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

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
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method 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
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.
Operator: <u>WPX Energy Production, LLC</u> OGRID #: <u>120782</u>
Address: PO Box 640/721 S Main Aztec, NM 87410
Facility or well name: <u>Rosa Unit #159A</u>
API Number: 30-039-26273 OCD Permit Number:
U/L or Qtr/Qtr N Section 19 Township 31N Range 5W County: Rio Arriba
Center of Proposed Design: Latitude <u>N36.880438</u> Longitude <u>W107.405315</u> NAD83 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Surface Owner: 🛛 Federal 🗋 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Fiberglass Tank w/Banded 30-mil HDPE Secondary Liner Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other
 <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
 5. 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

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 ^{6.} <u>Netting</u>: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) ⊠ Screen □ Netting □ Other □ Monthly inspections (If netting or screening is not physically feasible) 	
 7. 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 	
 8. <u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> □ 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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 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. 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	
 10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 		
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 doc 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 19.15.17.10 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:		

^{12.} <u>Permanent Pits Permit Application Checklist</u> : 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</i>	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 H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection 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 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	luid Management Pit	
14. 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 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 Site Reclamation 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 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 □ 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	
 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 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	Yes No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance		
Form C-144 Oil Conservation Division Page 4 of	f 6	

- 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 		
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 		
Within a 100-year floodplain. - FEMA map		
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. 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 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 19.15.17.11 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 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 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 H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - bas		
 ^{17.} 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 beli 	ief.	
Name (Print): Title:		
Signature: Date:		
Signature: Date:		
e-mail address: Telephone:		
e-mail address: Telephone:		
e-mail address: Telephone:	the closure report.	
e-mail address: Telephone:	the closure report.	

Oil Conservation Division

22.		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this close belief. I also certify that the closure complies with all applicable closure req		
Name (Print):Deborah Watson	Title:	Environmental Specialist
Signature:	Date:	January 3, 2018
e-mail address:deborah.watson@wpxenergy.com		Telephone:505-333-1880

WPX Energy Production Co., LLC San Juan Basin: New Mexico Assets Below-Grade Tank Removal Closure Report Rosa Unit #159A (API #30-039-26273) Unit Letter N, Section 19, T31N, R05W Rio Arriba County, NM

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on WPX Energy Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

Mr. Randolph Bayliss, NMOCD, approved the WPX BGT closure plan on November 15, 2017. (See Enclosed Form C-144)

Closure Notice:

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or 1 week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.

Approved Variance: If the surface owner is of public entity (i.e.: BLM) WPX Energy Production, LLC will notify by email the intent to close the BGT in place of a certified mail letter. WPX Energy Production, LLC will request a read receipt of the email which will be equal and/ or equivalent notification as certified mail.

WPX notified BLM-FFO, prior to BGT closure. The notification email is attached.

- 2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name (WPX)
 - b. Well Name and API Number
 - c. Location (USTR)

WPX sent notification to the District III Office via email on November 15, 2017. The notification is attached. The District III Office was advised of time and date of closure. Mr. Cory Smith, NMOCD, was in attendance during BGT closure sampling on November 20, 2017.

Closure Method:

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed at an NMOCD approved facility depending on the proximity of the BGT site. Facilities may include: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit SWD #2 (Order: SWD-1236-0, API: 30-039-30812), Jillson Fed. SWD #001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005). Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011) or Industrial Ecosystems Inc (Permit Number NM-01-0010B).

Liquids were removed prior to closure of the BGT.

4. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC.

Disposal will be at a licensed disposal facility, such as San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

The BGT and liner were disposed of in a division-approved manner.

5. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.

All associated equipment was removed from the location.

- 6. Following removal of the tank and any liner material, WPX will test the soils beneath the BGT as follows:
 - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - b.

A five-point composite sample (BGT-1) was collected from beneath the BGT following BGT removal on November 20, 2017. No obvious stained soils were observed beneath the BGT.

c. The laboratory sample shall be analyzed for the constituents listed in Table 1. Results will be reported to the Division.

The sample was submitted to Hall Environmental Analysis Laboratory, Albuquerque, NM, for analysis of benzene, BTEX, TPH, and chlorides. The analytical laboratory report is attached.

Components	Testing Methods ⁽¹⁾	Closure Limits ⁽²⁾ (mg/kg)	Results (mg/kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2	<0.025
BTEX	EPA SW-846 Method 8021B or 8260B	50	<0.225
Total TPH	EPA SW-846 Method 418.1	100	<20
Chlorides	EPA 300.0	250	41

Table 1: Closure Criteria for BGTs

⁽¹⁾ Or other test methods approved by the division

⁽²⁾ Numerical limits or natural background level, whichever is greater (19.15.17.13 NMAC)

7. If the Division and/or WPX determine there is a release, WPX will comply with WPX will comply with 19.15.17.13.C.3b.

Sampling results indicate no release occurred from the BGT.

8. Upon completion of the tank removal, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and prevent ponding.

The BGT location was backfilled with clean soil and compacted during following BGT removal. The BGT location will be reclaimed when it is no longer needed for production operations.

Below-Grade Tank Removal Plan/Closure Report WPX Energy Production, LLC

9. For those portions of the former BGT area no longer required for production activities, WPX will seed the disturbed areas the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. WPX will notify the Division when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- a. Vegetative cover reflects a life form ratio of +/- 50% of pre-disturbance levels
- b. Total percent plant cover of at least 70% of pre-disturbance levels
- (Excluding noxious weeds)
- OR
 - *c*. Pursuant to 19.15.17.13.H.5d WPX will comply with obligations imposed by other applicable federal or tribal agencies in which their re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

The BGT location was backfilled with clean soil and compacted during following BGT removal. The BGT location will be reclaimed when it is no longer needed for production operations.

10. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The BGT location was backfilled with clean soil and compacted during following BGT removal. The BGT location will be reclaimed when it is no longer needed for production operations.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. (**Operator Closure Certification has been completed**.) The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation

Attachments:

C-144 Closure Approval Surface Owner Notification (email) NMOCD Notification (email) Laboratory Analytical Report (#1711A97) Photograph log

*District IState of New MexicoForm C1625 N. French Dr., Hobbs, NM 88240Energy Minerals and Natural ResourcesJuly 21,District IIDepartmentDepartment1301 W. Grand Avenue, Artesia, NM 88210DepartmentFor temporary pits, closed-loop systems, a below-grade tanks, submit to the appropriat NMOCD District Office.1000 Rio Brazos Road, Aztec, NM 87410District IV1220 South St. Francis Dr.1220 S. St. Francis Dr., Santa Fe, NM 8750523111 00Santa Fe, NM 87505District Office.	, 2008 and ite
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 request 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 ordin 1.	lances.
Operator: WILLIAMS PRODUCTION COMPANY, LLC OGRID #: 120782 Address: PO Box 640 Aztec, NM 87410 Facility or well name: ROSA UNIT #159A API Number: 3003926273 Section 19N Township 31N Range 05W County RIO ARRIBA Latitude: 36.88044 Longitude 107.40503 NAD: 1983 Surface Owner: FEDERAL	
2. Pit: 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	
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 intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other	of
Eelow-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: PRODUCED WATER Tank Construction material: FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other 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 approva 	al.

Oil Conservation Division

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

. 6.

8

10

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 19.15.3.103 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.

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 accept	stable source	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro	priate 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.	Yes No	

 NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells 	
 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.	Yes No

FEMA map -

Oil Conservation Division

^{16.} <u>'Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</u> : (19.15.17.13.) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) more than two	
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser Yes (If yes, please provide the information below) No	vice 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 1 of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С	
^{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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be	
 Ground water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database 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 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🛛 No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No	
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🛛 No	
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🛛 No	
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🛛 No	
Within a 100-year floodplain. - FEMA map	🗌 Yes 🛛 No	
 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 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Construction/Design Plan (if applicable) - based upon the appropriate requirements of Subsection F 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 		

Commutation sampling Plan (in appreciate) - based upon the appropriate requirements of Subsection P 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 G of 19.15.17.13 NMAC

Oil Conservation Invisi-

11. *Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 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:	2
 12. <u>Closed-loop Systems Permit Application Attachment Checklist</u>: 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> 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 	с
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	
above 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 Huisance 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 19.15.17.13 NMAC	
<u>Proposed Closure</u> : 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.	

4

Oil Conservation Divisio:

 <u>Operator Application Certification</u>: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. 	
Name (Print): HOLLY C. PERKINS Title: EH&S SPECIALIST Signature: Value C. Perkins Date: 2-12-2009	
e-mail address: <u>holly.perkins@williams.com</u> Telephone: <u>505-634-4209</u>	
20. <u>OCD Approval:</u> Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 15Nov17	
Title: Hydrologist OCD Permit Number: na	
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 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 the section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date:	
22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	only)
^{23.} <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</u> Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if mot two facilities were utilized.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	_
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No	
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	
24.	
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a c mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	heck
 Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) 	
Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (required for on-site closure)	
Disposal Facility Name and Permit Number	
 Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude Longitude NAD: 1927 1983	
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge are belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	d
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	

Construction As has Classified Piles

Williams Production Co., LLC San Juan Basin: New Mexico Assets Below-Grade Tank Removal Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

Closure Conditions and Timing:

Pursuant to 19.15.17.13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be schedule as specified in 19.15.17.12 (A)(5) NMAC.
- WPX chooses to take the BGT out-of-service due to operational needs. Closure
 under these conditions will be closed within 60 days of cessation of the BGT's
 operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19.15.17.11.1(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

General Plan Requirements:

- 1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current surface owner of record. The surface owner of record will be notified of the intent to closure the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.
- 2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name (WPX)
 - b. Well Name and API Number
 - c. Location (USTR)
- 3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank, ...). The well will be temporarily shutin until the rerouting is completed.
- 4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit #94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD #001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).
- 5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).
- 6. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as

solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D of 19.15.9.712 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

- 7. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.
- 8. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(E)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Commenter I		C C DEC LE C C C C C C C C C C C C C C C C C			
Benzene	EPA SW-846 Method 8021B or 8260B	0.2			
BTEX	EPA SW-846 Method 8021B or 8260B	50			
TPH	EPA SW-846 Method 418.1(1)	100			
Chlorides	EPA SW-846 Method 300.1(1)	250(2)			

Table 1: Closure Criteria for BGTs

⁽¹⁾ Method modified for solid waste.

⁽²⁾ If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

- 9. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.
- 10. Upon completion of the tank removal, the excavation will be backfilled with nonwaste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be recontoured to match the native grade and prevent ponding.
- 11. For those portions of the former plt area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. Note: If a surface owner agreement requires reseeding or other surface restoration that do not meet the revegetation requirements of 19.15.17.13.I NMAC then WPX will submit the proposed alternative with written documentation that the surface owner agrees to the alternative, for Division approval.
- 12. For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Site Diagram with coordinates
- Available Inspection reports

- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation

From:	Watson, Debbie
To:	"Thomas, Leigh"; "Smith, Cory, EMNRD"; Fields, Vanessa, EMNRD
Cc:	Bradshaw, Rob; Watson, Debbie
Subject:	BGT Closure Notification Rosa Unit #159A
Date:	Wednesday, November 15, 2017 12:43:00 PM

WPX will be closing the BGT at the Rosa Unit #159A on Monday, November 20, 2017, see note below.

Operator: WPX Energy Production, LLC Well Name and API Number: Rosa Unit #159A (30-039-26273) Well Head Location: N36.8802948, W107.405098 BGT Location: N36.88044, W107.40503 Surface Owner: Federal Location: Unit Letter N, Section 19, Township 31N, Range 5W, Rio Arriba County, NM BGT Removal and sampling: Monday, November 20, 2017 at 9:00 AM

Note: WPX will be closing multiple BGTs on Monday, November 20, 2017. Sampling will begin at the Rosa Unit #166A at 9:00 AM. After sampling has been completed at the Rosa Unit #166A, sampling will continue in the following order: Rosa Unit #019B Rosa Unit #019 Rosa Unit #159A Rosa Unit #15

Please contact me with any questions.

Thank you,

Debbie

Deborah Watson Environmental Specialist PO Box 640 | Aztec, NM 87410 office 505.333.1880 | cell 505.386.9693 | fax 505.333.1805 <u>deborah.watson@wpxenergy.com</u>



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.

From:	Microsoft Outlook
To:	Thomas, Leigh
Subject:	Relayed: BGT Closure Notification Rosa Unit #159A
Date:	Wednesday, November 15, 2017 12:44:06 PM
Attachments:	BGT Closure Notification Rosa Unit #159A.msg

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server: Thomas, Leigh (11thomas@blm.gov) <mailto:11thomas@blm.gov> Subject: BGT Closure Notification Rosa Unit #159A

From:	Microsoft Outlook
То:	Smith, Cory, EMNRD; Fields, Vanessa, EMNRD
Subject:	Relayed: BGT Closure Notification Rosa Unit #159A
Date:	Wednesday, November 15, 2017 12:44:16 PM
Attachments:	BGT Closure Notification Rosa Unit #159A.msg

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server: Smith, Cory, EMNRD (Cory.Smith@state.nm.us) <mailto:Cory.Smith@state.nm.us> Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us) <mailto:Vanessa.Fields@state.nm.us> Subject: BGT Closure Notification Rosa Unit #159A

Form 3160-5 UNITED STATES (June 2015) DEPARTMENT OF THE INTERIOR					FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018			
BUREAU OF LAND MANAGEMENT				5. Lease Serial No. SF 078764				
						6. If Indian, Allotte	ee or Tribe Name	
	use this form for ned well. Use For							
	SUBMIT IN TRIPLICA						greement, Name and	/or No.
1. Type of Well	SOBWIT IN TRIFLICA			96 2		Rosa Unit		
□Oil We	ll 🛛 🖾 Gas Well	Other				8. Well Name and 1 Rosa Unit #159A		
2. Name of Operator						9. API Well No.		
WPX Energy Production, 3a. Address	LLC		3b. Phone No	(include area	r code)	30-039-26273	or Exploratory Area	
	IM 87410		505-333-1800		coucy	Blanco MV		
4. Location of Well (Foot 910'FSL &790'FWL, Se		vey Description)	1			11. Country or Pari Rio Arriba, NM	ish, State	
	12. CHECK THE A	PPROPRIATE B	OX(ES) TO IN	DICATE NAT	TURE OF NOTI	CE, REPORT OR O	THER DATA	
TYPE OF SUBMIS	SSION				TYPE OF ACT	ION	ъ.	
□Notice of Intent	Acidize	_	Deepen			duction (Start/Resume)	Wat	er ShutOff
	Alter C	asing	Hydraul	lic Fracturing	Rec	lamation	Well	Integrity
Subsequent Report	Casing)	Repair	New C	onstruction	Rec	omplete	Othe	BGT Closure
Final Abandonmen			Plug ar	nd Abandon		nporarily Abandon		
		to Injection	Plug Bac	ck	Wat	er Disposal		
reclamation, nave been con	npleted and the operator has	determined that the	e she is ready for	imai inspection.)			
							RECE	IVED
A 120 bbl BGT w	ill be closed on No	vember 20,	2017.				1.001 J	m 0.047
For all questions	concerns regardir	og this matte	er nlease c	ontact De	horah Wats	ion	NOV 1	3 2017
i or an questions,	concerns regular	is this matte	i, picase e	ontact De				
							Farmington Bureau of Land	
14. I hereby certify that the Deborah Watson	foregoing is true and cor	rect. Name (Prin	ted/Typed)	Title: Envirc	onmental Spe	ecialist		
WAT Signature Delh	h Watu			Date: 11/1	5/17			
		THE SPACE	FOR FEDI	ERAL OR	STATE OF	ICE USE		
Approved by	N Furt	,		Title	Supr	NRS	Date U/19	4/17
Conditions of approval, if a certify that the applicant ho which would entitle the app	lds legal or equitable title	e to those rights i			FA		•	
Title 18 U.S.C Section 1001 any false, fictitious or fraud						lly to make to any de	epartment or agency of	of the United States
(Instructions on page 2	2)							
			c	OPERA	TOR			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 01, 2017 Debbie Watson WPX Energy 721 S Main Ave Aztec, NM 87410 TEL: (505) 333-1880 FAX

OrderNo.: 1711A97

Dear Debbie Watson:

RE: Rosa Unit #159A

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/21/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1711A97

Date Reported: 12/1/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy			Client Sampl	e ID: BC	GT-1	
Project: Rosa Unit #159A			Collection 1	Date: 11/	/20/2017 11:17:00 A	Μ
Lab ID: 1711A97-001	Matrix:	Matrix: SOIL		Received Date: 11/21/2017 7:10:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batcl
EPA METHOD 418.1: TPH					Analy	st: MAB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	11/29/2017 11:00:00	AM 3514
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	41	30	mg/Kg	20	11/29/2017 11:59:04	PM 3522
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/28/2017 7:10:35 P	M 3514
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/28/2017 7:10:35 P	M 3514
Surr: DNOP	93.8	70-130	%Rec	1	11/28/2017 7:10:35 P	M 3514
EPA METHOD 8015D: GASOLINE RAM	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/27/2017 1:25:12 P	M 3513
Surr: BFB	94.8	15-316	%Rec	1	11/27/2017 1:25:12 P	M 3513
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	11/27/2017 1:25:12 P	M 3513
Toluene	ND	0.050	mg/Kg	1	11/27/2017 1:25:12 P	M 3513
Ethylbenzene	ND	0.050	mg/Kg	1	11/27/2017 1:25:12 P	M 3513
Xylenes, Total	ND	0.10	mg/Kg	1	11/27/2017 1:25:12 P	M 3513
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	11/27/2017 1:25:12 P	M 3513

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: 1711A97 01-Dec-17

%RPD

RPDLimit

Qual

Hall Environmenta	l Analysis	Laboratory,	Inc.
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Result

14

PQL

1.5

Client: WPX Energy Project: Rosa Unit #159

Project:	Rosa U	nit #159A						
Sample ID	MB-35227	SampType: mblk	Tes	stCode: EPA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 35227		RunNo: 47395				
Prep Date:	11/29/2017	Analysis Date: 11/29	/2017	SeqNo: 1513735	Units: mg/Kg			
Analyte		Result PQL SF	PK value SPK Ref Val	%REC LowLimit	HighLimit %	RPD	RPDLimit	Qual
Chloride		ND 1.5						
Sample ID	LCS-35227	SampType: Ics	Tes	tCode: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 35227		RunNo: 47395				
Prep Date:	11/29/2017	Analysis Date: 11/29	/2017	SeqNo: 1513736	Units: mg/Kg			

SPK value SPK Ref Val %REC

0

15.00

LowLimit

90

94.9

HighLimit

110

Qualifiers:

Analyte

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 2 of 6
- ing Detection Limit

QC SUMMARY REPORT

WO#: 1711A97 01-Dec-17

Hall Environmenta	l Analysis	Laborate	ory, Inc.
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Client:WPX EnergyProject:Rosa Unit #159A

Sample ID MB-35148	SampType: MBLK	TestCode: EPA Method	418.1: TPH			
Client ID: PBS	Batch ID: 35148	RunNo: 47392				
Prep Date: 11/27/2017	Analysis Date: 11/29/2017	SeqNo: 1512347	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Petroleum Hydrocarbons, TR	ND 20					
Sample ID LCS-35148	SampType: LCS	418.1: TPH				
Client ID: LCSS	Batch ID: 35148	RunNo: 47392				
Prep Date: 11/27/2017	Analysis Date: 11/29/2017	SeqNo: 1512348	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Petroleum Hydrocarbons, TR	94 20 100.0	0 94.5 80.5	126			
Sample ID LCSD-35148	SampType: LCSD	TestCode: EPA Method	418.1: TPH			
Client ID: LCSS02	Batch ID: 35148	RunNo: 47392				
Prep Date: 11/27/2017	Analysis Date: 11/29/2017	SeqNo: 1512349	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Petroleum Hydrocarbons, TR	91 20 100.0	0 91.5 80.5	126 3.24	20		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

WO#: 1711A97

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01-Dec-17

Hall Environmental	Analysis	Laboratory, Inc.
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Client: WPX Energy Rosa Unit #159A **Project:**

Sample ID LCS-35149	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 35149			RunNo: 47353						
Prep Date: 11/27/2017	Analysis Date: 11/28/2017			SeqNo: 1511452			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	91.0	73.2	114			
Surr: DNOP	4.4		5.000		88.5	70	130			
Sample ID MB-35149	SampT	ype: ME	BLK	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 35149 RunNo: 47353									
Prep Date: 11/27/2017	Analysis Date: 11/28/2017 SeqNo: 1511453					Units: mg/K	g			
							9	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result ND	PQL 10	SPK value			LowLimit	0	%RPD	RPDLimit	Qual
			SPK value			LowLimit	0	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Ρ Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:

WPX Energy Rosa Unit #159A

Sample ID MB-35130	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 35130			RunNo: 47349						
Prep Date: 11/22/2017	Analysis Date: 11/27/2017			SeqNo: 1510598			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	316			
Sample ID LCS-35130		ype: LC		Tes			8015D: Gaso	line Rang	e	
Sample ID LCS-35130 Client ID: LCSS	SampT	ype: LC	S			PA Method	8015D: Gaso	oline Rang	e	
	SampT	n ID: 35	:S 130	R	tCode: El	PA Method 7349	8015D: Gaso Units: mg/K		e	
Client ID: LCSS	SampT Batch	n ID: 35	S 130 1/27/2017	R	tCode: El	PA Method 7349			e RPDLimit	Qual
Client ID: LCSS Prep Date: 11/22/2017	SampT Batch Analysis D	n ID: 35 ate: 11	S 130 1/27/2017	F	tCode: El RunNo: 4 SeqNo: 1	PA Method 7349 510600	Units: mg/K	(g		Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

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WO#:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: WP Project: Ros

WPX Energy Rosa Unit #159A

Sample ID MB-35130	SampType: MBLK			Tes	tCode: E	PA Method				
Client ID: PBS	Batch ID: 35130			RunNo: 47349						
Prep Date: 11/22/2017	Analysis Date: 11/27/2017			SeqNo: 1510626			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			
Sample ID LCS-35130	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 35	130	F	RunNo: 4	7349				
Prep Date: 11/22/2017	Analysis D	ate: 11	/27/2017	S	SeqNo: 1	510627	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	77.3	128			
Toluene	0.95	0.050	1.000	0	95.4	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80.7	127			
Kylenes, Total	2.9	0.10	3.000	0	95.2	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
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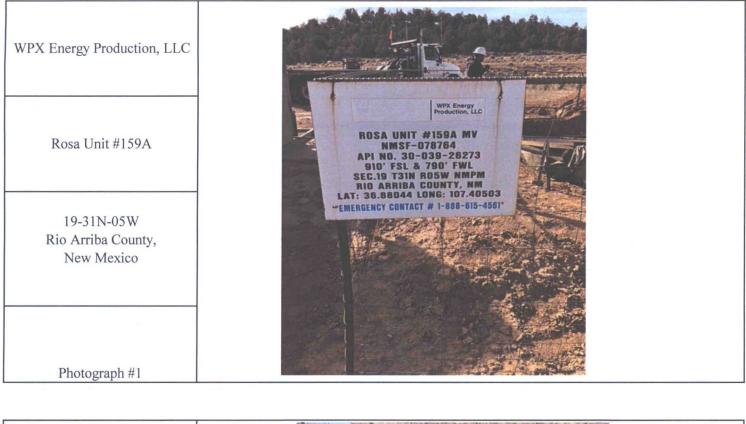
WO#: 1711A97 01-Dec-17

HALL ENVIRONMENT ANALYSIS LABORATORY	AL	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 iquerqu FAX: 5	Hawki e, NM 05-345	ins NE 87109 5-4107	Sam	ple Log-In C	heck List
Client Name: WPX ENE	RGY	Work Order Number:	1711	A97			RcptNo:	1
					4	No		
Received By: Anne Tho		11/21/2017 7:10:00 AM			am	Arm.	-	
Completed By: Anne Tho	ome	11/21/2017 1:16:02 PM	1		am	, Hom	-	
Reviewed By: Mg	-	11/22/17						
Chain of Custody								
1. Custody seals intact on s	sample bottles?		Yes		N	•	Not Present	
2, Is Chain of Custody com	plete?		Yes	\checkmark	N	•	Not Present	
3. How was the sample deli	ivered?							
Log In								
4. Was an attempt made to	cool the samples?		Yes	✓	N	•	NA 🗌	
5. Were all samples receive	ad at a temperature	of >0° C to 6.0°C	Yes		No		NA 🗌	
6. Sample(s) in proper cont	tainer(s)?		Yes	✓	Ν	•		
7. Sufficient sample volume	for indicated test(s)?	Yes		N	•		
8. Are samples (except VOA	A and ONG) proper	ly preserved?	Yes		No	b		
9. Was preservative added	to bottles?		Yes		No		NA 🗌	
10.VOA vials have zero head	dspace?	2	Yes		No		No VOA Vials 🗹	
11. Were any sample contain	ners received broke	n?	Yes		N	• 🔽	# of preserved	
12. Does paperwork match b	ottle labels?		Yes	\checkmark	N		bottles checked for pH:	
(Note discrepancies on cl								r >12 unless noted)
13. Are matrices correctly ide		Custody?	Yes	_			Adjusted?	
14. Is it clear what analyses w 15. Were all holding times ab			Yes		No		Checked by:	
(If no, notify customer for			Yes		N		enconcer by	
Special Handling //f an								
Special Handling (if ap 16. Was client notified of all of		his order?	Yes		b.L.		NA 🗹	
			res		INC			1
Person Notified: By Whom:	Contract of the second states of	Date	1		Dhore -	Env		
Regarding:		Via:	eMa		Phone _		In Person	
Client Instructions:		สรายสารที่สุดที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที	Culture and and a	MPICHARAMICHAR				
17. Additional remarks:	P							
18. <u>Cooler Information</u>	Condition Or	al Intent Paul Ma 0	and D	ite I	Olean I	p., 1		
Cooler No Temp °C 1 1.2	Condition Se Good Yes		eal Da		Signed	ву		

Page 1 of 1

Mailing Address: 721 S Main Rosa Unit # 159 Å www.hallenvironmental.com Aztec, NM 87410 Project #: 4901 Hawkins NE - Albuquerque, NM 87109 Phone #: 505-333-1880 Project Manager: Analysis Request QA/QC Package: Deborah Watson Project Manager: Deborah Watson X Standard Level 4 (Full Validation) Sampler: RB/DLU (100 0) (1	
Aztec, NM 87410 Project #: Phone #: 505-333-1880 email or Fax#: deborah.watson@wpxenergy.com Project Manager: QA/QC Package: Deborah Watson X Standard Level 4 (Full Validation) Accreditation: Sampler: Phote Other Other Other Data Time Matrix Sample Request ID Container Preservative	
Phone #: 505-333-1880 email or Fax#: deborah.watson@wpxenergy.com Project Manager: QA/QC Package: Deborah Watson X Standard Level 4 (Full Validation) Accreditation: Sampler: RB/DW ONICE Onice Deborah Watson (1, 1, 1) NELAP Other Date Sample Request ID Container Preservative	
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Date Time Matrix Sample Request ID Container Type and # Preservative Type Date Time Matrix Sample Request ID Container Type and # Preservative Type Description Description	ž
	Air Bubbles (Y or N)
11.20.17 1117 soil BGT-1 1-4 oz glass cold OO X X X X	\uparrow
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	+
Date: Time: Relinquished by: Received by: Date Time Remarks: 1/20/17 1524 NULL MULL Received by: Date Time Remarks: Date: Time: Relinquished by: Received by: Date Time	
11/20/1/ 2010 / Mustur Walton Um 11/2/17 0710 If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	

WPX Energy Production, LLC Rosa Unit #159A BGT Closure Report Photograph Log







WPX Energy Production, LLC Rosa Unit #159A BGT Closure Report Photograph Log

