OIL CONS. DIV DIST. 3

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

JAN 1 5 2016

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

	Pit, Below-Grade Tank, or
1100	Proposed Alternative Method Permit or Closure Plan Application
1192	Type of action: Below grade tank registration
11-	Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method
45	Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration
	Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
	or proposed alternative method
	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
lease 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. No	does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance
Operator: BP	AMERICA PRODUCTION COMPANY OGRID #: 778
	ENERGY COURT, FARMINGTON, NM 87401
	name: A L ELLIOTT D 009
	3004526138 OCD Permit Number:
	N Section 11.0 Township 29.0N Range 09W County: San Juan
	sed Design: Latitude <u>36.734940</u> Longitude <u>-107.751801</u> NAD: □1927 ⊠ 1983
Surface Owner:	☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
2.	
Pit: Subse	ction F, G or J of 19.15.17.11 NMAC
Temporary:	Drilling Workover
	Drilling
Permanent [
Permanent [Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Permanent [Lined U U String-Reint	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ Permanent [☐ Lined ☐ U☐ String-Reint	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other Forced
Permanent [Lined U] String-Reinf Liner Seams: []	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other Forced Volume:bbl Dimensions: Lx Wx D TANKING P.
Permanent [Lined U String-Reinst Liner Seams: [3. Below-grad	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thicknessmil LLDPE HDPE PVC Other Forced Welded Factory OtherVolume:bbl Dimensions: Lx Wx D E tank: Subsection I of 19.15.17.11 NMAC TANK ID: B
Permanent [Lined Liner Seams: [3. Below-grad Volume:	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thicknessmil LLDPE HDPE PVC Other Forced Welded Factory OtherVolume:bbl Dimensions: Lx Wx D Letank: Subsection I of 19.15.17.11 NMAC TANK ID: B 21
Permanent [Lined Liner Seams: [3. Below-grad Volume: Tank Construction of the contract of the contrac	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thicknessmil LLDPE HDPE PVC Other Forced Welded Factory OtherVolume:bbl Dimensions: Lx Wx D E tank: Subsection I of 19.15.17.11 NMAC TANK ID: B 21 bbl Type of fluid: PRODUCED WATER on material: STEEL
Permanent [Lined U] String-Reinf Liner Seams: [] 3. Below-grad Volume: Tank Constructi Secondary	Emergency
Permanent [Lined U] String-Reinf Liner Seams: [] 3. Below-grad Volume: Tank Constructi	Emergency
Permanent [Lined U String-Reint Liner Seams: [3. Below-grad Volume: Tank Construct Secondary Usible side	Emergency
Permanent [Lined Liner Seams: [3.	Emergency
Permanent [Lined Liner Seams: [] 3. Below-grad Volume: Tank Construct Secondary [Visible side Liner type: Thi	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Volume: bbl Dimensions: L x W x D Dimensions: L x W x D
Permanent [Lined Liner Seams: [] 3. Below-grad Volume:	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Volume: bbl Dimensions: L x W x D Dimensions: L x W x D
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Permanent [Lined U String-Reinf Liner Seams: [] 3. Selow-grad Volume:	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Other Doroced Welded Factory Other Volume: bbl Dimensions: L x W x D Dimens
Permanent [Lined	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Other Volume: bbl Dimensions: L x W x D Dimensions: L x
Permanent [Lined	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Other Developed Welded Factory Other Volume: bbl Dimensions: L x W x D Dime
Permanent [Lined	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Inlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Other Other Dimensions: L x W x D Other Dimensions: L x W x D Dimensions: L x W x

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)	
5. 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.	
9. 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 accumaterial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
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
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) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - 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. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
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.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
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). - Topographic map; Visual inspection (certification) of the proposed site	
	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the 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 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. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	9 NMAC .15.17.9 NMAC
11.	
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 do 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 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:	

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	
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC	
☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
☐ Freeboard and Overtopping Prevention 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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	luid Management Pit
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	
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. □ 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 C 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 H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	-170
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. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is 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
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 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). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 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. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	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	□ Ves □ Ne
Within incorporated municipal boundaries or within a defined municipal frach water well field covered under a municipal ordinance	Yes No

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 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
16.	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 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 H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believe	ef.
Name (Print): STEVEN MOSKAL Title: FIELD ENVIRONMENTAL ADV	
Name (Print): STEVEN MOSKAE	ISOR
Signature: Date: 2 15/2016	
e-mail address: Steven.Moskal@bp.com Date: 2 15 20 6 Telephone: 505-326-9497	
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497	
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	116
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/3	1/6
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	1/6
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e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/3	the closure report.
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/3 Title: Closure Report (required within 60 days of closure completion): 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	the closure report.
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 Telephone: 505-326-9497 Telephone: 505-326-9497 Title: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) Approval Date: 3/3 Closure Report (required within 60 days of closure completion): 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
e-mail address: Steven.Moskal@bp.com Telephone: 505-326-9497 18. OCD Approval:	the closure report. complete this op systems only)

Operator Closure Certification:		
	bmitted with this closure report is true, accurate and complete to the best of my knowledge and pplicable closure requirements and conditions specified in the approved closure plan.	
benefit I also certify that the closure complies with all	pproduct elocate requirements and contantons specified in the approved elocate plant	
Name (Print):	Title:	_
Signature:	Date:	
e-mail address:	Telephone:	

Page 6 of 6



BP America Production Company

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

OIL CONS. DIV DIST. 3

FEB 18 2016

February 16, 2016

Mr. Cory Smith Environmental Specialist New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

Re: A L Elliott D 009 – BGT Closure Plan: Additional Information

API No. 3004526138; Unit letter N, Section 11, T29N, R09W

Dear Mr. Smith:

BP has provided additional information to include into the BGT Closure Plan submitted to your office on February 15, 2016. Attached is a monitoring well log for an adjacent site, the A L Elliott B 003E, detailing the depth to water found in the installation of the monitoring well. The well log is referenced in the A L Elliott D 009 BGT Closure plan under the "Siting and Hydro-Geological Report" section.

If you have any questions or concerns, please contact me at (505) 326-9497 or at Steven.Moskal@bp.com.

Sincerely,

Steve Moskal

Field Environmental Coordinator

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615

BORE HOLE REPORT

PROJECT: MONITOR WELL DRILLING PROJECT (EXPANDED VULNER, AREA)

CLIENT: AMOCO PRODUCTION COMPANY

CONTRACTOR: ENVIROTECH INC.

EQUIPMENT USED: DRILLING RIG (CME 55)

BORING No: BH -2 JOB No: 92140

PAGE No: 8 LOCATION: AL ELUOTT 85E

DATE START: 11/18/92 DATE FINISH: 11/18/92

OPERATOR: MD PREPARED BY: NV

EPTH FEET	nscs	OVM PPM	SAMPLE TYPE	BLOW/ FOOT	FIELD CLASSIFICATION AND REMARKS		
5 -	SM	ND	CUTG	NA	BROWN SILT-SAND, SLIGHTLY MOIST, LOOSE TO SLIGHTLY DENSE, NO APPARENT ODOR.		
10 -	SM	5.2	SPT	NA	YELLOWISH BROWN SILT-SAND, SLIGHTLY MOIST, LOOSE TO SLIGHTLY DENSE, NO APPARENT ODOR.		
15 -	SM	5.2	CUT'G	NA	SAA.		
20-	MZ	106.2	SPT	NA	SAA, MOIST.		
25-	SM	41.3	CUT'G	NA	SAA, SLIGHT ODOR.		
30-	SM	62.2	SPT	NA	BROWN SILT-SAND, MOIST, SLIGHTLY DENSE, SLIGHT ODOR.		
35-	SM/ SG	72.2	CUT'G	NA	BROWN SILT-SAND WITH SOME GRAVEL, MOIST, SLIGHTLY DENSE, SLIGHT ODOR.		
0-	SM	40.0	SPT	NA	BROWN SILT-SAND, MOIST, SLIGHTLY DENSE, SLIGHT ODOR.		
-5-	SM	69.8	CUT'G	NA	BROWN SAND, MOIST, SLIGHTLY DENSE, SLIGHT ODOR. SOIL TPH ANALYSIS @ 45' (USEPA Method 418.1) = NON DETECT.		
50- 55-					NOTESI SPT - SPLIT SPOON SAMPLE COLLECTED BY DRILL RIG. CUT'G - GRAB SOIL SAMPLE. ND - NONE DETECTED. VTR - GROUNDWATER SAMPLE. SAA - SAME SOIL TYPE AS DESCRIBED ABOVE EXCEPT AS NOTED. DVM - SOIL SAMPLE COLLECTED DURING EXPLORATION. ANALYZED FOR HYDROCARBON VAPORS PER NNED HEADSPACE FIELD METHOD USING THERMO ENVIRONMENTAL INSTRUMENTS MODEL S80-B DRGANIC VAPOR METER (DVM). TPH - TOTAL PETROLEUM HYDROCARBONS. REFER TO LAB ANALYSIS MV #2 (45°).		
					TOTAL DEPTH: 56 FEET GROUNDVATER DEPTH: 47 FEET @ 1100 (11/18/92) COMPLETION: SEE SHEET #4 (MONITOR VELL DETAILS) HV - 2). DRAWING: THRP DATE: 02-11- DWN BY: NV		

SITING AND HYDRO-GEOLOGICAL REPORT FOR A L ELLIOTT D 009

SITING CRITERIA 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be between 99 and 104 feet (ft.). In 1992, groundwater monitor wells installed at the then Amoco Production Company's A L Elliott B 003E well site (currently operated by XTO Engery, Inc. and located in SE/4 SE/4, Section 10, T29N, R9W, NM23) recorded depths to water between 41 to 46 ft. below grade (b.g.). The elevation difference between the two sites is approximately 58 feet (5,912 ft. and 5,854 ft. respectively as noted in the New Mexico Oil Conservation Division's well file database). In addition, data provided by Stone and others (1983), local topography and proximity to adjacent water features were 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 BGT location. A topographic map 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. Currently, the southern bank of the Manzanares Canyon wash is approximately 800 feet north from the BGT position.

LOCAL GEOLOGY AND HYDROLOGY

This particular site is located in Manzanares Canyon approximately 800 feet south of the main channel of Largo Wash. 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.

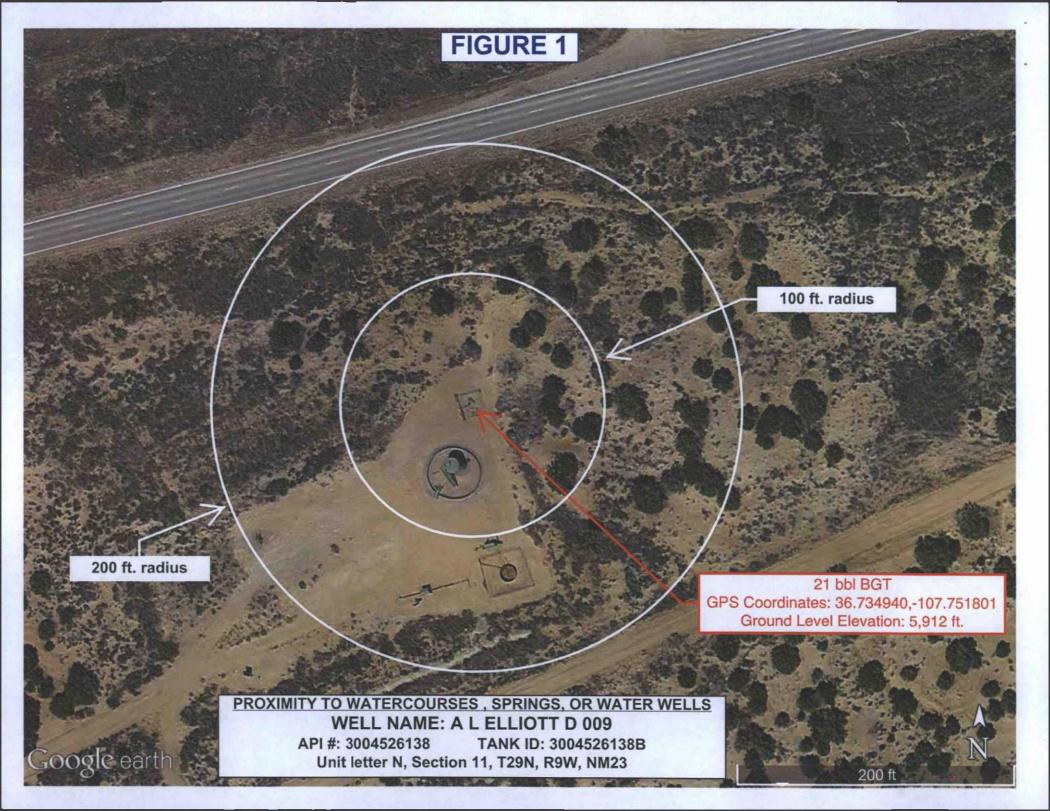
REGIONAL GEOLOGY AND HYDROLOGY

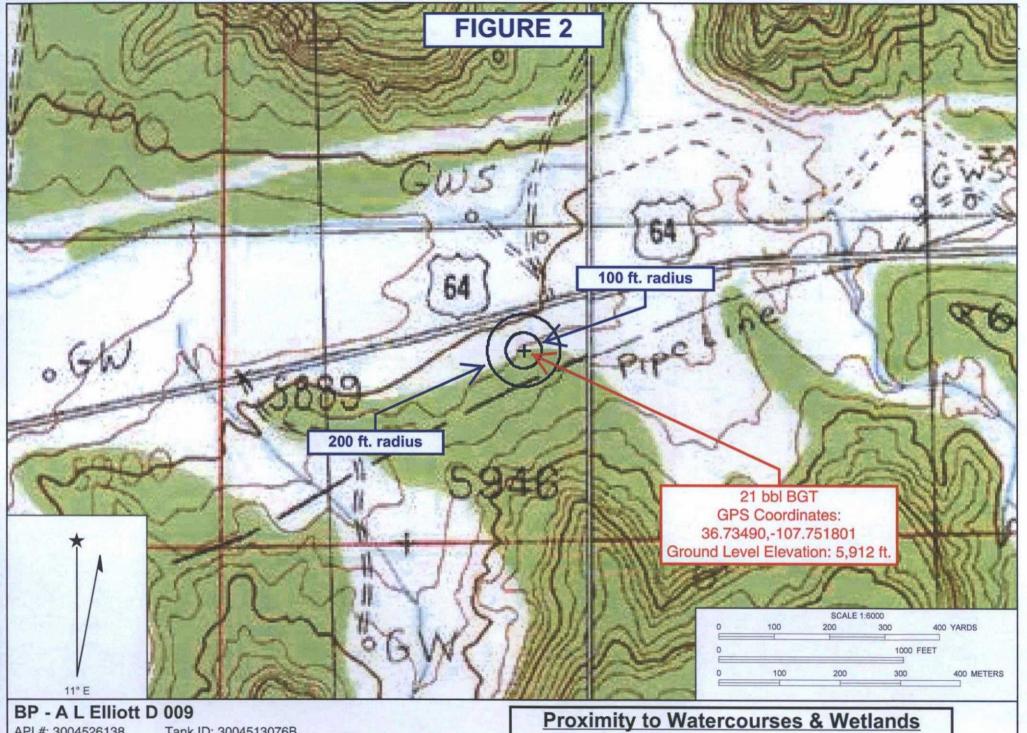
The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, 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 Nacimiento Formation of Paleocene age occurs at the surface in a broad belt at the western and southern edges of the central San Juan Basin and dips beneath the San Jose Formation in the center. The lower part of the Nacimiento Formation is composed of interbedded black, carbonaceous mudstones and white coarse-grained sandstones. The upper part is comprised of mudstone and sandstone. It is generally slope-forming, even within the sandstone units. Thickness of the Nacimiento ranges from 418 to 2,232 feet. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1,000 feet deep in this section of the basin. Wells within these bodies flow from 16 to 100 gallons per minute (gpm), and transmissivities are expected to be 100 ft/d (Stone et al, 1983). Groundwater within these aquifers flows toward the San Juan River.

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





Tank ID: 3004513076B API #: 3004526138 Unit letter N, Secton 11, Township 29.0N, Range 09W, P.M. NM 23

per Subparagraph (a), Paragraph (8), Subsection A, 19.15.17.10 NMAC



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

No wells found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000 Radius: 60.96



New Mexico Office of the State Engineer Wells Without Well Log Information

Radius: 60.96

No wells found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000



New Mexico Office of the State Engineer Point of Diversion with Meter Attached

No PODs found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000 Radius: 60.96



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

No wells found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000 Radius: 1609.3



New Mexico Office of the State Engineer Wells Without Well Log Information

No wells found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000 Radius: 1609.3



New Mexico Office of the State Engineer Point of Diversion with Meter Attached

No PODs found.

Basin/County Search:

Basin: San Juan

UTMNAD83 Radius Search (in meters):

Easting (X): 254281.29 Northing (Y): 4069000

Radius: 1609.3

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

- 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.
- Within 60 days of cessation of operations, 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.
- Within six months of cessation of operations, 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).

Cl		ble 1 Beneath Below-Grade Tanks	
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA 300.0	600 mg/kg
550 feet	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
	Chloride	EPA 300.0	10,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
51 feet-100 feet	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
	Chloride	EPA 300.0	20,000 mg/kg
	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
> 100 feet	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 greater

- 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.
- 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.

- 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.
- 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.
- 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.