District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

| Pit, Below-Grade Tank, or | | | | |
|---|--|--|--|--|
| Proposed Alternative Method Permit or Closure Plan Application | | | | |
| 12074 Type of action: Below grade tank registration 12074 Permit of a pit or proposed alternative method 12074 Closure of a pit, below-grade tank, or proposed alternative method 29-31200 Modification to an existing permit/or registration | | | | |
| Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method | | | | |
| Arnewice Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. | | | | |
| Operator: <u>WPX Energy Production, LLC</u> OGRID #: <u>120782</u> | | | | |
| Address: PO Box 640/721 S Main Aztec, NM 87410 | | | | |
| Facility or well name: Chaco 2306-06L #178H & Chaco 2306-06L #179H | | | | |
| API Number: 30-039-31200 & 30-039-31190 OCD Permit Number: 11769 | | | | |
| U/L or Qtr/Qtr Section6 Township 23N Range6W County: Rio Arriba | | | | |
| Center of Proposed Design: Latitude <u>36.25164N</u> Longitude <u>-107.51715W</u> NAD: 1927 X 1983 | | | | |
| 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 | | | | |
| Liner Seams: Welded Factory Other Volume: 16,029 bbl Dimensions: L_30' x W_200' x D_15' 3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: JUL 9 0 2014 Tank Construction material: Secondary containment with look detection | | | | |
| 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 | | | | |
| <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | | | | |
| 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specifyAs per BLM specifications | | | | |

Oil Conservation Division

7.

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

Screen Netting Other_

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

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

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

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

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

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

| General siting | |
|---|--------------------|
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; ☑ Data obtained from nearby wells | ☐ Yes ⊠ No ☐ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ⊠ No ☐ 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 | 🗌 Yes 🛛 No |
| Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🛛 No |

| • ä | | | | |
|--|--------------|--|--|--|
| 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 | | | |
| <u>Permanent Pit or Multi-Well Fluid Management Pit</u> | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa | | | | |
| lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes 🗌 No | | | |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. | | | | |
| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| 10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. 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 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 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: <u>30-039-31200 & 30-039-31190</u> or Permit Number: <u>11769</u> | | | | |
| II. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | 15.17.9 NMAC | | | |
| | | | | |

| 12. <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i> | documents are | | | |
|--|-----------------------------------|--|--|--|
| attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Remergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Errosion Control Plan Closure Plan - based upon the appropriate requirements 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: Drilling Completion Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Management Pit Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method | 🗌 Multi-well Fluid | | | |
| ^{14.} 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. | ce material are lease refer to | | | |
| 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 | | | | |
| 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 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 | | | | |
| 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 | | | |

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|---|---|
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the prop | posed site 🗌 Yes 🛛 No |
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | 🗌 Yes 🛛 No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM C Society; Topographic map | Geological 📋 Yes 🛛 No |
| Within a 100-year floodplain. - FEMA map | 🗌 Yes 🛛 No |
| Instructions: Each of the following items must be attached to 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 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | K of 19.15.17.11 NMAC irements of 19.15.17.11 NMAC |
| 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my know Name (Print): Mark Heil Signature: Date: 7/29/2014 | |
| e-mail address: mark.heil@wpxenergy.com Telephone:505-333-1806 | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see at OCD Representative Signature: OCD Representative Signature: Approval Depresentative Signature: Approval Depresentative Signature: Title: Compliance OCD Permit Number: | ttachment) |
| ^{19.} <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 a The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: | |
| 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. | oval (Closed-loop systems only) |
| 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report 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 | port. 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 | |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |

WPX Energy Production, LLC San Juan Basin: New Mexico Assets Modification of Chaco 2306-06L 178H & Chaco 2306-06L 179H Temporary Pit In-place Closure Plan (Groundwater over 100 feet below bottom of pit liner)

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 CONS. DIV DIST. 3 the closure requirements prior to rule amendments adopted on lune 28th 2013 the closure requirements prior to rule amendments adopted on June 28th, 2013. AUG 07 2014

Original Closure Plan:

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

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

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

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

| _ | | Table I | |
|--|-------------|--|--------------|
| | | ow-Grade Tanks, Drying Pads Associate Pits where Contents are Removed | đ with |
| Depth below bottom of pit to groundwater less than 10,000 mg/l TDS | Constituent | Method* | Limit** |
| | Chloride | EPA 300.0 | 600 mg/kg |
| ≤50 feet | ТРН | EPA SW-846 Method 418.1 | 100 mg/kg |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method 8021B or 8015M | 10 mg/kg |
| | Chloride | EPA 300.0 | 10,000 mg/kg |
| 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 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 |
| - | Benzene | EPA SW-846 Method 8021B or 8015M | 10 mg/kg |

The following criteria were used for the original closure plan of the Chaco 2306-06L 178H & Chaco 2306-06L 179H, Table1 and Table 2:

*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 | Constituent | ice in Temporary Pits Method* | Limit** |
| bit to groundwater less | Constituent | Method | Linin |
| han 10,000 mg/l TDS | | | |
| | Chloride | EPA Method 300.0 | 20,000 mg/kg |
| | ТРН | EPA SW-846 | 100 mg/kg |
| 25-50 feet | | Method 418.1 | |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method | 10 mg/kg |
| | | 8021B or 8015M | |
| | Chloride | EPA Method 300.0 | 40,000 mg/kg |
| | ТРН | EPA SW-846 | 2,500 mg/kg |
| 51-100 feet | | Method 418.1 | |
| | GRO+DRO | EPA SW-846 | 1,000 mg/kg |
| | | Method 8015M | |
| | BTEX | EPA SW-846 Method | 50 mg/kg |
| | Benzene | 8021B or 8260B EPA SW-846 Method | 10 mg/kg |
| | Denzene | 8021B or 8015M | TO IIIg/Kg |
| | Chloride | EPA Method 300.0 | 80,000 mg/kg |
| | ТРН | EPA SW-846 | 2 500 |
| > 100 feet | Irn | Method 418.1 | 2,500 mg/kg |
| | GRO+DRO | EPA SW-846 | 1,000 mg/kg |
| | | Method 8015M | |
| | 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:

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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).

| | T | able I | |
|--|-------------|-------------------------------------|-------------|
| | | v-Grade Tanks, Drying Pads A | |
| | | its where Contents are Remove | |
| 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 | 500 mg/kg |
| > 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 |

*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: 16699 Samples Received: 3/5/2014 8:40:00AM Job Number: 04108-0006 Work Order: P403014 Project Name/Location: Chaco 2306 GL #178H/#179H

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 3/12/14 2:18 pm

Date: 3/12/14

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.

| 5796 US Highway 64, Farmington, HM 87401 | Ph (505) 632-0615 | Fx (505) 632-1865 | e envintech inclome |
|---|-------------------|-------------------|-----------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | aboratory@envirotech3nc.com |

Page 1 of 10



| WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358 | 8 Project Number: 04108-0006 | | r: 04108-0006 | | Reported: 12 Mar-14 14:43 |
|--|------------------------------|-----------|---------------|----------|------------------------------|
| | Analyic | al Report | t for Samples | | |
| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
| Cuttings Pit | P403014-01A | Soil | 02/28/14 | 03/05/14 | Glass Jar, 4 oz. |

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| 5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fx | x (505) 632-1865 | envirote dialized on a |
|---|----------------------|------------------|----------------------------------|
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l≩:Page 2 of 10 ≤



Surrogate: 1,3-Dichlorobenzene

Cation/Anion Analysis

Chloride

Nonhalogenated Organics by 8015

Total Petroleum Hydrocarbons by 418.1 Total Petroleum Hydrocarbons

Gasoline Range Organics (C6-C10)

Diesel Range Organies (C10-C28)

| WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358 | • | Name: Number: Manager: | 0410 | o 2306 GL # 8-0006 ly Shaw | #178 H/#17 91 | ł | | Reported: 12-Mar-14 14 | :43 |
|--|--------|------------------------------|------------------------|----------------------------------|----------------------|----------|----------|---------------------------|-------|
| | | | ttings Pl 14-01 (So | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| o,m-Xylene | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |
| Surrogale: Bromochlorobenzene | | 102 % | 80 | -120 | 1411003 | 03/10/14 | 03/11/14 | EPA 8021B | |

80-120

80-120

mg/kg 1

mg/kg 1

mg/kg 1

mģ∕kg 1

1411003

1411003

1411002

1411012

1411001

03/10/14

03/10/14

03/10/14

03/12/14

03/10/14

EPA 8021B

ÉPA 8015D

EPA 8015D

EPA 418.1

EPA 300.0

03/11/14

03/11/14

03/11/14

03/12/14

03/10/14

102 %

4950%

5.00

29.9

20.0

9.93

ŇD

ND

24.0

48.1

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Apage 3 of 10

| P | envirotech | |
|---|-----------------------|--|
| C | Analytical Laboratory | |

| WPX Energy, Inc. | Project Name: | Chaco 2306 GL #178H/#179H | |
|----------------------|------------------|---------------------------|-----------------|
| PO Box 21218 | Project Number: | 04108-0006 | Reported: |
| Tulsa OK, 74121-1358 | Project Manager: | Buddy Shaw | 12-Mar-14 14:43 |
| | | | |

Volatile Organics by EPA 8021 - Quality Control

| Envirotech A | Analytical | Laboratory |
|--------------|------------|------------|
|--------------|------------|------------|

| Analyté | Result | Reporting Limit | Units | Spikë Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|--------------------|-------|----------------|------------------|-----------|----------------|-----|--------------|-------|
| Batch 1411003 - Purge and Trap EPA | 5030A. | | | | | | | | | |
| Blank (1411003-BLK1) | | | | Prepared: 1 | 0-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Benzene | ND | 0.05 | mg/kg | | | | - | | | |
| Foluene | ND | 0.05 | • | | | | | | | |
| Ethylbenzene | ND | 0.05 | • | | | | | | | |
| o.m-Xylene | ND | 0.05 | • | | | | | | | |
| o-Xylène | ND | 0.05 | • | | | | | | | |
| Fotal Xylenes | ND | 0.05 | · | | | | | | | |
| Total BTEX | ND | 0.05 | • | | | | | | | |
| Surrogate: 1,3-Dichlorobeńzene | 53.2 | | ug/L | 1.00 | | NR | 80-12Ò | | | |
| Surrogate: Bromochloroberzene | 54.0 | | n | 50.0 | | 108 | 80-120 | | | |
| Duplicate (1411003-DUP1) | Seu | rce: P403011- | 01 | Prepared: I | 0-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Benzene | ND | 0.05 | mg/kg | | ND | | | | 30 | |
| Foluene | ND | 0.05 | • | | ND | | | | 30 | |
| Ethylbenzene | ND | 0.05 | • | | ND | | | | 30 | |
| p.m-Xylene | ND | 0.05 | · | | ND | | | | 30 | |
| -Xylene | ND, | 0.05 | • | | ND | | | | 30 | |
| Surrogate: 1,3-Dichlorobenzene | 52.0 | | ug/L | 1.00 | | NR | 80-120 | | | |
| Surrogate: Bromochlorobenzene | 54.6 | | n | 50.0 | | 109 | 80-120 | | | |
| Matrix Spike (1411003-MS1) | Sou | rce: P403011- | 01 | Preparéd: 1 | 0-Mar-14 | Analyzed: | 1.1-Mar-14 | | | |
| Benzene | 51.7 | | ug/L | 50.0 | ND | 103 | 39-150 | | | |
| Foluene | 51.2 | | • | 50.0 | ND | 102 | 46-148 | | | |
| Ethylbenzene | 51.2 | | • | 50.0 | 1D | 102 | 32-160 | | | |
| o,m-Xylene | 103 | | · | 100 | ND | 103 | 46-148 | | | |
| -Xylene | 51.9 | | • | 50.0 | ND | 104 | 46-148 | | | |
| Surrogate: 1,3-Dichlorobenzene | 52:1 | | " | 1.00 | | NR | 80-120 | | | |
| Surrogate: Bromochloroberzene | 54.6 | | " | 50.0 | | 109 | 80-120 | | | |

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| WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358 | Proj | eet Name: eet Number: eet Manager: | 0- | haco 2306 GI 1108-0006 uddy Shaw | . #178H/#1 | 79H | | | Report 12-Mar-14 | |
|--|-----------|--|----------|--|------------------|-----------|----------------|-----|---------------------|-------|
| | Nonhaloge | enated Org | anics by | 7 8015 - Qi | nality Co | ntrol | | | | |
| | En | virotech A | Analyti | cal Labor | atory | | | | | |
| Analyté | Result | Reporting Limit | Units | Spikė Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 1411002 - DRO Extraction EF | A 3550C | | | | | | | | | |
| Blank (1411002-BLK1) | | | | Prépared: 1 | 0-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Diesel Range Organics (C10-C28) | 'ND | 29.9 | mg/kg | | | | | | | |
| Duplicate (1411002-DUP1) | Śœu | ce: P403011- | 01 | Prepared: 1 | 0-Mar-14 | Analyzed | 11-Mar-14 | | | |
| Diesel Range Organics (C10-C28) | ND | 29.9 | mg/kg | | ND | | | | 30 | |
| | - | ce: P403011- | 0.1 | Dranaria de 1 | 0 Mar 14 | Analyzed: | 11-Mar-14 | | | |
| Matrix Spike (1411002-MS1) | Sou | ce: 1403011- | 01 | rieparea. i | 0-1/121-14 | malyzeu. | 11-14 | | | |

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| Tulsa OK, 74121-1358 | Project Manager: | Buddy Shaw | 12-Mar-14 14:43 |
|----------------------|------------------|---------------------------|-----------------|
| WPX Energy, Inc. | Project Name: | Chaco 2306 GL #178H/#179H | Reported: |
| PO Box 21218 | Project Number: | 04108-0006 | |

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 1411003 - Purge and Trap EPA 50304 | A | · · · · | | | | | | | | |
| Blank (1411003-BLK1) | | | | Prepared: | 10-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Gasoline Range Organics (C6-C10) | ND | 5.00 | mg/kg | | | | | | | |
| Duplicate (1411003-DUP1) | Sour | ce: P403011- | 01 | Prepared: 1 | 10-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Gasoline Range Organics (C5-C10) | ND | 4.98 | mg∕kg | | ND | | | | 30 | |
| Matrix Spike (1411003-MS1) | Sour | ce: P403011- | 01 | Prepared: 1 | 10-Mar-14 | Analyzed: | 11-Mar-14 | | | |
| Gasoline Range Organics (C6-C10) | 0.49 | | mg/L | 0,450 | ND | 108 | 75-125 | | | |
| | | | | | | | | | | |

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| WPX Energy, Inc. | Project Name: | Chaco 2306 GL #178H/#179H | |
|----------------------|------------------|---------------------------|-----------------|
| PO Box 21218 | Project Number: | 04108-0006 | Reparted: |
| Tulsa OK, 74121-1358 | Project Manager: | Buddy Shaw | 12-Mar-14 14:43 |

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

| | Reporting | | Spike | Source | | %REC | | RPD | | | | |
|--------|------------------------------|---|---|---|--|---|--|--|--|--|--|--|
| Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | | | |
| | | | | | | | | | | | | |
| | | | Prepared & | Analyzed: | 12-Mar-14 | | | | | | | |
| ų́л | 20.0 | mg/kg | | | | | | | | | | |
| Sourc | e: P403014- | 01 | Prepared & | Analyzed: | 12-Mar-14 | | | • | | | | |
| 28.0 | , 20.0 | mg/kg | | 24.0 | | | 15.5 | 30 | | | | |
| Sourc | e: P403014- | 01 | Prepared & | Analyzed: | 12-Mar-14 | | | | | | | |
| '1840 | 20,0 | mg/kg | 2000 | 24.0 | 91.0 | 80-120 | | | | | | |
| | ND Sourc 28.0 Sourc | Result Limit ND 20.0 Source: P403014 28.0 28.0 20.0 Source: P403014 | Result Limit Units ND 20.0 mg/kg Source: P403014-01 28.0 20.0 mg/kg Source: P403014-01 20.0 | Result Limit Units Level Prepared & ND 20.0 mg/kg Source: P403014-01 Prepared & 28.0 20.0 mg/kg Source: P403014-01 Prepared & | Result Limit Units Level Result Prepared & Analyzed: ND 20.0 mg/kg Source: P403014-01 Prepared & Analyzed: 28.0 20.0 mg/kg Source: P403014-01 Prepared & Analyzed: | Result Limit Units Level Result %REC Prepared & Analyzed: 12-Mar-14 ND 20.0 mg/kg Source: P403014-01 Prepared & Analyzed: 12-Mar-14 28.0 20.0 mg/kg Source: P403014-01 Prepared & Analyzed: 12-Mar-14 28.0 20.0 mg/kg Source: P403014-01 Prepared & Analyzed: 12-Mar-14 | Result Limit Units Level Result %REC Limits Prepared & Analyzed: 12-Mar-14 ND 20.0 mg/kg | Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 12-Mar-14 ND 20.0 mg/kg | Result Limit Uaits Level Result %REC Limits RPD Limit Prepared & Analyzed: 12-Mar-14 ND 20.0 mg/kg | | | |

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| WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358 | Project Name: Chaco 2306 GL #178H/#179H Project Number: 04108-0006 Project Manager: Buddy Shaw | | | | | | | | Repor 12-Mar-1 | |
|--|--|----------------------------|-----------|----------------|------------------|-----------|----------------|------|-------------------|-------|
| · · · · · · · · · · · · · · · · · · · | | lon/Anion A nvirotech A | • | | | | | | | |
| | | | sinely ti | | | | WDEG | | DDD | • • |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Nótes |
| Batch 1411001 - Anion Extraction EPA 300.0 | | • | | | | | | | | |
| Blank (1411001-BLK1) | | | | Prepared & | t Analyzed | 10-Mar-14 | 1 | | | |
| Chloride | ND | 9.99 | mg/kg | | | | | | | |
| LCS (1411001-BS1) | | | | Prepared & | z Analyzed | 10-Mar-14 | | | | |
| Chloride | 478 | 9.97 | mg/kg | 499 | | 95.9 | 90-110 | | | |
| Matrix Spike (1411001-MS1) | Soù | rce: P403011- | 01 | Prepared & | z. Analyzed | 10-Mar-14 | ļ | | | |
| Chloride | 507 | 9.93 | mg/kg | 497 | ND | 102 | 80-120 | | | |
| Matrix Spike Dup (1411001-MSD1) | Sou | rce: P403011- | 01 | Prepared 8 | د Analyzed | 10-Mar-14 | i | | | |
| Chloride | 499 | 9.96 | mg/kg | 498 | ND | 100 | 80-120 | 1,58 | 20 | |

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| | | | |



| 1 | WPX Energy, Inc. | | Project Name: | Chaco 2306 GL #178H/#179H | |
|---|----------------------|---|------------------|---------------------------|-----------------|
| 1 | O Box 21218 | • | Project Number: | 04108-0006 | Reported: |
| | fulsa OK, 74121-1358 | | Project Manager: | Buddy Shaw | 12-Mar-14 14:43 |

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported

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- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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|---|-------------------------------------|--|
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| | | Cŀ | | FC | US | тс | D | Y | R | E(| CC | DP | 30 |) | | | 1 | 66 | 99 |) | | |
|--|----------------|----------------|-----------------------------|----------------|--------------------|---------------|----------------|------------|-------------------|--------------------|-------------------|---------------|----------------|--------|---------------|----------------|-------------|----------|--------|-----------------|--------------|------------------------------|
| Client: WPX Erroro | J | <u>Гр.</u> | oject Name / Locatio | on: 30G | 6L | 179 178/ # | H Pa /251 | :{{ ₩- | lew | 1 | ¥ 1 | 4 | | | /SIS | / PAI | RAME | ETER | s | | | |
| Email results to: <u>buildy</u> , <u>shaw</u> @ wr Client Phone No.: <u>Sas</u> 333 -/2 |) Henergy | .com Si | moler Name | | | | | | | BTEX (Method 8021) | 8260) | | _ | | ٩ | 5 | | | | | | |
| Client Phone No.: .502 333 -/2 | 878 | CI | Glesen ient No.; 0410 | 8-00 | 66 | | | | TPH (Method 8015) | (Metho | VOC (Method 8260) | RCRA 8 Metals | / Anior | | TCLP with H/P | CO Table 910-1 | 118.1) | BIDE | | | | Sample Cool Sample Intact |
| Sample No./ Identification | Sample Date | Sample Time | Lab No. | | Volume ntainers | Pi HINO3 | eservat HCi | ive | TPH (A | BTEX | voc (I | RCRA | Cation / Anion | RCI | TCLP | CO Tal | TPH (418.1) | CHLORIDE | | | | Sample Cool Sample Intac |
| Cuttings pit | 3/28/14 | 1.43 | P403014-01 | 1 | 402 | | | | V | 1 | | | | | | | 1 | / | | | | XX |
| | | | | | | | | | | | | | | | | | | · · | | _ | | |
| | | | | | | | | | | | | | | | | | | | | + | | |
| <u>.</u> | | | | | | | | | | | | | | | | | | | | | | _ |
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| | | | | | | | | | | | | | | | | | | | | | | |
| | <u> </u> | | | | | _ | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | . \$ | 161 | <u> </u> | Date 3/5-/1 | Time 8.40 | Rece | ived k | l y: (S | ignat | ure) | L | ~* | | l ~ | | L | | L | | | Date 11.4 | Time (;4°C |
| Relinquished by: (Signature) | | | | | ~ | Rece | | | | | | -0 |) | | | | | | | <u></u> | ق | |
| Sample Matrix Soll/X Solid Sludge | Aqueous |] Other [| <u>]</u> | | | | | | | | | | | | | | | | | - | | |
| Sample(s) dropped off after | | | E | | env And | | | | | | | | | 1.2 | | | | | | | | |
| 5795 US Highway 6 | 4 • Farming | ton, NM 874 | 01 • 505-632-0615 • 1 | ihree Spr | ing s • 65 | Merca | djo Str | eet. S | uite | 115. D | uran | go, Ç | 0 81 | 301 • | labo | rator | /@en | virote | ch-Inc | Pa Di juan n | age 1 | 0 of 10 |

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