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

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.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: WPX Energy Production, LLC OGRID #: 120782 Address: PO Box 640/721 S Main Aztec, NM 87410
Facility or well name: Rosa Unit #77C API Number: 30-039-29982 OCD Permit Number: U/L or Qtr/Qtr P Section 33 Township 31N Range 05W County: Rio Arriba Center of Proposed Design: Latitude N36.850532 Longitude W107.360705 NAD: 1927 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 Workover Workover Dermanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other String-Reinforced Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12' Thickness 20 mil Thickness
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:bbl Type of fluid: Tank Construction material: 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.
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

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Alternate. Please specify As per BLM specifications

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)	
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. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. 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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☑ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☒ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☒ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	在影響形 別
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No								
Temporary Pit Non-low chloride drilling fluid									
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site Within 200 feet from a permanent residence, school begainst institution or shurch in existence at the time of initial application.									
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 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									
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 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. and 19.15.17.13 NMAC	NMAC								
☐ Previously Approved Design (attach copy of design) API Number: <u>30-039-29982</u> or Permit Number: <u></u>									
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:									

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are						
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 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							
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/Completion Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid 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							
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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							
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. I 19.15.17.10 NMAC for guidance.	rce material are Please refer to						
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA						
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ Yes ⋈ N 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 NA							
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
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	☐ Yes ☑ No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance							

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 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.	☐ Yes ⊠ No
- FEMA 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 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. 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 cann 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
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☑ Closure Plan (only) ☐ OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 0211	712016
Title: Environmental Specalist OCD Permit Number:	
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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	complete this
☐ Closure Completion Date: November 3, 20	15
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-log If different from approved plan, please explain.	op systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in 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	dicate, by a check

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this clos belief. I also certify that the closure complies with all applicable closure requ	
Name (Print): Deborah Watson	Title: Environmental Specialist
Signature: Pern Wate	Date:February 11, 2016
e-mail address: deborah.watson@wpxenergy.com	Telephone:505-333-1880/505-386-9693

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

Temporary Pit In-place Closure Report Drilling/Completion and Workover (Groundwater >100 feet below bottom of pit liner)

Well: Rosa Unit 77C API No: 30-039-29982

Location: P-S33-T31N-R05W, NMPM

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general in-place closure requirements of temporary pits on WPX Energy Production, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workovers of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

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

- · Details on Capping and Covering, where applicable
- Division Form C-105: WELL COMPLETION OR RECOMPLETION REPORT AND LOG
- Plot Plan (Pit Diagram)
- Inspection Log
- Notification Documentation
- Sampling Results
- Copy of Deed Notice filed with the County Clerk (format to meet County requirements)
 A deed notice is not required on state, federal or tribal land according to NMOCD FAQ dated October 30, 2008 and posted on the NMOCD website.

General Plan Requirements:

All free standing liquids will be removed from the pit at the start of the closure process. Liquids will be removed in a manner that the
appropriate District Office approves including; recycled, reused, reclaimed, evaporated, and/or disposed of in a Division-approved
facility. Once all free liquids are removed, the sludge will be stabilized by one of the following methods depending on equipment
availability: blending with clean stockpiled soils or dewatering using a Bowl Decanter Centrifuge then blending with clean stockpiles
soils.

To the extent practical, free liquids were pulled from the reserve pit following the completion rigoff. Haul date was October 1, 2015 to Basin Disposal San Juan County, NM-01-0005 Sec 3, T29N, 11W.

The preferred method of closure for all temporary pits will be on-site closure by in-place burial, provided all the criteria in 19.15.17.13.B are met.

On-site burial plan for this location was approved by the Aztec District Office on October 23, 2008.

The surface owner shall be notified of WPX's proposed closure plan using a means that provides proof of notice (i.e. certified mail/return receipt requested)

WPX notified the SMA of its intent to use a temporary pit and onsite burial in the Surface Use Plan in the well APD. The SMA was notified by email see attached. No return receipt required per BLM:FFO/NMOCD MOU dated 5/4/09.

Within six months of the "rig-off" status occurring WPX will ensure that the temporary pit is covered, recontoured and reseeding in progress.

Drill rig-off (July 26, 2015). Completion Rig-off (September 24, 2015) Pit covered (November 12, 2015). Pit area along with unused portions of well pad to be interim reclaimed in accordance with Surface Management Agency requirements in APD-COAs and per BLM:FFO/NMOCD MOU dated 5/4/09. Seeding and contouring completed at the site on November 12, 2015.

- 4. 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)

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The Aztec District Office of NMOCD was notified by email using a format acceptable to the District. See attached.

5. 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.

The liner to the temporary pit was removed above the "mud level" once stabilized. Removal of the liner consisted of manually cutting the liner and removing all remaining liner material above the "mud level" including the anchor material. All excessive liner was disposed of at the Bondad Landfill operated by WCA.

6. Solidification of the remaining pit contents shall be achieved by mixing non-waste containing, earthen material. The solidification process will be accomplished use a combination of natural drying and mechanical mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed safe and stable. The mixing ratio shall not exceed 3 parts non-waste to 1 part pit contents.

Following removal of free liquids, the pit contents were mixed with non-waste containing, earthen material in order to achieve appropriate solidification and a consistency that was deemed safe and stable. The solidification process was accomplished using a combination of natural drying, and mechanically mixing using a dozer and trackhoe. The mixing ration was approximately 2.5-3 parts native soil to 1 part pit contents. Solidification was completed on November 2, 2015.

7. A five-point composite sample will be taken of the pit using sampling tools and all samples tested per 19.15.17.13(B)(1)(b) NMAC. In the event that the criteria are not met (See Table 1), all contents will be handled per 19.15.17.13(B)(1)(a) (i.e. dig and haul to a Division-approved facility). Approval to haul will be requested of the Aztec District office prior to initiation.

A five-point composite sampling was taken of the pit area using sampling tools and the sample was tested per 19.15.17.13(B)(1)(b) NMAC. The composite sample was collected on November 2, 2015. Mr. Jonathan Kelly, NMOCD, was present during sampling. Results are presented in Table 1 and the laboratory report is attached.

Table 1: Closure Criteria for Temporary Pits in Non-sensitive Areas

Components	Testing Methods	Limits (mg/kg)	11/2/15 Pit (mg/kg)	
Benzene	EPA SW-846 Method 8021B or 8260B	0.2	0.044	
BTEX	EPA SW-846 Method 8021B or 8260B	50	0.374	
TPH	EPA SW-846 Method 8015M (Full Range)	2500	25.1	
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	500	25.1	
Chlorides	EPA SW-846 Method 300.1	500	54	

8. Upon completion of solidification and testing, the pit area will be backfilled with non-waste earthen material compacted to native conditions to enable effective revegetation for successful evapotranspiration. A minimum of four feet of cover including replacement of one foot of suitable material to establish vegetation, or the background thickness of topsoil, whichever is greater.

Upon completion of solidification and testing, the pit area was backfilled with non-waste earthen material compacted to native conditions. A minimum of four feet of cover to the extent practical was achieved and the cover included just over a foot of topsoil suitable to establish vegetation.

9. Following cover, the site will be recontoured to meet the Surface Management Agency or surface owner requirements. Re-contouring will attempt to match fit, shape, line form, and texture of the surrounding geography. Re-shaping will include drainage control, prevent ponding, and minimize erosion. Natural drainages will be unimpeded and stormwater Best Management Practices (BMPs) will be used to aid in soil stabilization and protection surface water quality.

Following cover, WPX reestablished drainage and contours to approximately match previous topography meeting the Conditions of Approval in the APD and the direction offered by a BLM/USFS inspector. Contouring completed on November 12, 2015.

10. Notification will be sent to the Aztec District office when the reclaimed area is seeded.

WPX will comply with Surface Management Agency reseeding requirements in the COAs of the APD for the referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.

11. WPX shall seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative

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growth occurs. Note: WPX assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) or Land owner as part of a surface use agreement or APD are Division-approved methods unless notified by the Division of their unacceptability.

WPX will comply with Surface Management Agency reseeding requirements in the COAs of the APD for the referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.

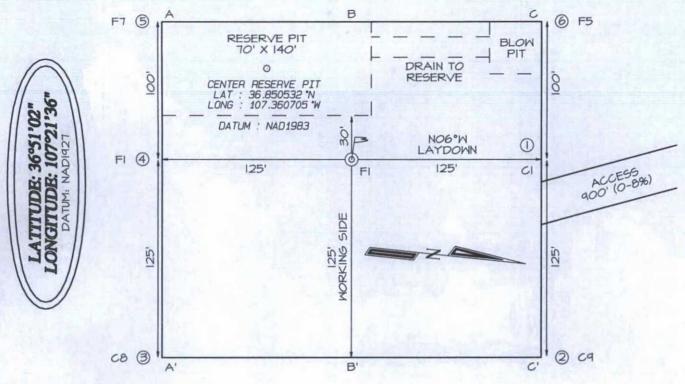
12. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the on site burial upon the abandonment of all wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the on site burial of the temporary pit. The plate will be easily removable and a four-foot tall riser will be threaded into the top of the collar marker and welded around the base with the operations information at the time of all wells on the pad abandoned. The information will include Operator Name, Lease Name, Well Name, and number, USTR, and an indicator that the marker is an onsite pit burial location.

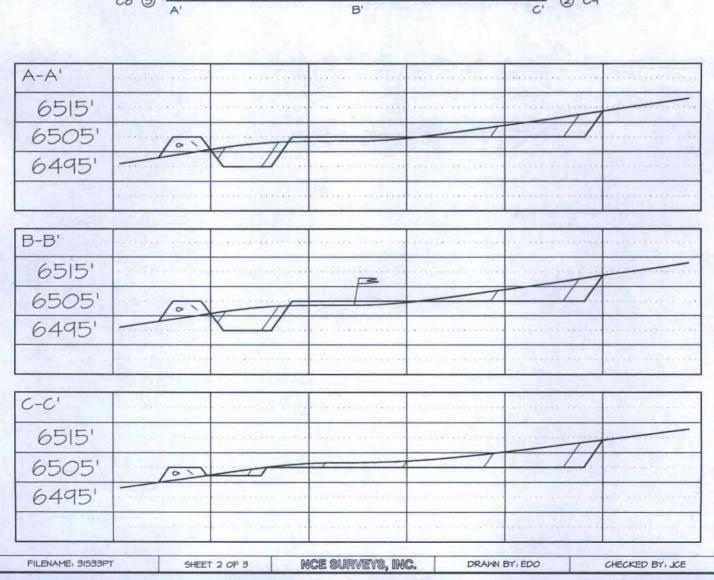
The temporary pit was located with a steel marker meeting the above listed specifications. The marker has the following information welded for future reference WPX ENERGY S33-T31N-R05W-P, "Pit Burial" (photo attached). Steel marker set (November 12, 2015).

Submit To Approp Two Copies	oriate Distric	t Office		State of New Mexico						Form C-105				
District I 1625 N. French D	r., Hobbs, Ni	M 88240		Energy, Minerals and Natural Resources					Revised August 1, 2011 1. WELL API NO.					
District II 811 S. First St., A	rtesia, NM 8	8210		Oil Conservation Division						30-039-29982				
District III 1000 Rio Brazos F	Rd., Aztec, N	M 87410		1220 South St. Francis Dr.						2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN				
	St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505							3. State O	3. State Oil & Gas Lease No.					
		LETION (OR RE	COMPL	ETION RE	EPO	RT AND	LOG				MARKE		
4. Reason for filing:							5. Lease Na Rosa Unit	ame or l	Jnit Agree	ment Name	310)20			
C-144 CLO 33; attach this a Type of Com	SURE AT	TACHMEN	Γ (Fill in	boxes #1 th	rough #9, #15 I	Date Ri	g Released	and #32 and/o	6. Well Nu 77C	mber:				
NEW	WELL [] WORKOVI	ER 🗆 DE	EEPENING	□PLUGBAG	CK 🗆	DIFFERE	NT RESERVO		R				
8. Name of Oper WPX Energy Pro		LC							9. OGRID 120782					
10. Address of C PO Box 640/721	perator		w Mexico	87410					11. Pool na	me or W	ildcat			
12.Location	Unit Ltr	Section	To	ownship	Range	Lot		Feet from the	e N/S Line	Fee	t from the	E/W Line	County	
Surface:										1 5				
вн:								St. Inc.		J. J.				
13. Date Spudde		nte T.D. Reach		15. Date Ri 7/26/15					red (Ready to Pr		R	. Elevations (I Γ, GR, etc.)		
18. Total Measu					ck Measured D	epth	20.	Was Directio	nal Survey Mad	de?	21. Type	e Electric and	Other Logs Ru	
22. Producing In	terval(s), o	f this complet	tion - Top,	, Bottom, N	ame						-17			
23.	7 423		K.a.	CAS	SING REC	COR								
CASING S	IZE	WEIGHT	LB./FT.		DEPTH SET		HC	LE SIZE	CEMENT	ING RE	CORD	AMOUN	T PULLED	
		10000							-					
							1.78							
	T _{He} lde					115	10:55							
24.				LIN	ER RECORD				25.	TURE	NG RECO	ORD		
SIZE	TOP		ВОТТО		SACKS CEN		SCREEN		SIZE		EPTH SET		KER SET	
211													+	
26. Perforation	n record (in	terval, size, a	nd number	r)		1 11	27. AC	ID, SHOT, F	RACTURE, O	CEME	NT, SQUE	EEZE, ETC.		
								INTERVAL				TERIAL USE)	
								1 32 6						
10						DD	ODUC"	TION				Ingle:		
28. Date First Produ	ction	P	roduction	Method (FI	lowing, gas lift,				Well Sta	tus (Pro	d. or Shut-	in)	119	
Date of Test	Hours	Tested	Choke S	Size	Prod'n For Test Period		Oil - Bbl		Gas - MCF	l w	ater - Bbl.	Gas	Oil Ratio	
Flow Tubing Press.	Casing	g Pressure	Calcula Hour R		Oil - Bbl.		Gas	- MCF	Water - Bbl.		Oil Grav	vity - API - (C	orr.)	
29. Disposition of	of Gas (Sold	d, used for fue	el, vented,	etc.)						30.	Test Witnes	ssed By		
31. List Attachm														
	Contract of the Contract of th				ne location of th						3.774		The Head	
33. If an on-site	burial was	used at the we	ell, report	the exact lo							L ALC		TO SEL	
I handhu aart	ifi, that th	a informat	ion also	un on had	Latitude N36.	850532	Longitu	de W107.360	705 NAD 198	33	knowles	lan and hali	of	
I hereby certi Signature					Printed Name Debo				te to the best Environmen			Date: 2/1		
) gnature	Mh	h Wa	iln	,	Traine Deoc	лан V	aison	Title	Livironnien	nai Spe	cialist	Date. Z/1	1710	
E-mail Addre	ess debor	ah.watson	a wpxen	ergy.com	1									

District I PO Box 1980, Hobbs, NM 88241-1980 Form C-102 State of New Mexico Revised February 21, 1994 Instructions on back Energy, Minerals & Natural Resources Department District II PO Drawer DD. Artesia, NM 88211-0719 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 2088 District III 1000 Rio Brazos Rd. Aztec. NM 87410 Santa Fe. NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name 'API Number Pool Code 72319 BLANCO MESAVERDE Well Number Property Code Property Name 17033 ROSA UNIT 77C OGRID No. *Operator Name *Elevation 120782 WILLIAMS PRODUCTION COMPANY 6504 10 Surface Location UL or lot no. Section Lot Idn Feet from the North/South line Feet from the East/West line RIO SOUTH 33 31N 5W 660 540 EAST ARRIBA 11 Bottom Hole Location If Different From Surface UL pr lot no. Sect ion Lot Ion Feet from the North/South line Feet from the County 12 Dedicated Acres 13 Joint or Infill ⁵⁴ Consolidation Code 15 Order No. 320.0 Acres - (S/2) NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION " OPERATOR CERTIFICATION 5286.60 15 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Printed Name Title Date "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field rotes of actual surveys made by me or under your priston, and that the same is true and correct to the best of my belief 52B0.00 Survey Date: OCTOBER 5, 2005 Signature and Seal of Professional Surveyor SEON C. EDWARD SEN MEXICO LEASE 15269 SF-078773 SAME ADFESSION! DWARDS 5280.00 Certificate Number 15269

WILLIAMS PRODUCTION COMPANY ROSA UNIT #77C 660' FSL & 540' FEL, SECTION 33, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6504'







WPX Energy Production San Juan Basin Operations

	Temporary Pit Inspection										
Well Name:	Rosa Unit 77C			API:	30-039-299						
Pit Type:	Drilling 🗸	Workover	Cavitation		Inspection:	Weekly					
			-6-0								
Date	Inspector Name	Liner	Properly fenced	Slopes intact	Adequate freeboard	free oil or sheen present	Comments				
8/4/2015	D. Bays	Y✓ N□	Y☑ N□	y ☑ N □	y☑ N□	Y□ N☑					
8/11/2015	D. Bays	YV N	Y☑ N□	y ☑ N □	Y N D	y□ N☑					
8/21/2015	D. Bays	YV N	Y☑ N□	y ☑ N □	Y☑ N□	Y N Z					
8/28/2015	D.Bays	Y✓ N□	Y☑ N□	Y V N	Y☑ N□	y□ N☑					
9/4/2015	D. Bays	YV N	Y☑ N□	y ☑ N □	Y☑ N□	Y N Z					
9/11/2015	D. Watson	Y✓ N□	Y☑ N□	y ☑ N □	Y☑ N□	y□ N☑					
9/17/2015	D.Bays	Y✓ N□	Y☑ N□	Y IN I	Y☑ N□	Y N Z					
9/24/2015	D. Watson	YV N	Y✓ N□	Y V N	YV N	Y N Z					
10/1/2015	D. Watson	YV N	Y✓ N□	Y V N	Y☑ N□	y□ N⊄					
10/12/2015	D. Watson	YV N	Y√ N□	Y V N	YV N	Y□ N☑					
10/22/2015	D. Watson	Y☑ N□	Y☑ N□	Y V N	Y☑ N□	Y□ N☑					
10/28/2015	D. Watson	Y N	YV NU	v I n I	y☑ N□	Y D N V					

Watson, Debbie

From:

Watson, Debbie

Sent:

Monday, October 26, 2015 10:20 PM

To:

Smith, Cory, EMNRD

Subject:

Rosa Unit 77C Pit Closure Notification

Hello Mr. Smith,

This email is to notify you that WPX has rescheduled closure activities for the Rosa Unit 77C. It is anticipated that closure activities will begin Thursday, October 29, 2015.

Operator: WPX Energy Well Name: Rosa Unit 77C API #:30-039-29982

Unit Letter P, Section 33, Township 31N, Range 5W

Rio Arriba County

GPS: N36.85066, W107.36045

Please contact me with any questions.

Have a great day,

Debbie

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



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

 From:
 Microsoft Outlook

 To:
 Smith, Cory, EMNRD

 Subject:
 Relayed: Rosa Unit 77C Pit Closure Notification

 Date:
 Monday, October 26, 2015 10:19:59 PM

 Attachments:
 Rosa Unit 77C Pit Closure Notification.msg

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server: HYPERLINK "mailto:Cory.Smith@state.nm.us"Smith, Cory, EMNRD (Cory.Smith@state.nm.us) Subject: Rosa Unit 77C Pit Closure Notification

Watson, Debbie

From:

Watson, Debbie

Sent:

Monday, October 26, 2015 10:20 PM

To:

jjmiller@fs.fed.us

Subject:

Rosa Unit 77C Pit Closure Notification

Mr. Miller,

This email is to notify you that WPX has rescheduled closure activities for the Rosa Unit 77C. It is anticipated that closure activities will begin Thursday, October 29, 2015.

Operator: WPX Energy Well Name: Rosa Unit 77C API #:30-039-29982

Unit Letter P, Section 33, Township 31N, Range 5W

Rio Arriba County

GPS: N36.85066, W107.36045

Please contact me with any questions.

Have a great day,

Debbie

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



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

From: postmaster@usda.gov
To: jimiller@fs.fed.us

Subject: Delivered: Rosa Unit 77C Pit Closure Notification
Date: Monday, October 26, 2015 10:20:03 PM
Attachments: Rosa Unit 77C Pit Closure Notification.msg

Your message has been delivered to the following recipients: HYPERLINK "mailto:jjmiller@fs.fed.us"jjmiller@fs.fed.us (jjmiller@fs.fed.us) Subject: Rosa Unit 77C Pit Closure Notification



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

November 04, 2015

Debbie Watson WPX Energy 721 S Main Ave Aztec, NM 87410

TEL: (505) 333-1880

FAX

RE: Rosa 77C Reserve Pit OrderNo.: 1511040

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/3/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1511040

Date Reported: 11/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy

Client Sample ID: SC-1

Project: Rosa 77C Reserve Pit

Collection Date: 11/2/2015 11:25:00 AM

Lab ID: 1511040-001

Matrix: MEOH (SOIL)

Received Date: 11/3/2015 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	54	30	mg/Kg	20	11/3/2015 2:35:05 PM	22155
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANIC	S			Analys	t: KJH
Diesel Range Organics (DRO)	19	9.5	mg/Kg	1	11/3/2015 11:32:40 AM	1 22137
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2015 11:32:40 AM	1 22137
Surr: DNOP	104	70-130	%REC	1	11/3/2015 11:32:40 AM	1 22137
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	6.1	3.9	mg/Kg	1	11/3/2015 10:09:17 AN	1 22126
Surr: BFB	104	75.4-113	%REC	1	11/3/2015 10:09:17 AM	1 22126
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	0.044	0.039	mg/Kg	1	11/3/2015 10:09:17 AM	1 22126
Toluene	0.16	0.039	mg/Kg	1	11/3/2015 10:09:17 AM	1 22126
Ethylbenzene	ND	0.039	mg/Kg	1	11/3/2015 10:09:17 AM	1 22126
Xylenes, Total	0.17	0.078	mg/Kg	1	11/3/2015 10:09:17 AM	1 22126
Surr: 4-Bromofluorobenzene	114	80-120	%REC	1	11/3/2015 10:09:17 AN	1 22126

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1511040

04-Nov-15

Client:

WPX Energy

Project:

Rosa 77C Reserve Pit

Sample ID MB-22155

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22155

RunNo: 29992

Prep Date: 11/3/2015 Analysis Date: 11/3/2015

Units: mg/Kg

SeqNo: 913743

Analyte

Result PQL

ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

1.5

Sample ID LCS-22155

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 11/3/2015

Batch ID: 22155 Analysis Date: 11/3/2015 RunNo: 29992 SeqNo: 913744

Units: mg/Kg

110

HighLimit

Analyte

SPK value SPK Ref Val %REC LowLimit

%RPD

Chloride

15.00

Qual

1.5

92.9

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Value above quantitation range E Analyte detected below quantitation limits J

P Sample pH Not In Range

Reporting Detection Limit

Page 2 of 5

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1511040**

04-Nov-15

Client: WPX Energy

Project: Rosa 77C Reserve Pit

Sample ID MB-22137 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 22137 RunNo: 29954

Prep Date: 11/3/2015 Analysis Date: 11/3/2015 SeqNo: 912449 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.7 10.00 97.2 70 130

Sample ID LCS-22137 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 22137 RunNo: 29954

Prep Date: 11/3/2015 Analysis Date: 11/3/2015 SeqNo: 912452 Units: mg/Kg

%RPD PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 50.00 91.4 57.4 46 0 139

Surr: DNOP 5.1 5.000 102 70 130

Sample ID MB-22117 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 22117 RunNo: 29954

Prep Date: 11/2/2015 Analysis Date: 11/3/2015 SeqNo: 912719 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 12 10.00 125 70 130

Sample ID LCS-22117 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 22117 RunNo: 29954

Prep Date: 11/2/2015 Analysis Date: 11/3/2015 SeqNo: 912857 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr. DNOP 6.4 5.000 129 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511040

04-Nov-15

Client: WPX Energy

Project: Rosa 77C Reserve Pit

Sample ID MB-22126 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 22126 RunNo: 29970

Prep Date: 11/2/2015 Analysis Date: 11/3/2015 SeqNo: 913194 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr. BFB 880 1000 88.0 75.4 113

1000

Sample ID LCS-22126 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 22126 RunNo: 29970

960

Prep Date: 11/2/2015 Analysis Date: 11/3/2015 SeqNo: 913195 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 105 79.6 122

96.2

75.4

113

Qualifiers:

Surr. BFB

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1511040

04-Nov-15

Client: WPX Energy

Project: Rosa 77C Reserve Pit

Sample ID MB-22126 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 22126 RunNo: 29970

Prep Date: 11/2/2015 Analysis Date: 11/3/2015 SeqNo: 913277 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.050

 Benizerie
 ND
 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120

Sample ID LCS-22126	SampType: LCS			Tes	tCode: E					
Client ID: LCSS	Batc	h ID: 22	126	F	RunNo: 29970					
Prep Date: 11/2/2015	Analysis [Date: 1	1/3/2015		SeqNo: 9	13278	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	113	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WPX ENERGY	Work Order Number:	1511040		RcptNo: 1
Received by/date:	03/15		******	
Logged By: Lindsay Mangin	11/3/2015 7:00:00 AM		July Hayso	
	11/3/2015 7:30:10 AM		Street Hope	
	11/03/15		000	
Chain of Custody	11107/11		1 1.11 mass 11.11	
THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERS		Yes 🗆	No 🗆	Not Present
Custody seals intact on sample bottles? Is Chain of Custody complete?		Yes 🐼	No 🗆	Not Present
3. How was the sample delivered?		Courier		
3. How was the sample delivered?		Counci		
Log In				
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in proper container(s)?		Yes 🐼	No 🗆	
7. Sufficient sample volume for indicated test(s)	?	Yes 🐼	No 🗆	
8. Are samples (except VOA and ONG) properly	y preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?		Yes 🗆	No 🗹	NA 🗆
10.VOA vials have zero headspace?		Yes 🗆	No 🗆	No VOA Vials
11. Were any sample containers received broke	n?	Yes 🗆	No 🗹	
11. Well any sample containers received broken	"	100		# of preserved bottles checked
12. Does paperwork match bottle labels?		Yes 🐼	No 🗆	for pH:
(Note discrepancies on chain of custody)			N- [(<2 or >12 unless noted) Adjusted?
13. Are matrices correctly identified on Chain of	Custody?	Yes 🕏	No 🗆	
14. Is it clear what analyses were requested? 15. Were all holding times able to be met?		Yes 🖈	No 🗆	Checked by:
(If no, notify customer for authorization.)		100 11.11		
Special Handling (if applicable)				
16. Was client notified of all discrepancies with the	his order?	Yes	No 🗆	NA 🛃
Person Notified:	Date:	-		
By Whom:	Via:	eMail	Phone Fax	☐ In Person
Regarding:			one adverse to those posterior	
Client Instructions:		ALAKAMANIN KINGSA TARAWA		nam Argus - A resident of the Manager
17. Additional remarks:				
18. Cooler Information				
	al Intact Seal No S	Seal Date	Signed By	
1 2.6 Good Yes				

Chain-of-Custody Record				Turn-Around					AL		ERN	FE	20	BIF	MEI	ATA				
lient:	W.	DX 5	nergy	Project Name: Rosa 77 C Reserve Pct					HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com											
hone #: 505 386 96 93 mail or Fax#: A/QC Package: Standard □ Level 4 (Full Validation)				Project #: Project Manager: D Whotsom Sampler: G Sholling On lice; Z Yes P No Sample Temperature: Z 10				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107												
								(5-34	0-39/		alysi	Rec	ques				
								\$ (802	(Gas o	SO/MI			SIMS)	PO.S	/ 8082 PCB's					
								(8021)	+ TPH (Gas only)	3000	418.1)	The state of the s	8270	NO.	/ 8082		(A)		2 E	
									TBE	100	4 po	od 5	10 0	etals	cides	8	i-VO	2		8
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL N	10	BTEX + MEDE	BTEX + MTBE	TPH 8015B (GRO) DRO) MRO)	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	Anions (F.C.I.NO. NO. PO., SO.)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	chlonde		Air Bubbles (Y or N)
-2-15	1/25	soul	SC-1	1-407		-00)ı	X		X								X		
										4										
		de grie						7 8							P					
													+	1						
rate:	Time:	Relinquishe Relinquishe	MWath	Received by	if i	Date Tin	1857	Ren	narks	3:										
ulens	1920	Phi	nitted to Hail Environmental may be sub-	1		102/5 0	700	possil	bility. A	Any su	b-contr	racted o	ata wi	l be cle	arly not	ated or	n the a	inalytica	l report.	

WPX Energy

Photograph 1

Site Name:

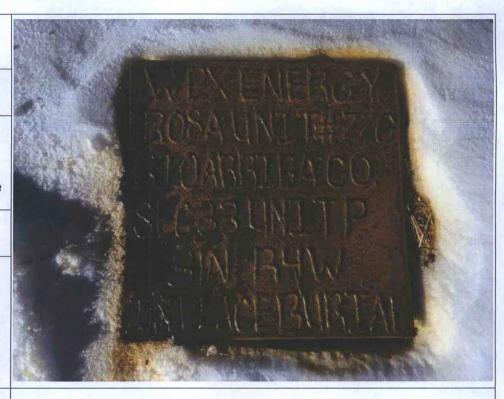
Rosa Unit #77C Reserve Pit Closure

API #: 30-039-29982

Location: N36.850532, W107.360705

P-33-31N-05W Rio Arriba County, New Mexico

Photo Taken by: Glenn Shelby



Description: Steel marker set marking location of buried reserve pit.

WPX Energy

Photograph 2

Site Name:

Rosa Unit #77C Reserve Pit Closure

API #: 30-039-29982

Location: N36.850532, W107.360705

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Description: Facing N, looking at location of buried reserve pit following stabilization, cover, contouring, and seeding per USFS.