Distric. 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 Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or								
Proposed Alternative Method Permit or Closure Plan Application								
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration ADD CHACO 2308 03E #403H Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method								
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request								
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.								
Operator: <u>WPX Energy Production, LLC</u> OGRID #: <u>120782</u>								
Address: PO Box 640/721 S Main Aztec, NM 87401								
Facility or well name: Chaco 2308 03L #404H, Chaco 2308 03L #405H, Chaco 2308 03E #403H								
API Number:								
U/L or Qtr/Qtr L Section 03 Township 23N Range 08W County: San Juan								
Center of Proposed Design: Latitude <u>N36.25506</u> Longitude <u>W107.67724</u> NMOCD NAD83								
Surface Owner: 🛛 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment								
2. MAR 2 2 2018								
Pit: Subsection F, G or J of 19.15.17.11 NMAC								
Temporary: DISTRICT								
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:120bbl Type of fluid:produced water								
Tank Construction material: _double wall, double bottom, steel								
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								
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. Exercise: Subsection D of 10.15.17.11 NMAC (Applies to normalize the temperature site and holes: and holes: and holes:								
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 (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)								
Four foot height, four strands of barbed wire evenly spaced between one and four feet								
Alternate. Please specify As per BLM specifications								

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes 🗌 No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗍 No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dou attached. Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 	o NMAC 15.17.9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached.	.15.17.9 NMAC

12.								
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the optimalized	documents are							
<i>attached.</i> Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC								
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC								
Climatological Factors Assessment								
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC								
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC								
 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC 								
Quality Control/Quality Assurance Construction and Installation Plan								
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC								
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC								
Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan								
Emergency Response Plan								
 Oil Field Waste Stream Characterization Monitoring and Inspection Plan 								
Erosion Control Plan								
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
13. Proposed Closure: 19.15.17.13 NMAC								
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.								
Type: 🗌 Drilling 🔲 Workover 🔲 Emergency 🔲 Cavitation 🗌 P&A 🔲 Permanent Pit 🔀 Below-grade Tank 🗌 Multi-well Fl	uid Management Pit							
Alternative	U							
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								
14.	· · · · · · · · · · · · · · · · · · ·							
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a	attached to the							
closure plan. Please indicate, by a check mark in the box, that the documents are attached.								
 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC 								
 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	lease refer to							
19.15.17.10 NMAC for guidance.								
Ground water is less than 25 feet below the bottom of the buried waste.	□ Yes □ No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	$\square Yes \square No \\ \square NA$							
-								
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	$\square Yes \square No \\ \square 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								
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa	Yes No							
lake (measured from the ordinary high-water mark).								
- Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence	Yes No							
at the time of initial application.								
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site								
Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes 🗌 No								
Within 300 feet of a wetland.								
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site								
	Yes No							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance								
Form C-144 Oil Conservation Division Page 4 of	26							

adopted pursuant to NMSA 1978, Section 3-27-3, as amen										
 Written confirmation or verification from the mun 	nded. nicipality; Written approval obtained from the municipality	Yes No								
Within the area overlying a subsurface mine. - Written confirmation or verification or map from	the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No								
Within an unstable area.										
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 										
Within a 100-year floodplain. - FEMA map										
FEMA map Yes No 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Reclamation 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 Site Reclamation Pl										
17. <u>Operator Application Certification</u> : I hereby certify that the information submitted with this a	pplication is true, accurate and complete to the best of my knowledge and beli	ief.								
Name (Print):Deborah Watson	Title: Environmental Specialist									
SignatureDa e-mail address:deborah.watson@wpxenergy	Telephone: <u>505-333-1880</u>									
18.	AAD									
	re plan) Closure Plan (only) OCD Conditions (see attachment)	612018								
OCD Approval: Permit Application (including elosu OCD Representative Signature:	Approval Date: 30	6[2018_								
OCD Approval: Permit Application (including elosu		6[2018_								
OCD Approval: Permit Application (including closu OCD Representative Signature: Title: Closure Report (required within 60 days of closure com Instructions: Operators are required to obtain an approv The closure report is required to be submitted to the divisi	Approval Date: 30 OCD Permit Number: mpletion): 19.15.17.13 NMAC ved closure plan prior to implementing any closure activities and submitting sion within 60 days of the completion of the closure activities. Please do not been obtained and the closure activities have been completed.	the closure report.								
OCD Approval: Permit Application (including closu OCD Representative Signature: Title: Title: Closure Report (required within 60 days of closure com Instructions: Operators are required to obtain an approv The closure report is required to be submitted to the divis section of the form until an approved closure plan has be	Approval Date: 30 OCD Permit Number: apletion): 19.15.17.13 NMAC ved closure plan prior to implementing any closure activities and submitting sion within 60 days of the completion of the closure activities. Please do not	the closure report.								
OCD Approval: Permit Application (including closu OCD Representative Signature: Title: Closure Report (required within 60 days of closure com Instructions: Operators are required to obtain an approv The closure report is required to be submitted to the divis section of the form until an approved closure plan has be	Approval Date: 30 OCD Permit Number: mpletion): 19.15.17.13 NMAC ved closure plan prior to implementing any closure activities and submitting sion within 60 days of the completion of the closure activities. Please do not been obtained and the closure activities have been completed.	the closure report.								
OCD Approval: Permit Application (including closure) OCD Representative Signature: Image: Construction of the closure construction of the form until an approved closure plan has been been been been been been been bee	Approval Date: 30 CCD Permit Number:	the closure report. complete this								

1 .	
 22. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure reported belief. I also certify that the closure complies with all applicable closure requirements 	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

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District I 1625 N. French Dr., Hobbs, NM 88240 District II <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Page 1

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Old CONS. DIV DIST. 3 Appendix and the proposed for the proposed fo	ı
45-35539 Permit of a pit or proposed alternative method NOV 1 3 2014 45-35538 Closure of a pit, below-grade tank, or proposed alternative method NOV 1 3 2014 45-35538 Modification to an existing permit/or registration NOV 1 3 2014 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method NOV 1 3 2014	
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	s.
1. Operator: WPX Energy Production? LLC OCDID # 120782	
Operator: WPX Energy Production' LLC OGRID #: 120782 Address: PO Box 640/721 S Main Aztec, NM 87410 120782	
Facility or well name: Chaco 2308 03L 404H & Chaco 230803L #405H ADIAL share 20.045 25520, 820,045 25528	
API Number: 30-045-35539 & 30-045-35538 OCD Permit Number: U// as Otr/Otr L Satting 02 Taugating 23bl Date of the satting Date of th	Ì
U/L or Qtr/Qtr L Section 03 Township 23N Range 08W County: Rio Arriba Center of Proposed Design: Latitude 36.25506N Longitude -107.67724W NAD: □1927 ☑ 1983	,
	,
Surface Owner: 🖾 Federal 🗋 State 🗋 Private 🗍 Tribal Trust or Indian Allotment	
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	í
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no	
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D	
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume 120 bbl Type of fluid: Produced Water	
Tank Construction material:Double wall, double bottom, Steel	
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.	٦
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 As per BLM specifications	

T 4	
Screen 🗍 Netting 🗌 Other	
Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.16.8 NMAC	
 8. <u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	
^{9.} Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accumaterial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
<u>General siting</u>	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - X 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.	🗌 Yes 🗍 No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site <u>Temporary Pit Non-low chloride drilling fluid</u> 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). 	s 🗌 No
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole,	
	s 🗌 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	s 🗌 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	s 🗌 No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	s 🗌 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	s 🗌 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	s 🗌 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	s 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	s 🗋 No
 10. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u>: Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents attached.</i> Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC 	are
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 	IMAC
and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. <u>Multi-Well Fluid Management Pit Checklist</u> : 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 attached.	are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 	NMAC
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. 	NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC									
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.	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 19.15.17.12 NMAC 									
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC									
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan 									
Oil Field Waste Stream Characterization									
Monitoring and Inspection Plan From 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 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 Fl	luid Management Pit								
Alternative									
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									
 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. <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 sourprovided 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 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA								
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells									
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									
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									
 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 									
 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 									
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗋 Yes 🛛 No								
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	🗌 Yes 🛛 No								
Form C-144 Oil Conservation Division Page 4 of 2	 7]								

Indept pursuant to NMSA 1978, Section 3:27:3, as emanded.	adopted bursuant to NMSA 1978. Section 3-27-3 as amended	
Writen confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Writen as usable sers. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USOS; NM Geological Society; Togorghile rap Writen a 160-year floodplain. Pers Ø No Society: Togorghile rap Ves Ø No Society: Togorghile rap Society: Togorghile rap	- Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic may Writhin a 100-year floadplain. Prove of No. 100-year floadplain.		🗌 Yes 🛛 No
Within a 100-year floodplain.		
PEMA map	Society; Topographic map	🗌 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 tadked.		🗌 Yes 🛛 No
Operator Application Certification: 1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): Vanessa Fields Signature: Date: 11-11-2014 e-mail address: Vanessa Fields@wpxenergy.com OCD Approval: Permit ApplicationTincluding closure plan) OCD Approval: Permit ApplicationTincluding closure plan) OCD Representative Signature: Approval Date: Title: EducationSignature: OCD Representative Signature: OCD Permit Number: Approval Date: II/17///44 Title: Educations: Operators are required to obtain an approved closure plan pior to implementing any closure activities and submitting the closure report. The closure report is required to obtain an approved closure plan pior to implementing any 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 Method: 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. 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 do	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 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. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 canned 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	11 NMAC 15.17.11 NMAC
1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): Vanessa Fields Signature: Date: II-11-2014 e-mail address: Vanessa Fields@wpxenergy.com Telephone: 505-333-1880 ************************************		
Name (Print): Vanessa Fields Title: Environmental Specialist Signature: Date: 11-11-2014 e-mail address: Vanessa Fields@upxenergy.com Telephone: 505-333-1880 ************************************		ef.
c-mail address: Vanessa Fields@wpxenergy.com Telephone:		
c-mail address: Vanessa Fields@wpxenergy.com Telephone:	Signature: Date: 11-11-2014	
1 OCD Approval: Permit Application (including plosure blan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: ////////////////////////////////////		
OCD Approval: Permit Application (including obselve plan) Cosure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:		
13. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to abtain 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. 14. Closure Method: 17. 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. 17. Proof of Closure Notice (required for on-site closure for private land only) 18. Confirmation Sampling Analytical Results (required for on-site closure for private land only) 19. Proof of Deed Notice (required for on-site closure for private land only) 19. Confirmation Sampling Analytical Results (required for on-site closure Sampling Analytical Resu		
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the 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. 20. 21. 21. 21. 21. 21. 21. 21. 21. 21. 21. 22. 23. 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 for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (required for on-site closure) Disposal Facility Name	OCD Approval: I Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	/14
Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. 1. 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 for private land 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)	OCD Approval: I Permit Application (including ofosure plan) [] Ctosure Plan (only) [] OCD Conditions (see attachment) OCD Representative Signature:	/14
Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. 1. 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 for private land 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)	OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	the closure report.
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 for private land 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)	OCD Approval: Permit Application (including ofosure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	the closure report.
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.22 Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quar						VE 3=SW () largest		33 UTM in meters)		(In feet	t)
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Record Count: 4													

PLSS Search:

Township: 23N Range: 08W

*UTM location was derived from PLSS - see Help

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

7/31/13 1:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the	(R=POD has been replaced												
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SJ 00960 S-2		SJ	3	2	3	36	24N	08W	263147	4016909* 🕐			
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										Average Depth to Water:		690 fe	et
									Minimum Depth:		690 feet		
										Maximum Depth:			et

PLSS Search:

Township: 24N

Range: 08W

*UTM location was derived from PLSS - see Help

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

9/24/13 9:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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Hydrogeological Report WPX Energy Production, LLC Chaco 2308 03L 404H Chaco 2308 03L #405H

Regional Hydrological Context

Referenced Well Location:

The referenced well and pit is located on Bureau of Land Management land within Farmington Field Office (FFO) jurisdiction in Rio Arriba County, New Mexico. This site is positioned in the northeastern portion of the San Juan Basin, an asymmetrical syncline that extends from northwestern New Mexico into southwestern Colorado (Carson National Forest FEIS, 2008). Elevation of the referenced well is approximately 6,885 feet MSL.

General Regional Groundwater Description:

As a portion of the San Juan Basin, the FFO is underlain by sandstone aquifers of the Colorado Plateau. The primary aquifer of potential concern at this location is the Uinta-Animas Aquifer, composed primarily of Lower Tertiary rocks in the San Juan Basin. The aquifer consists of the San Jose Formation; the underlying Animas formation and its lateral equivalent, the Nacimiento formation; and the Ojo Alamo Sandstone. The thickness of the Uinta-Animas aquifer generally increases toward the central part of the basin. In this region, the maximum thickness of the aquifer is approximately 3500 feet (USGS, 2001). This aquifer contains fresh to moderately saline water.

Groundwater generally flows toward the San Juan River and its tributaries, where it becomes alluvial groundwater or is discharged to stream flow. Additional information regarding the hydrogeologic setting can be found in the provided references.

Site Specific Information: Surface Hydrology:

1st Water Bearing Formation: Formation Thickness: Underlying Formation: Depth to Groundwater: The pit is located on hilly terrain with moderate to steep slopes to the northwest draining into Kimbeto Wash. San Jose, Tertiary Approximately 1,900 ft. Nacimiento, Tertiary Depth to groundwater is estimated at greater than 100 feet below bottom of pit liner. Within a one-mile radius of this location, there is no iWATERS well with recorded water depth. However, based on the iWATERS well SJ 02686 groundwater is estimated at greater than 100 feet (see Siting Criteria Map I for details). (See Siting Criteria Map I for details).

References:

Allen, Erin. Undated. Colorado Plateau Aquifers. http://academic.emporia.edu/schulmem/hydro/TERM%20PROJECTS/2007/Allen/Aquifer.html.

New Mexico Energy, Minerals and Natural Resources Department, Division of Mining and Minerals. Database. 2010. Internet accessed January 2010.

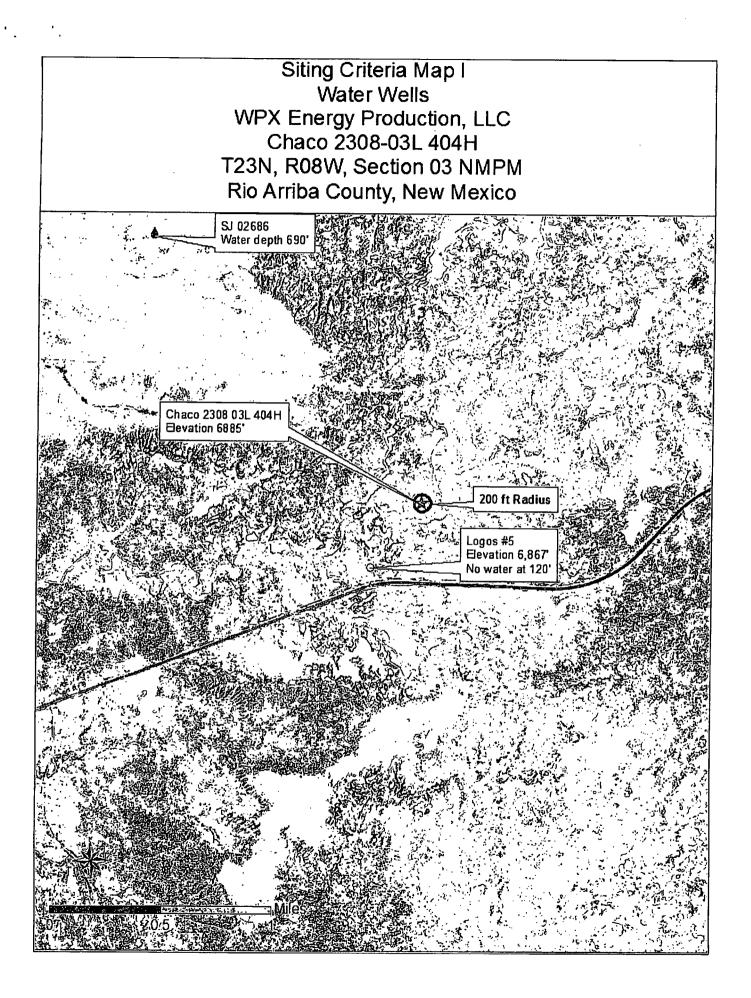
New Mexico Office of the State Engineer. 2013. iWaters database. Internet accessed July 2013.

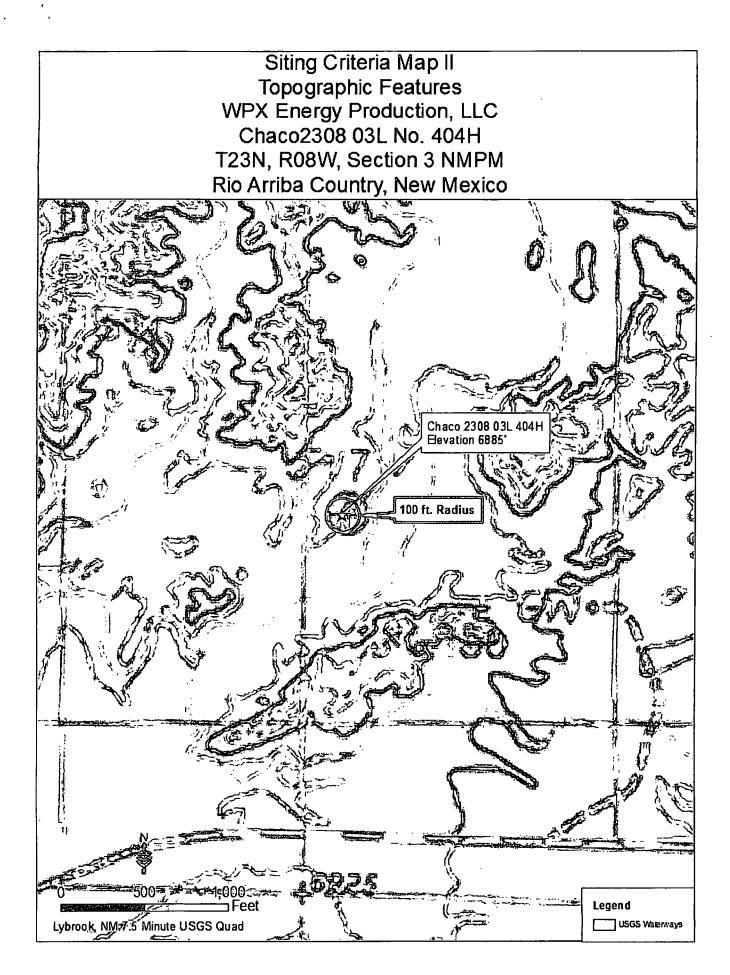
New Mexico WQCC. 2005. State of New Mexico Water Quality Act and the Water Control Commission Regulations.

United States Department of Agriculture, Forest Service. 2008. Final Environmental Impact Statement for Surface Management of Gas Leasing and Development. Jicarilla Ranger District, Carson National Forest, Rio Arriba County, New Mexico.

United States Department of the Interior. Bureau of Land Management. 2003. Final Farmington Resource Management Plan and Final Environmental Impact Statement. Farmington Field Office, Farmington, New Mexico.

United States Geological Survey. 2001. Ground Water Atlas of the United States: Arizona, Colorado, New Mexico and Utah. USGS Publication HA 730-C;





Form C-144

Siting Criteria Compliance Demonstrations:

- The Chaco 2308 03L 404H well is not located in an unstable area. The location is not situated over a mine or a steep slope.
- The BGT will not be located within 100 feet of a continuously flowing water course or within 100 feet of any other significant water course, lakebed, sinkhole, or playa lake (see Siting Criteria Map II). The site is not within 100 feet of any reported riparian areas or wetlands (see attached USFWS wetland map); within 200 feet of any private, domestic fresh water well or spring; or within 200 feet of any other fresh water well or spring (see Siting Criteria Map I).
- The BGT will not be within any incorporated municipal boundaries or defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.



WPX Energy requests the following variances:

- The BGT will be protected from run on by being installed upon a top felt rock shield with a overlay of 30 mil rubber liner attached to the sidewalls of the inside of the containment berm. The 30 mill rubber liner will provide equal and/or better protection in the prevention of contamination of fresh water and protecting public health and the environment. (See attached photo))
- A 42 inch tall, 12 gauge coated metal steel fence will be constructed around the BGT to protect livestock/wildlife as specified by the federal Surface Management Agency or, if not federal land/minerals; which will provide equal and/or better protection of a fence while preventing contamination of fresh water, protecting public health and the environment. (See attached photo)
- 3. If the surface owner is of public entity (i.e.: BLM) WPX Energy will notify by email the intent to close the BGT in place of a certified mail letter. WPX Energy will request a read receipt of the email which will be equal and/ or equivalent notification as certified mail.

Thank you,

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Vanessa Fields Environmental Specialist

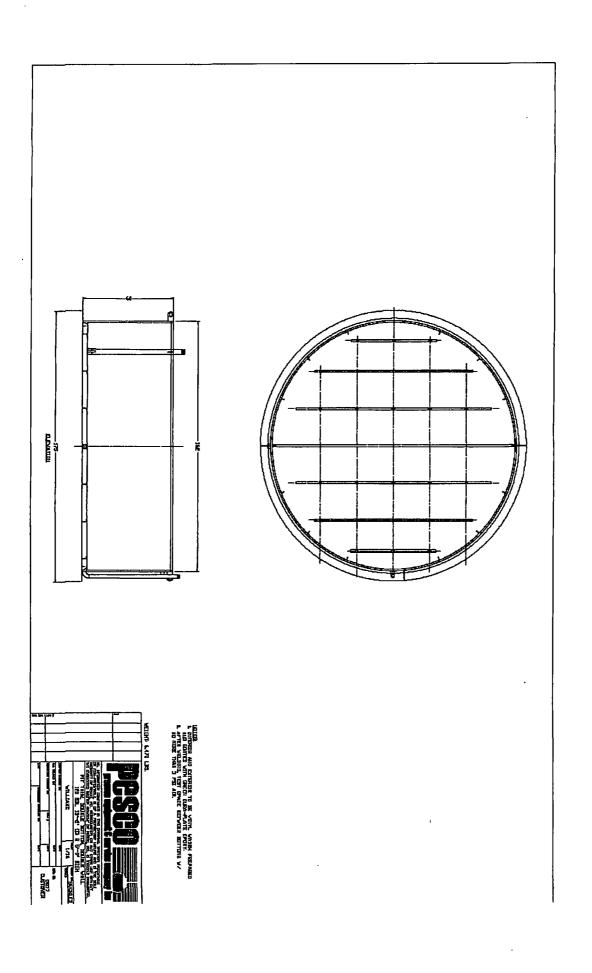
CC: / Environmental File

WPX Energy Co., LLC San Juan Basin: New Mexico Assets Production BGT: Buried Double-Wall Steel Tank Design and Construction Plan

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction (D&C) of Below Grade Tanks (BGT) using buried double-wall steel tanks on WPX Energy Co, LLC (WPX) locations in the San Juan Basin of New Mexico. For those BGT which do not conform to this standard plan, a separate well-specific D&C plan will be developed and utilized.

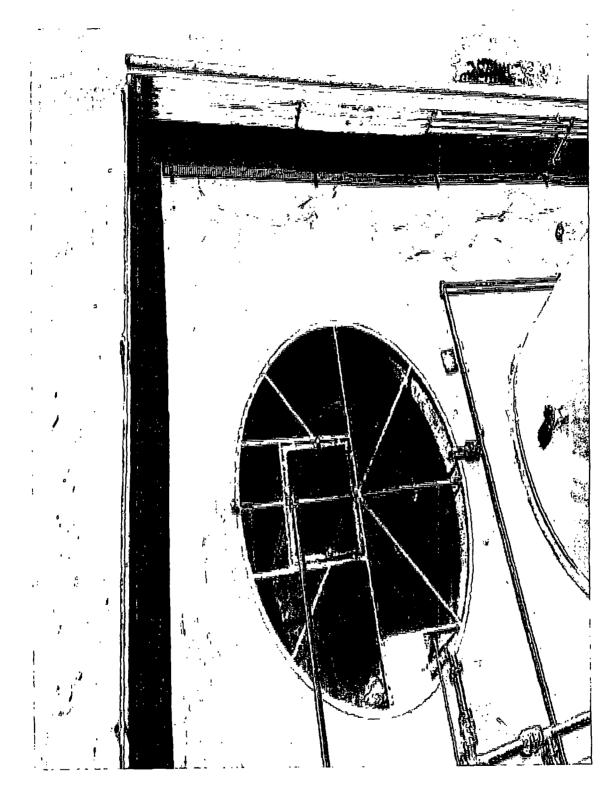
General Plan Requirements:

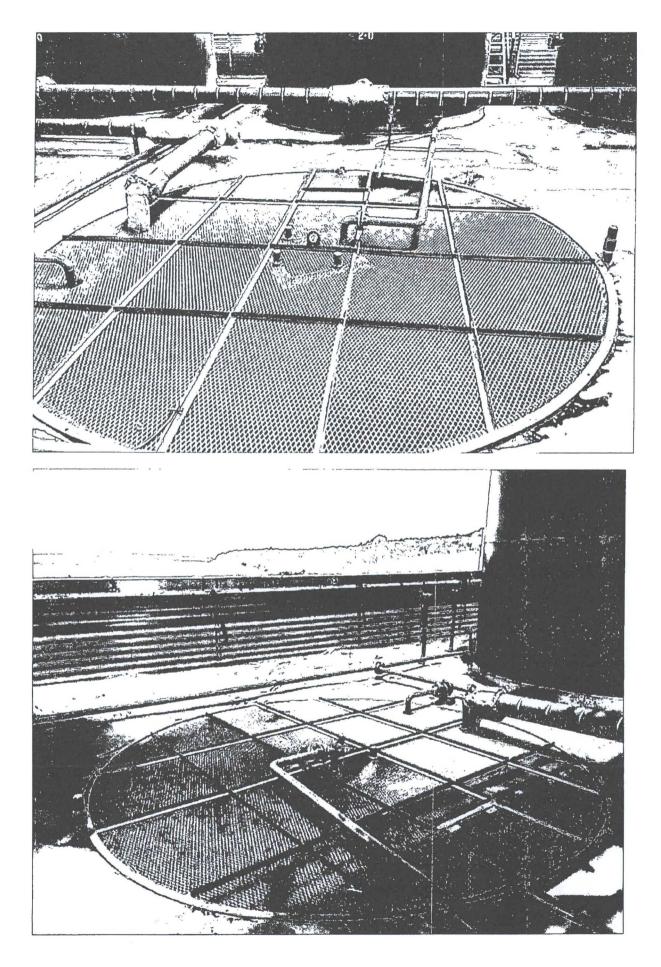
- 1. WPX will post a well sign in accordance with the federal Surface Management Agency and rule NMAC 19.15.17.11.C
- 2. As a variance a 42 inch tall, 12 gauge coated metal steel "Fence" will be constructed around the BGT to protect livestock/wildlife as specified by the federal Surface Management Agency or, if not federal land/minerals, NMOCD rule 17 requirements. See Attached Design/photo.
- 3. The buried BGT will be constructed of steel with double-walls and double-bottom, welded following appropriate API and industry codes, coated with an epoxy based paint, covered with a steel #9 mesh screen, and equipped with an EFM to monitor high liquid levels and automatically shut off liquid discharges. A solid riser pipe will be installed between the interstitial space of the double-walls to allow monthly inspection to determine tank integrity.
- 4. WPX will design and construct a BGT to contain liquids associated with the dehydration and compression of produced natural gas, which will be resistant to ultra violet light and the contents of the tank to prevent contamination of fresh water resources and protect public health and the environment.
- 5. The BGT foundation will be level and free of rocks, debris, sharp edges or irregularities and have a firm compacted bottom and sidewalls that are stable for the soil conditions.
- 6. The BGT will be protected from run on by being installed within the impervious secondary containment provided by the AST tanks on location. See attached Design (Same as Fence)
- 7. The BGT will be placed in the excavation such that there is 30 mil rubber liner overlay between the surrounding soils and the tank top see attached design.
- 8. A solid riser pipe will be installed to allow withdrawal of liquids by suction. The riser will draw from the bottom of the BGT, capped when not in use and sloped to the BGT to allow drainage of liquids not collected during withdrawal operations.



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WPX Energy Co., LLC San Juan Basin: New Mexico Assets Production BGT: Buried Double-Wall Steel Tank Operations and Maintenance Plan

In accordance with Rule 19.15.17 NMAC, the following plan describes the general operations and maintenance (O&M) of production Below Grade Tanks (BGT) on WPX Energy Co, LLC (WPX) locations in the San Juan Basin of New Mexico. For those BGT which do not conform to this standard O&M plan, a separate well specific O&M plan will be developed and utilized.

- 1. WPX will inspect the BGT monthly for leaks and damage. Electronic copies of the inspections will be kept at the WPX San Juan Basin office for a minimum of five years following completion. Copies of the inspections will be available to NMOCD upon request.
- 2. Any oil or hydrocarbon collecting on the BGT will be removed. Saleable condensate will be returned to the sales tank. Slop oil from compression will be recycled with Safety Kleen, Farmington, NM or Hydropure, Aztec, NM (No Permit Required).
- 3. WPX will only allow produced liquids meeting the RCRA exemption for O&G wastes to be stored in the BGT. WPX will not discharge or store any hazardous waste as defined under RCRA 40CFR 261 and 19.15.2.7.H.3 NMAC in any BGT.
- 4. WPX shall maintain sufficient freeboard for to prevent overflow. Discharges to the BGT will be shutoff automatically if the high-level alarm is triggered from the EFM or manually if the EFM is not functional.
- 5. The Steel fencing around the perimeter of the BGT shall be maintained as protection

from run-on.

- 6. Produced water will be disposed by evaporation or transport any of the following NMOCD approved facilities depending on the well location: Basin Disposal, Inc in Bloomfield, New Mexico (Permit # NM-01-005), WPX Energy Rosa SWD#1 (Permit # SWD-916), WPX Energy Rosa #94 (Permit # SWD-758), Burlington Resources Jillson SWD#1 (Permit #R10168A), or other NMOCD approved water disposal facilities.
- 7. If the tank integrity is compromised:
 - a. All discharges will be shut off to the BGT.
 - b. All liquids will be removed as soon as possible but no later than 24 hours after discovery.
 - c. WPX will notify and report to NMOCD in accordance to 19.15.29 NMAC and all other applicable agency's as require.

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WPX Energy Co., LLC San Juan Basin: New Mexico Assets Production BGT: Buried Double-Wall Steel Tank 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 WPX Energy 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 BGT specific closure plan will be developed and utilized.

Closure Conditions and Timing for BGT:

- Within 60 days of cessation of operation WPX will:
 - o Remove all liquids and sludge and dispose in a division approved manner
- Within 72 Hrs or 1 week prior to closure WPX will:
 - Give notice to Surface owners by certified mail. For public entities by email as specified on the variance page.
 - o Give notice to District Division verbally and in writing/email
- Within 6 months of cessation of operation WPX will:
 - Remove BGT and dispose, recycle, reuse, or reclaim in a division approved manner
 - o Remove unused onsite equipment associated with the BGT
- Within 60 Days of Closure WPX will:
 - o Send the District Division a Closure Report per 19.15.17.13.F

General Plan Requirements:

- 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.
- 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)
- All liquids will be removed from the BGT following cessation of operation.
 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).
- 4. Solids and sludge's will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).

5. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

- 6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.
- 7. 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. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13

Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	Constituent	Method	Limit
	Chloride	EPA 300.0	600 mg/kg
<u>≺</u> 50 feet	ТРН	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	Constituent	Method	Limit
	Chloride	EPA 300.0	10,000 mg/kg
	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
51 feet-100 feet	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

	Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	Constituent	Method	Limit
Ν		Chloride	EPA 300.0	20,000 mg/kg
		ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	>100 feet	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
		BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
		Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

⁽¹⁾ Or other test methods approved by the division

- ⁽²⁾ Numerical limits or natural background level, whichever is greater (19.15.17.13 NMAC-Ro, 19.15.17.13 NMAC 3/28/2013)
- 8. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.17.13.C.3b
- 9. 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 re-contoured to match the native grade and prevent ponding.

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.
- 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.

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

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