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 State of New Mexico

Pit, Below-Grade Tank, or		
Proposed Alternative Method Permit or Closure Plan Application		
Type of action: Below grade tank registration		
\square Permit of a pit or proposed alternative method \square Closure of a pit, below-grade tank, or proposed alternative method		
$\square Modification to an existing permit/or registration$		
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.		
Derator: <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 #146</u>		
API Number: 30-039-25513 OCD Permit Number:		
U/L or Qtr/Qtr <u>N</u> Section <u>28</u> Township <u>31N</u> Range <u>5W</u> County: <u>Rio Arriba</u>		
Center of Proposed Design: Latitude <u>N36.86602</u> Longitude <u>W107.37015</u> NAD83		
Surface Owner: 🛛 Federal 🔲 State 🔲 Private 🔲 Tribal Trust or Indian Allotment		
2.		
<u>Pit</u>: Subsection F, G or J of 19.15.17.11 NMAC		
Temporary: U Drilling Workover		
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no		
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other		
String-Reinforced		
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D		
3.		
Below-grade tank: Subsection I of 19.15.17.11 NMAC		
Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u>		
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: Thicknessmil 📋 HDPE 🗋 PVC 🗋 Other		
4.		
Alternative Method:		
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		

Oil Conservation Division

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

Screen 🗌 Netting 🗌 Other

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source</i> <i>material are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.		
General siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes □ No □ NA	
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
 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

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

Within a 100-year floodplain. (Does not apply to below grade tanks)

FEMA map

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.	Yes No

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes No

Yes No

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 		
 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 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:		
11. Multi Wall Fluid Management Dit Checklist, Subsection D of 10 15 17 0 NMAC		
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 	cuments are	
Previously Approved Design (attach copy of design) API Number: or Permit Number:		

Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No	
Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 300 feet of a wetland.		
	Vac 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	
 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 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	
 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	
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 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	
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.		
 ^{14.} <u>Waste Excavation and Removal Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.</i> 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 	attached to the	
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 Alternative 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	
^{13.} Proposed Closure: 19.15.17.13 NMAC		
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the		

 written confirmation of vertification from the municipality: written approval obtained from the municipality 		
Within the area complete a subsystem mine		
 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	🗌 Yes 🗌 No	
- 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 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 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 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 Ste Reclamation Plan - b		
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:		
Signatura		
Signature Date:		
e-mail address: Telephone:		
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including cosure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Ap	2018	
signature:	the closure report.	
Signature:	the closure report. complete this	

Oil Conservation Division

22. Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):Deborah Watson	Title:	Environmental Specialist
Signature:	Date:	December 28, 2017
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 #146 (API #30-039-25513) Unit Letter N, Section 28, 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 October 20, 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, prior to BGT closure. The notification email and filed sundry 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 October 20, 2017. The notification is attached. The District III Office was advised of time and date of closure. No representatives from NMOCD were in attendance during BGT closure sampling on October 25, 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.

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

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 October 25, 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 following receipt from the lab on Form C-141.

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. Form C-141 is attached.

Components	Testing Methods ⁽¹⁾	Closure Limits ⁽²⁾ (mg/kg)	Results (mg/kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2	<0.023
BTEX	EPA SW-846 Method 8021B or 8260B	50	<0.21
Total TPH	EPA SW-846 Method 418.1	100	<20
Chlorides	EPA 300.0	250	<30

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. See attached Form C-141.

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 BLM Notification (emails) NMOCD Notification (emails) Form C-141 Laboratory Analytical Report (#1710F03) Photograph log

Form C-144 State of New Mexico District I 1625 N. French Dr., Hobbs, NM 88240 July 21, 2008 **Energy Minerals and Natural Resources** District II 1301 W. Grand Avenue, Artesia, NM 88210 For temporary pits, closed-loop systems, and Department below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to District III **Oil Conservation Division** 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. the Santa Fe Environmental Bureau office and District IV District IV 1220 S. St. Francis Dr. Santa Fe. NM 87505 provide a copy to the appropriate NMOCD District Office. Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: WILLIAMS PRODUCTION COMPANY, LLC OGRID #: 120782 Aztec, NM 87410 Address: PO Box 640 ROSA UNIT #146 Facility or well name: 3003925513 API Number: OCD Permit Number: Range 05W Township 31N 28N County RIO ARRIBA Section 36.866039999999998 Longitude 107.37026 NAD: 1983 Surface Owner: FEDERAL Latitude: 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 _____ String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: DP&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____ Liner Seams: Welded Factory Other Below-grade tank: Subsection I of 19.15.17.11 NMAC 120 Volume: 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 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form (-144 WPX Closure Plan Oil Conservation Divisi Page 1 of 7

6. 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_

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.

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Stong Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes 🗋 No	
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No	
 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

Form C-144 WPX Closure Plan

Oil Conservation Division

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 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:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Bremanent 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 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 Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
^{14.} <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.

Form C-144 WPX Closure Play Oil Conservation Lavisi-

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.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.		
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:	and the second	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		
^{17.} 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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA	
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant 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	
 Is. 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 19.15.17.10 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 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 		

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Oil Conservation Divisio

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 belief.
Name (Print):
Signature: Date:
e-mail address:holly.perkins@williams.com Telephone:505-634-4209
20. <u>OCD Approval:</u> Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 200ct17
Title: Hydrologist OCD Permit Number: n.a.
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
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 more than 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 will not 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 check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: [1927] 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

Form C-144 WPX Closure Play Oil Conservation Divisi

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 Concom Anna M
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 pit 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

Watson, Debbie

From: Sent: To: Cc: Subject:	Watson, Debbie Friday, October 20, 2017 9:15 AM 'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD'; 'Thomas, Leigh'; Foley, Brand Bradshaw, Rob BGT Closure Notification-Three Locations						
Tracking:	Recipient	Delivery					
	'Smith, Cory, EMNRD'						
	'Fields, Vanessa, EMNRD'						
	'Thomas, Leigh'						
	Foley, Brandon M.						
	Bradshaw, Rob	Delivered: 10/20/2017 9:16 AM					

Good Morning,

WPX has scheduled BGT closures at the following locations for Wednesday, October 25, 2017. Sampling will begin at the Rosa Unit #15A at 9:00 am and proceed to the remaining BGTs. Please note locations are located in the same general area.

Operator: WPX Energy Production, LLC Well Name and API Number: Rosa Unit #015A (30-039-25525) Well Head Location: N36.868213, W107.3794556 BGT Location: N36.86827, W107.37985 Surface Owner: Federal Lease #:SF 078764 Location: Unit Letter J, Section 29, Township 31N, Range 5W, Rio Arriba County, NM BGT Removal and sampling: Wednesday, October 25, 2017 at 9:00 AM

Operator: WPX Energy Production, LLC Well Name and API Number: Rosa Unit #26C (30-039-27597) Well Head Location: N36.855999, W107.3770523 BGT Location: N36.86090, W107.37675 Surface Owner: State Location: Unit Letter I, Section 32, Township 31N, Range 5W, Rio Arriba County, NM BGT Removal and sampling: Wednesday, October 25, 2017 TBD

Operator: WPX Energy Production, LLC Well Name and API Number: Rosa Unit #146 (30-039-25513) Well Head Location: N36.8657608, W107.3703232 BGT Location: N36.866039, W107.37026 Surface Owner: Federal Lease #:SF 078769 Location: Unit Letter N, Section 28, Township 31N, Range 5W, Rio Arriba County, NM BGT Removal and sampling: Wednesday, October 25, 2017 TBD

Please contact me with any questions. Thank you.

Have a great weekend,

Debbie

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



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.

Watson, Debbie

From: To: Sent: Subject: Microsoft Outlook Smith, Cory, EMNRD; Fields, Vanessa, EMNRD Friday, October 20, 2017 9:16 AM Relayed: BGT Closure Notification-Three Locations

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)

Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)

Subject: BGT Closure Notification-Three Locations

Watson, Debbie

From: To: Sent: Subject: Microsoft Outlook Thomas, Leigh Friday, October 20, 2017 9:16 AM Relayed: BGT Closure Notification-Three Locations

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

,

Thomas, Leigh (l1thomas@blm.gov)

Subject: BGT Closure Notification-Three Locations

Form 3160-5	UNITED STAT	ES	RECEIVE	D		FORM APPROVED OMB No. 1004-0137
(0000 2010)	BUREAU OF LAND MAN	INTERIOR	061.25.30	197	5. Lease Serial No.	Explice. Jailiary 51, 2010
SUND	RY NOTICES AND REP		VGI GU GU	8 3	SF 078769	a ar Triha Nama
Do not use t abandoned w	his form for proposals ell. Use Form 3160-3 (A	to drill or to APD) for suc	o re-enter an ch proposals	Office	o. n mulan, Anoue	
SUBM	T IN TRIPLICATE - Other instr	uctions on page	e 2	agomone	7. If Unit of CA/Ag Rosa Unit	greement, Name and/or No.
	Gas Well Other				8. Well Name and M	No.
2. Name of Operator WPX Energy Production, LLC					Rosa Unit #146 9. API Well No. 30-039-25513	
3a. AddressPO Box 640Aztec, NM 8741	0	3b. Phone No. 505-333-1800	(include area code,)	10. Field and Pool of Blanco MV	or Exploratory Area
4. Location of Well (Footage, Sec. 895'FSL & 1850'FWL, Sec 28,	, T.,R.,M., or Survey Description) I31N, R05W				11. Country or Paris Rio Arriba, NM	sh, State
12.	CHECK THE APPROPRIATE B	OX(ES) TO IND	ICATE NATURE	OF NOTIC	E, REPORT OR O	THER DATA
TYPE OF SUBMISSION			TYPE	E OF ACTIO	ON	
□Notice of Intent	Acidize	Deepen		Produ	ction (Start/Resume)	□ Water ShutOff
	Alter Casing		Fracturing	Reclar	mation	Well Integrity
Subsequent Report	Casing Repair	New Con	nstruction	Recon	nplete	⊠Other <u>BGT Closure</u>
Final Abandonment Notice	Change Plans	□ Plug and	Abandon	Temp	orarily Abandon	
	Convert to Injection	Plug Back		L water	Disposal	
or provide the Bond No. on file with completion or recompletion in a new reclamation, have been completed an	BLM/BIA. Required subsequent repo interval, a Form 3160-4 must be filed ad the operator has determined that the	rts must be filed w once testing has b site is ready for fi	ithin 30 days followin een completed. Final nal inspection.)	ng completio: Abandonme:	n of the involved oper nt Notices must be file	ations. If the operation results in a multiple d only after all requirements, including
A 120 bbl BGT will be c	losed on October 25, 20	17.				N
For all questions/conce	rns regarding this matte	er, please co	ntact Debora	h Watso	n.	8
14. I hereby certify that the foregoin Deborah Watson	g is true and correct. Name (Print	ted/Typed) T	ïtle: Environme	ntal Spec	ialist	
WT Signature Debuh 7	Vatu	1	Date: 10/20/17			· · · ·
	THE SPACE	FOR FEDE	RAL OR STA	TE OFIC	CEUSE	
Approved by	na		Title C	181	NRS	Date 10/23/12
Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	ttached. Approval of this notice d or equitable title to those rights in conduct operations thereon.	oes not warrant on the subject leas	or Se Office	500		Dato (CD) (F
Title 18 U.S.C Section 1001 and Titl any false, fictitious or fraudulent sta	e 43 U.S.C Section 1212, make it tements or representations as to a	a crime for any p ny matter within	berson knowingly a its jurisdiction.	and willfully	y to make to any de	partment or agency of the United States
(Instructions on page 2)						

OPERATOR

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State of New Mexico Energy Minerals and Natural Resources

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

Rio Arriba

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

	-			Sal	11a re, $11v1$ $8/3$	05					
			Rele	ase Notifica	ation and Co	orrective A	ction				
					OPERA	ΓOR	🖂 Initi	al Report	Final Report		
Name of Company WPX Energy Production, LLC					Contact Del	oorah Watson					
Address PO Box 640/ 721 S Main Telephone No.505-333-1880						30					
Facility Nar	ne Rosa U	nit #146			Facility Typ	Facility Type Well Pad					
Surface Owner Federal Mineral Owner				wner Federal	er Federal API No.30-039-25513						
				LOCA	FION OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line		County		

31N 5W 998 South 1517 West

Latitude N36.86602 Longitude W107.37015 NAD83

NATURE OF RELEASE

Type of Release BGT Closure/No Release	Volume of Release No Release Volume Recovered No Release						
Source of Release No Release	Date and Hour of Occurrence No Release	Date and Hour of Discovery No Release					
Was Immediate Notice Given?	If YES, To Whom?						
🗌 Yes 🔲 No 🖾 Not	N/A						
Required							
By Whom?	Date and Hour N/A						
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourt	se.					
🗌 Yes 🖾 No							
If a Watercourse was Impacted, Describe Fully.*							
N/A							
Describe Cause of Problem and Remedial Action Taken.*							
A five-point composite sample (BGT-1) was collected beneath the B	GT on October 25, 2017. Laboratory analy	tical results for BGT-1 were reported					
below BG1 closure standards. The laboratory analytical report (Hall	Order #1/10E5/) is attached.						
Describe Area Affected and Cleanup Action Taken.*							
1							
No further action is recommended.							
I hereby certify that the information given above is true and complete	to the best of my knowledge and understan	nd that pursuant to NMOCD rules and					
regulations all operators are required to report and/or file certain relea	ase notifications and perform corrective act	ions for releases which may endanger					
public health of the environment. The acceptance of a C-141 report to	by the NMOCD marked as "Final Report" of	toes not relieve the operator of hability					
should then operations have raned to adequately investigate and remo	ort does not relieve the operator of response	ibility for compliance with any other					
federal state or local laws and/or regulations	of does not reneve the operator of respons.	ionity for compliance with any other					
	OIL CONSERVATION DIVISION						
Norah With							
Signature							
Signature.	Approved by Environmental Specialist:						
Printed Name: Deborah Watson							
Timed Funite Debotait Walson							
Title: Environmental Specialist	Approval Date:	Expiration Date:					
1							
E-mail Address: deborah.watson@wpxenergy.com	Conditions of Approval:	Attached					
		Attacheu					
Date: 12/28/17 Phone: 505-333-880							

* Attach Additional Sheets If Necessary

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 07, 2017

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

RE: Rosa Unit 146

OrderNo.: 1710E57

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/27/2017 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1710E57

Date Reported: 11/7/2017

10/30/2017 7:59:06 PM 34690

10/29/2017 12:49:09 AM 34671

Analyst: NSB

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BGT-1 Rosa Unit 146 Collection Date: 10/25/2017 2:11:00 PM **Project:** 1710E57-001 Matrix: SOIL Received Date: 10/27/2017 8:00:00 AM Lab ID: Result PQL Qual Units **DF** Date Analyzed Batch Analyses EPA METHOD 418.1: TPH Analyst: MAB Petroleum Hydrocarbons, TR ND 20 mg/Kg 11/3/2017 34763 1 EPA METHOD 300.0: ANIONS Analyst: MRA Chloride ND 30 mg/Kg 20 11/4/2017 12:51:49 AM 34812 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM 10/30/2017 7:59:06 PM 34690 ND **Diesel Range Organics (DRO)** 9.7 mg/Kg 1 Motor Oil Range Organics (MRO) ND 10/30/2017 7:59:06 PM 34690 49 mg/Kg 1

70-130

4.7

15-316

0.023

0.047

0.047

0.093

80-120

87.3

ND

86.5

ND

ND

ND

ND

97.9

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

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

Qualifiers:	*	Value
Quanners:		valu

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

- 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

exceeds Maximum Contaminant Level.

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: WPX Energy **Project:**

Rosa Unit 146

Sample ID MB-34812	SampType: mblk	TestCode: EPA Metho	d 300.0: Anions	
Client ID: PBS	Batch ID: 34812	RunNo: 46865		
Prep Date: 11/3/2017	Analysis Date: 11/3/2017	SeqNo: 1496174	Units: mg/Kg	
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-34812	SampType: Ics	TestCode: EPA Method	d 300.0: Anlons	
Sample ID LCS-34812 Client ID: LCSS	SampType: Ics Batch ID: 34812	TestCode: EPA Methor RunNo: 46865	d 300.0: Anlons	
Sample ID LCS-34812 Client ID: LCSS Prep Date: 11/3/2017	SampType: Ics Batch ID: 34812 Analysis Date: 11/3/2017	TestCode: EPA Metho RunNo: 46865 SeqNo: 1496175	d 300.0: Anions Units: mg/Kg	
Sample ID LCS-34812 Client ID: LCSS Prep Date: 11/3/2017 Analyte	SampType: Ics Batch ID: 34812 Analysis Date: 11/3/2017 Result PQL SPK v	TestCode: EPA Methor RunNo: 46865 SeqNo: 1496175 alue SPK Ref Val %REC LowLimit	d 300.0: Anlons Units: mg/Kg HighLimit %RPD	RPDLimit Qual

Qualifiers:

- ٠ Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- 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
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1710E57 07-Nov-17

- Page 2 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project: Rosa Unit 146

WPX Energy

Sample ID ME	B-34763	SampT	ype: M	BLK	Tes	tCode: E	PA Method	418.1: TPH			
Client ID: PE	BS	Batch	n ID: 34	763	F	RunNo: 4	6854				
Prep Date: 1	1/2/2017	Analysis D	ate: 1	1/3/2017	5	SeqNo: 1	494254	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydroca	arbons, TR	ND	20								
Sample ID LC	S-34763	SampT	ype: LC	s	Tes	tCode: E	PA Method	418.1: TPH		<u> </u>	
Client ID: LC	ss	Batch	n ID: 34	763	F	RunNo: 4	6854				
Prep Date: 1	1/2/2017	Analysis D	ate: 1	1/3/2017	5	SeqNo: 1	494255	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydroca	irbons, TR	90	20	100.0	0	89.6	80.5	126			
Sample ID LC	SD-34763	SampT	ype: LC	SD	Tes	tCode: E	PA Method	418.1: TPH			
Client ID: LC	SS02	Batch	n ID: 34	763	F	RunNo: 4	6854				
Prep Date: 1	1/2/2017	Analysis D	ate: 1	1/3/2017	5	SeqNo: 1	494256	Units: mg/M	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydroca	irbons, TR	91	20	100.0	0	90.6	80.5	126	1 14	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level. ٠
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Ρ Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1710E57 07-Nov-17

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project: Rosa Unit 146

WPX Energy

Sample ID MB-34690	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch	Batch ID: 34690 RunNo: 46729								
Prep Date: 10/28/2017	Analysis Da	te: 10	/30/2017	SeqNo: 1489218			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.8	70	130			
Sample ID LCS-34690	SampTy	pe: LC	s	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 346	690	R	RunNo: 4	6729				
Prep Date: 10/28/2017	Analysis Da	te: 10	/30/2017	S	SeqNo: 1	489220	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.3	73.2	114			
Surr: DNOP	4.5		5.000		90.7	70	130			

Qualifiers: *

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1710E57 07-Nov-17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710E57

07-Nov-17

Client:	WPX En	ergy								
Project:	Rosa Un	it 146								
Sample ID	MB-34671	SampType:	MBLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID:	Batch ID: 34671 RunNo: 46715							
Prep Date:	10/27/2017	Analysis Date:	10/28/2017	5	SeqNo: 14	488464	Units: mg/K	g		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND 5	.0							
Surr: BFB		830	1000		83.2	15	316			
Sample ID	LCS-34671	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSS	Batch ID:	34671	RunNo: 46715						
Prep Date:	10/27/2017	Analysis Date:	10/28/2017	5	SeqNo: 14	488465	Units: mg/Kg	g		
Analyte		Result PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25 5	.0 25.00	0	100	75.9	131			
Surr: BFB		900	1000		89.7	15	316			
Sample ID	MB-34656	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch ID:	34656	F	unNo: 46	6720				
Prep Date:	10/26/2017	Analysis Date:	10/29/2017	S	eqNo: 14	488743	Units: %Rec			
Analyte		Result PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		830	1000		83.3	15	316			
Sample ID	LCS-34656	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch ID:	34656	F	unNo: 46	6720				
Prep Date:	10/26/2017	Analysis Date:	10/29/2017	S	eqNo: 14	488744	Units: %Rec			
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		930	1000		93.4	15	316			

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

Hall Environmental Analysis Laboratory, Inc.

Client: Project:

WPX Energy Rosa Unit 146

Sample ID MB-34671	SampType: MBLK TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 34671	RunNo: 46715					
Prep Date: 10/27/2017	Analysis Date: 10/28/2017	SeqNo: 1488504	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	0.95 1.000	95.5 80	120				
Sample ID LCS-34671 SampType: LCS TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 34671	RunNo: 46715					
Prep Date: 10/27/2017	Analysis Date: 10/28/2017	SeqNo: 1488505	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Benzene	0.98 0.025 1.000	0 98.4 77.3	128				
Toluene	0.98 0.050 1.000	0 97.5 79.2	125				
Ethylbenzene	0.96 0.050 1.000	0 95.7 80.7	127				
Xylenes, Total	3.0 0.10 3.000	0 98.6 81.6	129				
Surr: 4-Bromofluorobenzene	0.93 1.000	93.1 80	120				
Sample ID MB-34656	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles				
Client ID: PBS	Batch ID: 34656	RunNo: 46720					
Prep Date: 10/26/2017	Analysis Date: 10/29/2017	SeqNo: 1488778	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: 4-Bromofluorobenzene	0.95 1.000	95.2 80	120				
Sample ID LCS-34656	SampType: LCS	TestCode: EPA Method	8021B: Volatiles				
Client ID: LCSS	Batch ID: 34656	RunNo: 46720					
Prep Date: 10/26/2017	Analysis Date: 10/29/2017	SeqNo: 1488779	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: 4-Bromofluorobenzene	0.97 1.000	97.1 80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

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
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1710E57

07-Nov-17

HALL ENVIRO ANALYS LABORA	NMENTAL SIS ATORY	Hall Environmental A Albuq TEL: 505-345-3975 H Website: www.hall	s Labord Hawkin e, NM 8 05-345- nmental	atory 1s NE 17109 4107 Lcom	Sample Log-In Check List			
Client Name: W	VPX ENERGY	Work Order Number:	1710	E57			RcptNo:	1
Received By:	Sophia Campuzano	10/27/2017 8:00:00 AM			South	ia Caga-		
Completed By: Reviewed By:	Erin Melendrez	10/27/2017 9:40:54 AM /0 27 17			1L	NA	5	
Chain of Custo	dy							
1. Custody seals i	intact on sample bottles?		Yes		N	io 🗌	Not Present 🗹	
2. Is Chain of Cus	stody complete?		Yes	\checkmark	N	lo 🗌	Not Present	
3. How was the sa	ample delivered?		Cour	ier				
Log In								
4. Was an attemp	ot made to cool the samples?		Yes	\checkmark	N	lo 🗌	NA 🗌	
5. Were all sample	les received at a temperature	of >0° C to 6.0°C	Yes	\checkmark	N	•	NA	
6. Sample(s) in pr	roper container(s)?		Yes	\checkmark	N	lo 🗌		
7. Sufficient samp	le volume for indicated test(s)?	Yes		N	•		
8. Are samples (ex	xcept VOA and ONG) proper	y preserved?	Yes	\checkmark	N	o 🗌		
9. Was preservativ	ve added to bottles?		Yes		N	• 🗹	NA 🗌	
10.VOA vials have	zero headspace?		Yes		N	•	No VOA Vials 🗹	
11. Were any samp	ple containers received broke	n?	Yes		N	lo 🔽		
12.Does paperwork	k match bottle labels?		Yes	\checkmark	N	•	# of preserved bottles checked for pH:	
(Note discrepan	cies on chain of custody)			_		_	(<2 0	r >12 unless noted)
13. Are matrices co	prrectly identified on Chain of	Custody?	Yes	\checkmark	N	•	Adjusted?	
14. Is it clear what a	analyses were requested?		Yes		N	• 🗆		
15. Were all holding (If no, notify cus	g times able to be met? stomer for authorization.)		Yes		N	0	Checked by:	
Special Handlin	g (if applicable)							
16. Was client notifi	ied of all discrepancies with t	his order?	Yes		N	•	NA	
Person No	otified:	Date:		and the second secon	content and Midul	AN A ROOM AND		
By Whom		Via:] eMa	II 🗌 I	Phone [Fax	In Person	
Regarding	J:	an a					and anone of the product of the second s	
Client Inst	tructions:							
17. Additional rema	arks:							-
18. <u>Cooler Informa</u> Cooler No	ation Temp °C Condition Se 3.1 Good Not	al Intact Seal No Se Present	eal Da	te	Signed	i By		
Page 1 of 1								

1000

Client: Mailing Phone a	Address	of-Cu Eneral 721 Azte 333	s Main c, NM 880	Turn-Around Time: AStandard □ Rush Project Name: RoSa Uw+ # 14b Project #:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
email or Fax#: defaorah , watson@woxteneny.com QA/QC Package: AStandard □ Level 4 (Full Validation) Accreditation □ NELAP □ Other □ EDD (Type) Date Time Matrix Sample Request ID				Project Mana D Wws Sampler: D On tes Sample Ten Container Type and #	ger: tó n Wał56m Xares erature Preservative Type	□.No 110.2100) = 3.J HEAL Nor	EX + MIDE - TIME (8021)	EX + MTBE + TPH (Gas only)	H 8015B (GRO) DRO (MRO)	H (Method 418.1)	3 (Method 504.1)	H's (8310 or 8270 SIMS)	RA 8 Metals	ons (+ 6), NO3, NO2, PO4, SO4)	1 Pesticides / 8082 PCB's	0B (VOA)	0 (Semi-VOA)		•		Bubbles (Y or N)
10.25.17	1411	snl	B6T-1	Hozdus	cold	1716E57 -001	THE A	BTE	ATP!	X	EDI	PA	RCI	Anic	808	826	827				Airl
						P															
Date: 24/17 Date: 10 24/17	Time: 1540 Time: 1941	Relinquish Relinquish	ed by: Watu ed by: wt Walt	Received by: Children Date Time North 154G Received by: Date Time Spli C 10/27/17 0800					Remarks:												

-

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 #146 BGT Closure Report Photograph Log









WPX Energy Production, LLC Rosa Unit #146 BGT Closure Report Photograph Log

WPX Energy Production, LLC	Rasa 141
Rosa Unit #146	
28-31N-05W Rio Arriba County, New Mexico	
Date: October 26, 2017	
Photograph #3	

