٠, · . 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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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	
12019 Proposed Alternative Method Permit or Closure Plan Application	
Anended Type of action: Below grade tank registration Anended Permit of a pit or proposed alternative method Glosure of a pit, below-grade tank, or proposed alternative method 43-21167 Modification to an existing permit/or registration	
\square	
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 ordinance	es.
1. Operator: WPX Energy Production, LLC OGRID #: 120782	
Address: PO Box 640/721 S Main Aztec, NM 87410	
Facility or well name: Chaco 2206-02P #227H	_
API Number:	
U/L or Qtr/Qtr PSection 2Township 22NRange 6WCounty: <u>Sandoval</u>	
Center of Proposed Design: Latitude 36.16062 N Longitude -107.43187 W NAD: □1927 ⊠ 1983	3
Surface Owner: 🗌 Federal 🛛 State 🗋 Private 🗋 Tribal Trust or Indian Allotment	
☑ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: ☑ Drilling ☑ Completion □ Workover □ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management Low Chloride Drilling Fluid ☑ yes □ no ☑ Lined □ Unlined Liner type: Thickness _ 20mil ☑ LLDPE □ HDPE □ PVC □ Other ☑ String-Reinforced Liner Seams: ☑ Welded ☑ Factory □ Other Volume: _10.686bbl Dimensions: L_50'_x W_100'_x D_12'	
3. Image: Subsection I of 19.15.17.11 NMAC OIL CONS. DIV DIST. 3 Volume:	
Tank Construction material: JUN 0 9 2014 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	

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:

7.

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

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

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

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

^{9.} Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce 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
 Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NJ 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. A Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC A Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC A Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC A 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: <u>30-039-31192</u> or Permit Number: 	ruments are NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct 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 19.3 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:	

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^{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 attached.</i>	documents are
 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 19.15.17.11 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 Empire Cantrol Plan 	
 Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>	
Type: \square Drilling \square Completion \square Workover \square Emergency \square Cavitation \square P&A \square Permanent Pit \square Below-grade Tank Management Pit	🗌 Multi-well Fluid
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	
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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. P 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
- written communition of vermeation from the memorpancy, written approval obtained from the municipancy	

Within the area overlying a subsurface min.		
Within a unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society, Topographic map Within a 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 The Construction Design Plan of Restluits: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please into Yes 20 1 Society, Topographic map Soling Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC Growthee Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Bural Trench (if apolicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Bural Trench (if apolicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Bural Trench (if apolicable) based upon the appropriate requirements of 19.15.17.13 NMAC Soling Corter Design - hased upon the appropriate requirements of 19.15.17.13 NMAC Solic Over Design - hased upon the appropriate requirements of 19.15.17.13 NMAC Subsection H of 19.15.17.13 NMAC Subsection		site 🗌 Yes 🛛 No
Within an unstable erse. Production Production Production Press I Society; Topographic map Press Within a 100-year floodplain. Press FEMA map Press To acteck mark in the box, that the documents are attached. Sing Creating Complements of 10:15:17:13 NMAC On-Site Clearter Plan Checklist: (19:15:17:13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please india Within a 100-year floodplain. Construction/Design Plan of Durint Trench (16) applicable) bead upon the appropriate requirements of Subsection K of 19:15:17:13 NMAC Construction/Design Plan of Enciproving the appropriate requirements of 19:15:17:13 NMAC Construction/Design Plan of Enciproving requirements of 19:15:17:13 NMAC Construction/Design Plan of Enciproving requirements of 19:15:17:13 NMAC Construction/Design Plan of Enciproving requirements of 19:15:17:13 NMAC Question Plan - based upon the appropriate requirements of 19:15:17:13 NMAC Stile Reclamation Plan - based upon the appropriate requirements of 19:15:17:13 NMAC Question Plan - based upon the appropriate requirements of Subsection H of 19:15:17:13 NMAC Stile Reclamation Plan - based upon the appropriate requirements of Subsection H of 19:15:17:13 NMAC Question Plan - based upon the appropriate requirements of Subsection H of 19:15:17:13 NMAC Reverestand apon the appropriate requirements of Subsectin H	 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Ves X No
Within a 100-year floodplain. Image: Ves I	 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geology 	
15 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indition of the compliance Developments of 19.15.17.10 NMAC 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 indition to appropriate requirements of 19.15.17.10 NMAC 17 OnstructionDesign Plan of Burla Trench (17 applicable) based upon the appropriate requirements of 19.15.17.13 NMAC 18 ConstructionDesign Plan of Burla Trench (17 applicable) based upon the appropriate requirements of 19.15.17.13 NMAC 18 ConstructionDesign Plan of Burla Trench (17 applicable) based upon the appropriate requirements of 19.15.17.13 NMAC 19 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC 19 Disposal Plan (14 applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC 19 Disposal Plan (14 applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC 19 Disposal upon the appropriate requirements of 19.15.17.13 NMAC 10 Revergestation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC 10 Bernet Application Certification: Interby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. 10 Mark Heil Title: Reveggestrue Soci.	Within a 100-year floodplain.	🗌 Yes 🛛 No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please ind > district Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Tench (if applicable) based upon the appropriate requirements of Subsection E of 19.15.17.11 NMAC Construction/Design Plan of Temporry Fit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporry Fit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Marcial Sampling Plan (in upplicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Pacifity Name and Permit Number (for liquids, drilling fluids and drill autings or in case or-site closure standards cannot be achieved) Solid Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Solid Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Solid Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Solid Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC The exceptation Fluin - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Solid Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC The exceptation fluin - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC		
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print) Mark Heil Title:	On-Site Closure Plan Checklist:(19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the cby a check mark in the box, that the documents are attached.□□□□○0 f Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.10 NMAC□□□○0 f Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC□□○○<	19.15.17.11 NMAC nts of 19.15.17.11 NMAC
Signature:	Operator Application Certification:	e and belief.
e-mail address: mark.heil@wpxenergy.com Telephone: 505-333-1806 18. OCD Approval: Permit Application (including closure man) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 7/21/20/4 Approval Date: 7/21/20/4 Title: OCD Permit Number: Approval Date: 7/21/20/4 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure rep 19. 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. 20. Closure Method: Closure Completion Date: 20. Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems onl) 11. If different from approved plan, please explain. Instructions: Each of the following items must be attached to the closure report. Please indicate, by a chee mark in the box, that the documents are attached.	Name (Print) Mark Heil Title: Regulatory Specialist	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 7/21/95/4 Title: OCD Permit Number: OCD Permit Number: 19. OCD representative Signature: 000000000000000000000000000000000000	Signature: Date: Date:	
OCD Approval: Approval: Permit Application (including closure rhan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	e-mail address: <u>mark.heil@wpxenergy.com</u> Telephone: <u>505-333-1806</u>	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure rep 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. 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a chemark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachn OCD Representative Signature: Approval Date: Approval Date:	7/21/2014
Closure Method: On-Site Closure Method Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a chemark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	<u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and su The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Pleas section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a chemark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (C	Closed-loop systems only)
 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 	Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. If mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only)	Please indicate, by a check

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

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WPX Energy Production, LLC San Juan Basin: New Mexico Assets

Modification of Chaco 2206-02P 227H Temporary Pit In-place Closure Plan (51-100 feet)

In accordance with Rule 19.15.17.16.E NMAC WPX Energy is requesting the following modification to the reference Temporary Pit Permit. This modification is an adjustment of in place closure method specified in the Closure Plan. This modification is a variance to Rule 19.15.17.13.D, but is consistent with the closure requirements prior to rule amendments adopted on June 28th, 2013.

Original Closure Plan:

D. WPX closures where wastes are destined for burial in place...

(8) Upon achieving all applicable waste stabilization in the temporary pit or transfer of stabilized wastes to the temporary pit or burial trench, WPX will:

(a) fold the outer edges of the trench liner to overlap the waste material in the trench prior to the installation of the geomembrane cover;

(b) install a geomembrane cover over the waste material in the lined trench or temporary pit; the operator shall install the geomembrane cover in a manner that prevents the collection of infiltration water in the lined trench or temporary pit and on the geomembrane cover after the soil cover is in place; the geomembrane cover shall consist of a 20-mil string reinforced LLDPE liner or equivalent cover that the appropriate division district office approves; the geomembrane cover shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions; cover compatibility shall comply with EPA SW-846 Method 9090A;

- (c) cover the pit/trench with non-waste containing, uncontaminated, earthen materials and construct a soil cover prescribed by the division in Paragraph (3) of Subsection H of 19.15.17.13 NMAC.

	r Soils Beneath Below	Yable I v-Grade Tanks, Drying Pads A Yits where Contents are Remov	
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA 300.0	600 mg/kg
	ТРН	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA 300.0	10,000 mg/kg
	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
-	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
-	Chloride	EPA 300.0	20,000 mg/kg
> 100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg

The following criteria were used for the original closure plan of the Chaco 2206-02P #227H, Table1 and Table 2:

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Benzene	EPA SW-846 Method	10 mg/kg
	8021B or 8015M	

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater

	-	able II	
		or Burial Trenches and	
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Ace in Temporary Pits Method*	Limit**
	Chloride	EPA Method 300.0	20,000 mg/kg
25-50 feet	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA Method 300.0	40,000 mg/kg
51-100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA Method 300.0	80,000 mg/kg
> 100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
Ţ.	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater [19.15.17.13 NMAC - Rp, 19.15.17.13 NMAC, 6/28/13]

Modification of Closure Plan:

The pit liner shall be removed above "mud level" after stabilization. Removal of the liner will consist of manually or mechanically cutting the liner at the mud level and removing all remaining liner. Care will be taken to remove "all" of the liner (I.e. anchored material). All excessive liner will be disposed of at a licensed disposal facility (probably San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426).

Closure Criteria		able I v-Grade Tanks, Drying Pads A	Associated with
		its where Contents are Remov	
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA 300.0	500 mg/kg
51-100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	0.2 mg/kg
	Chloride	EPA 300.0	20,000 mg/kg
> 100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater

Temporary Pit In-place Closure Variance:

The in-place closure method requested in this modification is intended to provide equal or better protection of fresh water, public health and the environment as required per 19.15.17.15.A(3) This method would use the 2008 pit rule closure criteria for soils beneath below grade tanks, drying pads associated with closed-loop systems and pits where contents are removed (Table 1) and closure criteria for burial tranches and waste left in place in temporary pits. These criteria are more stringent than the current rule, providing better fresh water, public health, and environmental protection. In addition, this variance would allow the operator more flexibility to meet Bureau of Land Management reclamation plan requirements and to meet NMOCD compliance by reducing the likelihood of tearing the liner upon reclamation.



Analytical Report

Report Summary

Client: WPX Energy, Inc. Chain Of Custody Number: 16616 Samples Received: 2/17/2014 11:30:00AM Job Number: 04108-0006 Work Order: P402040 Project Name/Location: Chaco 2206-2P #227H

Date: 2/24/14

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

OIL CONS. DIV DIST. 3 JUL 2: 1 2014

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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	WPX Energy, Inc.	Project Name:	Chaco 2206-2P #227H	
	PO Box 21218	Project Number:	04108-0006	Reported:
i	Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	24-Feb-14 10:31

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
Cuttings Pit	P402040-01A	Soil	02/13/14	02/17/14	Glass Jar, 4 oz.	

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WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358	Project Name: Project Number: Project Manager:		Chaco 2206-2P #/ 04108-0006 Buddy Shaw		227H			Reported: 24-Feb-14 10	
			ttings Pi 40-01 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1408007	02/18/14	02/20/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1408007	02/18/14	02/20/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1408007	02/18/14	02/20/14	EPA 8021B	
p,m-Xylene	0.41	0.05	mg/kg	1	1408007	02/18/14	02/20/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	l	1408007	02/18/14	02/20/14	EPA 8021B	
Total Xylenes	0.41	0.05	mg/kg	I	1408007	02/18/14	02/20/14	EPA 8021B	
Total BTEX	0.41	0.05	mg/kg	I	1408007	02/18/14	02/20/14	EPA 8021B	
Surrogate: Bromochlorobenzene		116 %	80-	-120	1408007	02/18/14	02/20/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		101 %	80-	-120	1408007	02/18/14	02/20/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	23.1	4.99	mg/kg	1	1408007	02/18/14	02/20/14	EPA 8015D	
Diesel Range Organics (C10-C28)	216	30.0	mg/kg	I.	1408006	02/18/14	02/19/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	323	19.9	mg/kg	l	1408005	02/18/14	02/18/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	78.6	9.90	mg/kg	1	1408008	02/19/14	02/19/14	EPA 300.0	

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WPX Energy, Inc.	Project Name:	Chaco 2206-2P #227H	
PO Box 21218	Project Number:	04108-0006	Reported:
Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	· 24-Feb-14 10:31

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1408007 - Purge and Trap EPA 5030A										
Blank (1408007-BLK1)				Prepared: 1	8-Feb-14	Analyzed: 2	20-Feb-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	11							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	11							
p-Xylene	ND	0.05	11							
Total Xylenes	ND	0.05	11							
Total BTEX	ND	0,05	и							
Surrogate: 1,3-Dichlorohenzene	44.2		ug/L	50.0		88. <i>3</i>	80-120			
Surrogate: Bromochlorobenzene	46.3		"	50.0		92.5	80-120			
Duplicate (1408007-DUP1)	Sou	irce: P402040-	01	Prepared: 1	8-Feb-14	Analyzed: 2	20-Feb-14			
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	**		ND				30	
p,m-Xylene	0.33	0.05	"		0.41			21.6	30	
o-Xylene	ND	0.05	n		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.5		ug/L	50.0		101	80-120			
Surrogate: Bromochlorobenzene	59.1		"	50.0		118	80-120			
Matrix Spike (1408007-MS1)	Sou	rce: P402040-	01	Prepared: 1	8-Feb-14	Analyzed: 2	20-Feb-14			
Benzene	43.2		ug/L	50.0	ND	86.5	39-150		_	
Toluene	47.0		н	50.0	ND	94.1	46-148			
Ethylbenzene	47.2		11	50.0	ND	94.5	32-160			
p,m-Xylene	97.7		"	100	8.30	89.4	46-148			
p-Xylene	46.6	•	"	50.0	ND	93.1	46-148			
Surrogate: 1,3-Dichlorobenzene	50.4		"	50.0		101	80-120			
Surrogate: Bromochlorobenzene	56.1		"	50.0		112	80-120			

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WPX Energy, Inc.	Project Name:	Chaco 2206-2P #227H	
PO Box 21218	Project Number:	04108-0006	Reported:
Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	24-Feb-14 10:31

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1408006 - DRO Extraction EPA 3550C										
Blank (1408006-BLK1)				Prepared: 1	18-Feb-14 .	Analyzed:	19-Feb-14			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1408006-DUP1)	Sou	rce: P402040-	01	Prepared: 1	18-Feb-14	Analyzed:	19-Feb-14			
Diesel Range Organics (C10-C28)	267	29.9	mg/kg		216			21.2	30	
Matrix Spike (1408006-MSI)	Sou	rce: P402040-	01	Prepared: 1	8-Feb-14	Analyzed:	9-Feb-14			
Diesel Range Organics (C10-C28)	128	29.9	mg/kg	49.9	216	NR	75-125			SPK1

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WPX Energy, Inc	Project Name:	Chaco 2206-2P #227H	
PO Box 21218	Project Number:	04108-0006	Reported:
Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	24-Feb-14 10:31

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory											
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 1408007 - Purge and Trap EPA 5030A			<u></u>						RX .		
Blank (1408007-BLK1)				Prepared: 1	8-Feb-14	Analyzed: 2	20-Feb-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg								
Duplicate (1408007-DUP1)	Sou	irce: P402040-	01	Prepared: 18-Feb-14 Analyzed: 20-Feb-14							
Gasoline Range Organics (C6-C10)	22.3	4.99	mg/kg		23.1			3,73	30		
Matrix Spike (1408007-MS1)	Sou	urce: P402040-	01	Prepared: 1	8-Feb-14	Analyzed: 2	20-Feb-14				
Gasoline Range Organics (C6-C10)	0.85		mg/L	0.450	0.46	86.7	75-125				

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ĺ	WPX Energy, Inc.	Project Name:	Chaco 2206-2P #227H	
	PO Box 21218	Project Number:	04108-0006	Reported:
	Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	24-Feb-14 10:31

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory											
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 1408005 - 418 Freon Extraction											
Blank (1408005-BLK1)				Prepared & Analyzed: 18-Feb-14							
Total Petroleum Hydrocarbons	75.8	19.9	mg/kg								
Duplicate (1408005-DUP1)	Sou	rce: P402040-	01	Prepared & Analyzed: 18-Feb-14							
Total Petroleum Hydrocarbons	327	20.0	mg/kg		323			1.25	30		
Matrix Spike (1408005-MS1)	Source: P402040-01 Pi		Prepared &	Prepared & Analyzed: 18-Feb-14							
Total Petroleum Hydrocarbons	2270	19.9	mg/kg	1990	323	97.8	80-120				

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WPX Energy, Inc.	Proj	ect Name:	С	haco 2206-21	9 #227H					
PO Box 21218	Proj	ect Number:	0-	4108-0006					Report	ied:
Tulsa OK, 74121-1358	Proj	Project Manager: Buddy Shaw							24-Feb-14	10:31
	Cati	on/Anion A	Analysis	- Quality	Control					
	En	virotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1408008 - Anion Extraction EPA	300.0									
Blank (1408008-BLK1)				Prepared &	Analyzed:	19-Feb-14				
Chloride	ND	9.99	mg/kg							
LCS (1408008-BS1)				Prepared &	Analyzed:	19-Feb-14				
Chloride	498	9.90	mg/kg	495		101	90-110			
Matrix Spike (1408008-MS1)	Sour	ce: P402039-	01	Prepared &	Analyzed:	19-Feb-14				
Chloride	506	9.99	mg/kg	500	ND	101	80-120			
Matrix Spike Dup (1408008-MSD1)	Sour	ce: P402039-	01	Prepared &	Analyzed:	19-Feb-14				
Chloride	504	9.89	mg/kg	495	ND	102	80-120	0.317	20	

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WPX Energy, Inc.	Project Name:	Chaco 2206-2P #227H	
PO Box 21218	Project Number:	04108-0006	Reported:
Tulsa OK, 74121-1358	Project Manager:	Buddy Shaw	24-Feb-14 10:31

Notes and Definitions

SPK1	The spike recovery for this QC sample is outside of control limits.
В	Analyte is found in the associated blank.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dıy	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

16616

Client: Project Name / Locat WPX ENERSY Chaco 220				on:) # ₂	2~	7 ++		ANALYSIS / PARAMETERS													
Email results to: Sampler Name: Buddly Shaw Bobby L									TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	Metals	/ Anion		th H/P	e 910-1	8.1)	DE			Cool	ntact
Sample No./ Identification	Sample Date	Sample Time	Láb Nó.	No:/	Volume ntainers	Pi HNO3	reservat	ive	ŢPH (Me	BTEX (N	VOC (M	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Cuttings Pit	2/13/14	2:30 PM	P402040-01		l				/	1/							/		1			$\overline{\mathbf{A}}$
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Relinquished by: (Signature)	\sum		L.,	Date 2/17/14	Time 11:30		ived b	y: (S		ure) m	Ι γ	· ·							,	Date 2/17/1		ime 30
Relinquished by: (Signature)						Rece	ived b	y (S	ignat	ure)												
Sample/Matrix Soil 🔽 Solid 🗌 Sludge 🗌	Aqueous [] Other []		e					ş										<u></u>			
Sample(s) dropped off after	hours to se	cure drop of	farea.	3	en V Anal	Îr (lytic		e (C r) V	8,4	•										
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