Facility or well name: STATE GAS COM		
	16.0 Township 29.0N Range 09W	
	5.729445 Longitude - 107.7	
Surface Owner: X Federal State Privat		
		1
2. Pit: Subsection F, G or J of 19.15.17.11	BY: <u>Cory Smith</u> DATE:(505) 334-6178 Ext. 115	HEREN BEEN Closed.
Temporary: Drilling Workover	BY: Cory Smith 15	LE OF Approval
Permanent Emergency Cavitation [	DATE:(505) 334-6178 Ext. 115	Low Chloride Drilling Fluid 🗌 yes 🗌 no
Lined Unlined Liner type: Thicknes	s mil LLDPE HDPE PVC	Dther
String-Reinforced		
Liner Seams: Welded Factory Oth	er Volume: bl	bl Dimensions: L x W x D
3. Below-grade tank: Subsection I of 19.15	5.17.11 NMAC <u>TANK ID: B</u>	RECEIVED
Volume: 95 bbl Type		
Tank Construction material: STEEL		MAR 1 6 2015
	n Visible sidewalls, liner, 6-inch lift and automatic of	overflow shut-off
Visible sidewalls and liner Visible side	dewalls only 🗌 Other	\ NMOCD /
Liner type: Thickness	mil HDPE PVC Other Single walled/Double	e bottom, sidewalls not visible RICT
4.		
Alternative Method:		
Submittal of an avaantian request is required	Exceptions must be submitted to the Santa Fe Environm	nental Bureau office for consideration of approval
Submittal of an exception request is required.		
5.	Compliants to paymanant pits tamparant pits, and balant	arada tanks)
5. Fencing: Subsection D of 19.15.17.11 NMAC	C (Applies to permanent pits, temporary pits, and below-s	
5. Fencing: Subsection D of 19.15.17.11 NMAC	C (Applies to permanent pits, temporary pits, and below-g f barbed wire at top (Required if located within 1000 feet	
<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAG</li> <li>Chain link, six feet in height, two strands of <i>institution or church</i>)</li> <li>Four foot height, four strands of barbed with</li> </ul>	f barbed wire at top ( <i>Required if located within 1000 feet</i> re evenly spaced between one and four feet	t of a permanent residence, school, hospital,
<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC</li> <li>Chain link, six feet in height, two strands o <i>institution or church</i>)</li> </ul>	f barbed wire at top ( <i>Required if located within 1000 feet</i> re evenly spaced between one and four feet	t of a permanent residence, school, hospital,
<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAG</li> <li>Chain link, six feet in height, two strands of <i>institution or church</i>)</li> <li>Four foot height, four strands of barbed with</li> </ul>	f barbed wire at top ( <i>Required if located within 1000 feet</i> re evenly spaced between one and four feet	t of a permanent residence, school, hospital,

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

Screen Netting Other

6.

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

#### Variances and Exceptions:

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

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

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

#### 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. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☑ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes⊠ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
<ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No

Within 100 feet of a wetland. <ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul> <b>Temporary Pit Non-low chloride drilling fluid</b> Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). <ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul> Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes 🗌 No
<ul> <li>or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock	Yes No
watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;	Yes No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 500 feet of a wetland.	Yes No
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAG         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume attached.            M Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC            M Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC            M Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC            M Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC            M Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC            M Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17             Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number: or Permit Number: or Permit Number:	ments are MAC .17.9 NMAC
Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume attached.            Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         A List of wells with approved application for permit to drill associated with the pit.         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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12.         Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Muisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
13.         Proposed Closure:       19.15.17.13 NMAC         Instructions:       Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.         Type:       Drilling       Workover       Emergency       Cavitation       P&A       Permanent Pit       Below-grade Tank       Multi-well F          Alternative        Proposed Closure Method:       Waste Excavation and Removal          Waste Removal (Closed-loop systems only)        On-site Closure Method (Only for temporary pits and closed-loop systems)	luid Management Pit
<ul> <li>Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li> Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC </li> <li> Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC </li> <li> Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) </li> <li> Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC </li> <li> Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC </li> <li> Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC </li> </ul>	attached to the
15. <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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA
<ul> <li>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; W	Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EM	INRD-Mining and Mineral Division	🗌 Yes 🗌 No
Within an unstable area.		
	eau of Geology & Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No
Within a 100-year floodplain.		
- FEMA map		Yes No
<ul> <li>Construction/Design Plan of Temporary Pit (for in-place buria</li> <li>Protocols and Procedures - based upon the appropriate requirer</li> <li>Confirmation Sampling Plan (if applicable) - based upon the ap</li> <li>Waste Material Sampling Plan - based upon the appropriate re</li> <li>Disposal Facility Name and Permit Number (for liquids, drillin</li> <li>Soil Cover Design - based upon the appropriate requirements of</li> <li>Re-vegetation Plan - based upon the appropriate requirements</li> <li>Site Reclamation Plan - based upon the appropriate requirement</li> </ul>	ppropriate requirements of 19.15.17.10 NMAC equirements of Subsection E of 19.15.17.13 NMAC ed upon the appropriate requirements of Subsection K of 19.15.17. l of a drying pad) - based upon the appropriate requirements of 19. ments of 19.15.17.13 NMAC ppropriate requirements of 19.15.17.13 NMAC quirements of 19.15.17.13 NMAC ng fluids and drill cuttings or in case on-site closure standards cann of Subsection H of 19.15.17.13 NMAC of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:		
I hereby certify that the information submitted with this application i	s true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): JEFFREY PEACE	Title: FIELD ENVIRONMENTAL AD	
Signature: Jeffrey Peace	Date: March 16, 2015	
e-mail address: Peace.Jeffrey @ bp.com	Telephone: 505-326-9479	
18. OCD Approval: DENIED	Closure Plan (only) OCD Conditions (see attachment)	
OCD Represent	Approval Date:	
Title:	OCD Permit Number:	
19.		
<u>Closure Report (required within 60 days of closure completion)</u> : Instructions: Operators are required to obtain an approved closure The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtained	plan prior to implementing any closure activities and submitting 60 days of the completion of the closure activities. Please do not	
	Closure Completion Date:	
If different from approved plan, please explain.	Alternative Closure Method Waste Removal (Closed-lo	oop systems only)
If different from approved plan, please explain.         21.         Closure Report Attachment Checklist: Instructions: Each of the 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 for private 1         Plot Plan (for on-site closures and temporary pits)         Confirmation Sampling Analytical Results (if applicable)         Waste Material Sampling Analytical Results (required for on-stere Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)         On-site Closure Location: Latitude	following items must be attached to the closure report. Please in and only)	dicate, by a check

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Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

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## SITING AND HYDRO-GEOLOGICAL REPORT FOR STATE GAS COM BF 001

### SITING CRITERIA 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983) and depth to groundwater data obtained from water wells permitted by the New Mexico State's Engineer's Office (NMOSE). Local topography and proximity to adjacent water features are also considered. An aerial map provided as Figures 1 demonstrates that there are no freshwater wells or springs used for public or livestock consumption within 200 feet of the proposed BGT position. A topographic map of the BGT site is provided as Figure 2 and illustrates that the BGT is not within 100 feet of any continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland, or playa lake as measured from the ordinary high water mark.

#### LOCAL GEOLOGY AND HYDROLOGY

This particular site is located on a gentle slope at the base of Manzanares Mesa, approximately 1.20 miles from the main channel of Largo Canyon. Regional topography of Largo Canyon is composed of mesas dissected by deep, narrow canyons and arroyos. The more resistant cliff-forming sandstones of the San Jose Formation cap the interbedded siltstones, shales and sandstones of the Nacimiento Formation. Accumulations of talus and eroded sands at the base of canyon walls form steep to gentle slopes that transition into flat-bottomed arroyos within the canyons. Deposits of Quaternary alluvial and eolian sands occur prominently near the surface of Largo Canyon, especially near streams and washes.

### REGIONAL GEOLOGY AND HYDROLOGY

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional system with fluvial having a lesser impact. Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The predominant geologic formation this close to Largo Wash is Quaternary alluvium. Alluvial valley fill consists of gravel, sand, silt and clay (Stone et al., 1983). Numerous shallow wells produce water from valley fill for stock and domestic uses along the river and transmissivities are generally high. Most recharge to the alluvium results from infiltration of stormflow, but small quantities are also contributed from bedrock sources.

#### References

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p



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# New Mexico Office of the State Engineer Wells with Well Log Information

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 251809.68

Northing (Y): 4068460.99

Radius: 60.96

No wells found.

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

3/15/15 11:15 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION



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# New Mexico Office of the State Engineer **Active & Inactive Points of Diversion**

(with Ownership Information)

POD Search:

POD Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 251809.68

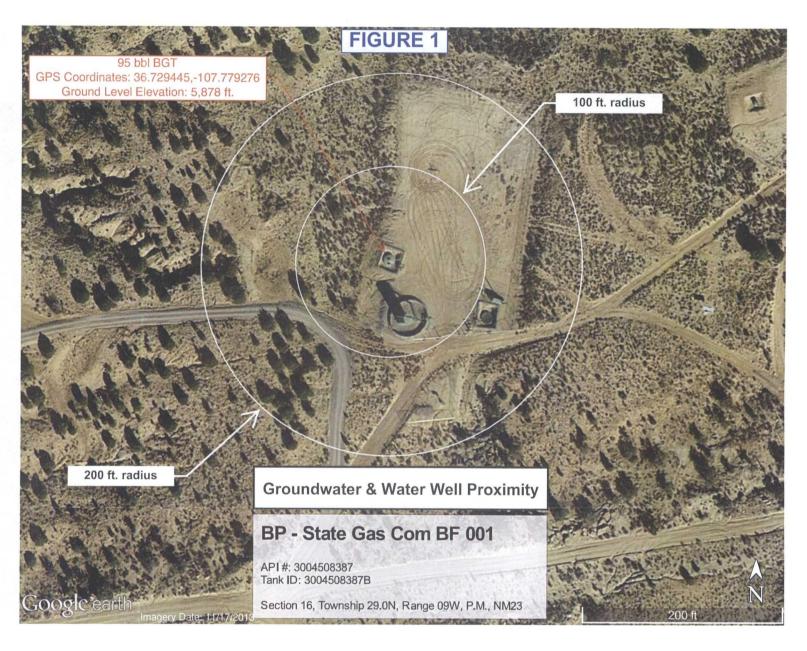
Northing (Y): 4068460.99

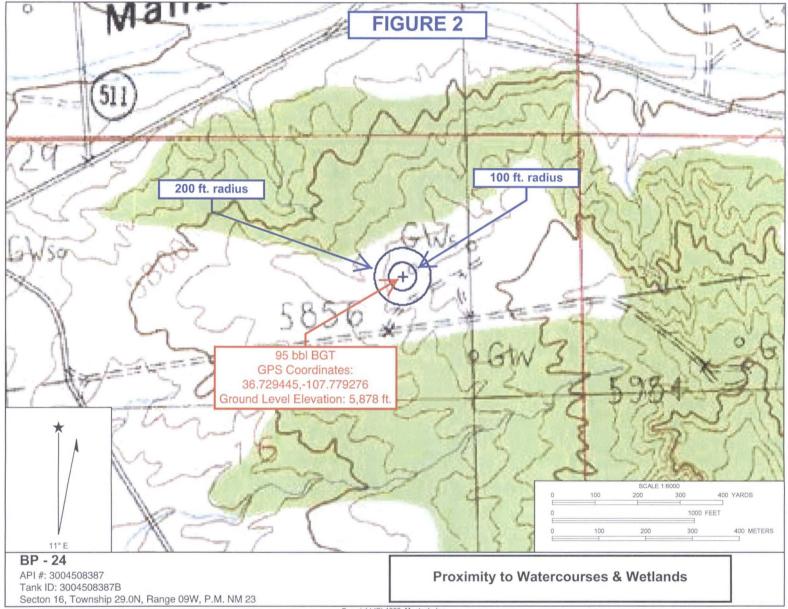
Radius: 60.96

No PODs found.

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data. 3/15/15 11:17 AM Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION





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## BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

This plan will address the method, procedures, and protocols for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites pursuant to Subsection A of 19.15.17.13 NMAC. As stipulated in Paragraph (1) of Subsection C of 19.15.17.13 NMAC, BP will not commence closure without first obtaining approval of the closure plan submitted pursuant to Paragraph (3) of Subsection B of 19.15.17.9 NMAC. If deviations from this plan are necessary, BP will request preapproval from the Division District III office of any specific changes and will be included on form C-144. BP shall close its BGTs within 60 days of cessation of the operation as required by Paragraph (4) of Subsection G of 19.15.17.13 NMAC.

#### **General Closure Plan**

- 1. BP shall notify the surface owner by certified mail; return receipt requested that it plans to close a BGT. Notice given will be at least 72 hours in advanced, but not more than one week prior to any closure operation. The notice shall include the well name, API number, and legal description of the location. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
- 2. BP shall notify the Division District III office verbally and in writing at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the Operator's name, and the location of the BGT 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.
- 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 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)
- 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 Division District III office approves. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.
- 5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for some other purpose.
- 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 to include any obvious stained or wet soils, or other evidence of a release under the BGT. The composite sample shall be collected and analyzed as required for the constituents listed in Table I within Subparagraph (a) of Paragraph (3) of Subsection C of 19.15.17.13 NMAC (see Table 1 on following page).

	Та	ble 1	
Cl	osure Criteria for Soils	Beneath Below-Grade Tanks	
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤50 feet	Chloride	EPA 300.0	600 mg/kg
	ТРН	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
51 feet-100 feet	Chloride	EPA 300.0	10,000 mg/kg
	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH

= total petroleum hydrocarbons, TDS = total dissolved solids.

Or other test methods approved by the division
 \*\* Numerical limits or natural background level, whichever is a

- \*\* Numerical limits or natural background level, whichever is greater
- 7. If any contaminant concentration exceeds those standards set in Table I, BP will acknowledge NMOCD's position to require additional delineation upon review of the results. BP will not proceed with any further closure activities until approval is first granted by NMOCD.
- 8. If the sampling demonstrates that all contaminant constituents do not exceed the concentrations specified in Table I, then BP shall backfill the excavation, with non-waste containing, uncontaminated, earthen material.
- 9. 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 Paragraph (2) of Subsection H of 19.15.17.13 NMAC, re-contour the BGT location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Paragraph (5) of Subsection H of 19.15.17.13 NMAC.
- 10. BP may propose an alternative to the re-vegetation or recontouring requirement if it can demonstrate to the NMOCD's District III office that the proposed alternative provides equal or greater prevention of erosion, and protection of fresh water, public health and the environment. BP will seek surface owner approval of the proposed alternative and provide written documentation of the surface owner's approval to NMOCD for its approval.
- 11. Areas reasonably needed for production operations or for subsequent drilling operations shall be compacted, covered, paved, or otherwise stabilized and maintained in such a way as to minimize dust and erosion to the extent practicable.
- 12. The soil cover for closures after site contouring, where the BGT has been removed and if necessary remediated beneath the BGT to chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, shall consist of the background thickness of topsoil or one foot or suitable material, whichever is greater.

- 13. 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.
- 14. All areas disturbed by the closure of the BGT, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.
- 15. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure of the BGT.
- 16. Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
- 17. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of BP subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.
- 18. Pursuant to Subparagraph (e) of Paragraph (5) of Subsection H of 19.15.17.13 NMAC, BP shall notify the NMOCD when reclamation and re-vegetation has been successfully achieved.
- 19. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
  - a. necessary attachments to document all closure activities
  - b. sampling results
  - c. information required by 19.15.17 NMAC
  - d. details on back-filling, capping and covering, where applicable.
- 20. 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.

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

> DISTRICT III NMOCD RECEIVED RECEIVED

March 16, 2015

Mr. Jonathan Kelly Compliance Officer New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

Re: State Gas Com BF 1; 95 bbl BGT API No. 3004508387; Unit letter A, Section 16, T29N, R9W

Dear Mr. Kelly:

BP America respectfully requests a variance from the fencing requirement for below grade tanks specified in Subsection D of Rule 19.15.17.11 which states a four feet high fence of barbed wire, evenly spaced is required.

BP plans to install a four feet high fence consisting of hogwire, with a single strand of barbed wire place above the hogwire on top of the fence. This fence will be equal or more protective than the specified fence listed under the current rule.

If you have any questions or concerns, please contact me at (505) 326-9479 or at peace.jeffrey@bp.com.

Sincerely,

Jeff Peace, P. E. Field Environmental Coordinator