· · · · · · · · · · · · · · · · · · ·	District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico Santa Fe, NM 87505For mC-144 Revised Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505
]	Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application 12554 Proposed Alternative Method Permit or Closure Plan Application 12554 Type of action: Below grade tank registration 12553 Permit of a pit or proposed alternative method JAN 15 2015 145-35538 Closure of a pit, below-grade tank, or proposed alternative method JAN 15 2015 145-35538 Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
	I. Operator: WPX Energy Production, LLC OGRID #: 120782 Address: PO Box 640 / 721 S Main Aztec, NM 87410 Facility or well name: Chaco 2308-03E #404H & Chaco 2308-03E #405H API Number: 30-045-35539 & 30-045-35538 OCD Permit Number: 11964 U/L or Qtr/Qtr L Section 3 Township 23N Range 8W County: San Juan Center of Proposed Design: Latitude 36.2553958 N Longitude 107.677637 W NAD: 11927 🛛 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment
	2. \[Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: \[Drilling \[Workover \[Permanent 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 Liner Seams: Welded Factory Other Volume: 8,000 bbl Dimensions: L 130'_ x W 75'_ x D 12'_
	3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: bbl Type of fluid:
	 <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 specify <u>4' hog wire with one strand of barbed wire on top</u>

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

Screen 🗌 Netting 🗍 Other_

7.

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 application.	🗋 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

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🖾 No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes 🗌 No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	
 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. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N	√MAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	cuments are
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
 Shing Chick a 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 	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: <u>30-045-35539 & 30-045-35538</u> or Permit Number: <u>11964</u>	
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached	cuments are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC 	9.15.17.9 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:	

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•	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
	attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
	^{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 □ Workeyer □ Emergancy □ Cavitation □ P&A □ Parmenent Pit □ Palayy grade Topk □ Multi yeall E	luid Managamant Dit
	Type: Drifting workover Emergency Cavitation P&A Permanent Pit Below-grade Fank Multi-well F 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	luid Management Pit
	 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	attached to the
	15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 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 ⊠ No □ NA
	 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	⊠ Yes □ No □ NA
	 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🛛 No
	 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🕅 No
	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	

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- Written confirmation or verification from the municipality. Written approval obtained from the municipality	
white approval obtained noin the manerparty, white approval obtained noin the manerparty	🔲 Yes 🛛 No
Within the area overlying a subsurface mine. Written confirmation or verification or man from the NM EMNRD Mining and Mineral Division	
Within an unstable area	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Ves 🕅 No
Within a 100-year floodplain.	
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play 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 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 cannow 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 	an. Please indicate, 11 NMAC 15.17.11 NMAC ot be achieved)
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address: Telephone: 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1/15	1/2015
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) T Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:Approval Date:/15 Title:Approval Date:/15	1/2015
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) T Closure Plan (only:) OCD Conditions (see attachment) OCD Representative Signature:	/2015
e-mail address:	the closure report.
e-mail address:	the closure report.
e-mail address:	the closure report. complete this

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Operator Closure Certification:

22.

I hereby certify that the information and attachments submitted with t belief. I also certify that the closure complies with all applicable clos	his closure report is true, accurate and complete to the best of my knowledge and ure requirements and conditions specified in the approved closure plan.
Name (Print):Mark Heil	Title: <u>Regulatory Specialist</u>
Signature:	Date: <u>1/13/2015</u>
e-mail address:mark.heil@wpxenergy.com	Telephone: <u>505-333-1806</u>

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WPX Energy Production, LLC San Juan Basin: New Mexico Assets Temporary Pit In-place Closure Report Drilling/Completion and Workover (Groundwater >100 feet bgs)

Well:	CHACO 2308-03L #404H & CHACO 2308-03L #405H
API No:	<u>30-045-35539 & 30-045-35538</u>
Location:	L-S03-T23N-R08W, 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
- Plot Plan (Pit Diagram)
- Inspection reports
- Sampling Results
- Division Form C-105: WELL COMPLETION OR RECOMPLETION REPORT AND LOG
- Copy of Deed Notice filed with the County Clerk (format to meet County requirements)
 <u>A deed notice is not required on state, federal or tribal land according to NMOCD FAQ dated October 30, 2008 and</u>
 posted on the NMOCD website.

<u>NOTE: The original construction of the pit was conducted by Logos Operating, LLC (Logos). WPX acquired the well pad</u> from Logos in August of 2014, after the pit was covered by Logos on (8/6/2014). Logos had not re-contoured or reclaimed the pit when WPX acquired the well pad. After WPX overtook operations of the well pad, WPX obtained the responsibility to reclaim the pit.

General Plan Requirements:

1. It was the responsibility of Logos to remove free standing liquids at the start of the pit closure process from the pit and dispose of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.

It is the understanding of WPX that records of pit inspections were not kept by Logos (communication with Tamra Sessions). Therefore, WPX does not have knowledge of the absence or existence of free standing liquids during the life of the pit.

2. 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.

The on-site burial plan for this location was approved by the Aztec District Office on (6/27/2014).

- 3. Logos will notify the surface owner by certified mail, return receipt requested, unless surface owner is a public entity (BLM/State/Tribal) then an email notification will be sent, of plans to close the temporary pit at least 72 hours, but no more than 1 week, prior to any closure operation. The notice will include the well name, API number, and location of the pit. Logos 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.
- 4. Within six months of the "rig-off" status occurring on the continuous drilling of dual pad wells, Logos will ensure that the temporary pit is closed, recontoured, and reseeded.

Drill rig-off (7/8/2014). Completion Rig-off (9/11/2014) Pit closed (8/6/2014). The pit was re-contoured and reseeded on (1/9/2015). The pit area, in addition to unused portions of well pad, are to be interim reclaimed in accordance with Surface Management Agency requirements in APD-COAs and per BLM: FFO/NMOCD MOU dated 5/4/09.

- 5. 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)

The Aztec District Office of NMOCD was notified by email using a format acceptable to the District. Copies of the notification from Logos on (8/4/2014) is attached.

6. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using 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 clean soil to 1 part pit contents.

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 track hoe. The mixing ration was approximately 2.5-3 parts native soil to 1 part pit contents. Solidification was completed (8/6/2014).

 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.

<u>A five-point composite sampling was taken of the pit area using sampling tools and the sample was tested per</u> <u>19.15.17.13(B)(1)(b) NMAC. Results are shown in Table 1 and lab reports are attached.</u>

			100 0 801
Components	Testing Methods	Limits (mg/Kg)	Pit (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	10	ND
BTEX	EPA SW-846 Method 8021B or 8260B	50	ND
ТРН	EPA SW-846 Method 418.1	2500	700
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	1000	ND/830
Chlorides	EPA SW-846 Method 300.1	80,000	251

8. Upon completion of solidification and testing, the operator is to fold the outer edges of the trench liner to overlap the waste material in the pit area, then install a geomembrane cover over the waste material in the pit to prevent collections of infiltration water after the soil cover is in place; geomembrane a 20-mil, string reinforced, LLDPE liner, or equivalent complying with EPA SW-846 method 9090A requirements and impervious resistance to ultra violet light, hydrocarbons, salts, and alkaline.

<u>Upon completion of solidification and testing (8/6/2014), the outer edges of the trench liner was folded to overlap the waste</u> material in the pit area. A geomembrane cover was placed over the waste material in the pit to prevent collections of infiltration water after the soil cover was in place (20-mil, string reinforced, LLDPE liner, or equivalent complying with EPA SW-846 method 9090A requirements and impervious resistance to ultra violet light, hydrocarbons, salts, and alkaline).

9. The pit area will be backfilled with compacted, non-waste containing, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The pit area was backfilled on (8/6/2014) with compacted, non-waste containing, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0. A minimum of four feet of cover was achieved on (1/9/15) and the cover included one foot of suitable material (1/9/15) to establish vegetation at the site.

10. Re-contouring of the location will match fit, shape, line, form, and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion, Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface fitting the natural landscape.

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. Cover and re-contouring were completed (1/9/2015).

11. Notification will be sent to the Aztec District office when the reclaimed area is seeded. <u>WPX will comply with Surface Management Agency reseeding requirements in the COAs of the APD for the referenced well, per</u> <u>BLM:FFO/NMOCD MOU dated 5/4/09.</u>

12. WPX shall seed the disturbed areas the first growing season after the pit is closed. Seeding will be accomplished via drilling on the contour whenever practical, or by other division-approved methods. BLM or Forest Service stipulated seed mix will be used on federal lands. Vegetative cover will be established that will reflect a life-form ratio of plus or minus fifty percent

(50%) of pre-disturbance levels and will equal seventy percent (70%) of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Note: 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 onsite burial upon the abandonment of all the wells on the pad. The marker will be a four foot tall riser with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and Number, unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.
 - a. If the well goes into production, then an alternate interim marking system will be used to allow for safer and more efficient operations. A minimum 4" O.D. steel pipe will be set at least 36" deep at the center of the pit. A threaded collar will be on the top of the pipe. A minimum 12" x 12" steel plate will be welded atop the threaded collar. Top of the plate will be flush with ground level. The steel plate will contain the Operator Name, Lease Name, Well Number, and location information including unit letter, section, township and range, and that the marker designates an onsite burial location. This information will be welded, stamped or otherwise permanently engraved into the metal of the plate. Upon the abandonment of all the wells on the pad, the plate will be removed and replaced with a four foot tall riser containing the same information as described for the steel plate pursuant to 19.15.17.13.H.5D.

The temporary pit was located with a steel marker meeting the above listed specifications immediately after the pit reclamation date of (1/9/15). No steel marker was found to be set by Logos, who closed the pit on (8/6/2014). The marker has the following information welded for future reference: WPX ENERGY Chaco 2308-3L #404H/405H_S03-T23N-R08W, San Juan County, NM, In Place Pit Burial (photo attached). Steel marker set (1/9/2015).

313147

UL or lot no.

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OGRID No.

289408

<u>DISTRICT J</u> 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT JJ 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office**

"AS DRILLED"

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹ ÅPI Number ⁸Pool Name BASIN MANCOS *Pool Code 97232 30-045-35539 ⁴Property Code Property Name Well Number HEROS 002H ^{*}Operator Name ^e Elevation LOGOS OPERATING, LLC 6879 ¹⁰ Surface Location North/South line Feet from the Section Feet from the East/West line Township Range Lot Idn County 3 23 N 8 W 2268 SOUTH WEST SAN JUAN 7.0

an na station an tais.		an an sta Sa an sa an sa an	¹¹ Botte	om Hole	Location I	Different Fro	om Surface	· · · · ·	an a
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	4	23 N	8 W		1742	NORTH	260	WEST	SAN JUAN
¹² Dedicated Acres	s ¹⁵ Joint o	or Infill 14	Consolidatio	n Code ¹⁵ O	rder No.		· · · · · · · · · · · · · · · · · · ·		

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

OR A NON-STRADARD ONLY HAS DEEN AFFROVED I	
16 BOTTOM HOLE LANDING POINT SURFACE	17 OPERATOR CERTIFICATION
1742' FNL, 260' FWL 2148' FNL, 206' FEL 2268' FSL, 70' FWL	OF ERATOR CERTIFICATION
LAT: 36.2588009° N LAT: 36.2576693° N LAT: 36.2551894° N	I nervoy certify that the information contained herein is
LONG: 107.6951898° W LONG: 107.6787865° W LONG: 107.6777876° W	and that this organization either owns a working interest
NAD 83 NAD 83 NAD 83	or unleased mineral interest in the land including the
LAT: 36°I5.52729' N LAT: 36°I5.45940' N LAT: 36°I5.31060' N	proposed bottom hale location or has a right to drill this
LONG: 107°41.67469' W LONG: 107°40.69052' W LONG: 107°40.63059' W	well at this location pursuant to a contract with an
NAD 27 NAD 27 NAD 27	owner of such a mineral or working interest, or to a
	heretofore entered by the durision
0 S 89°58'46" W 0 S 89°59'04" W 0 S 89°58'18" W	
≥ 2651.24 2649.72 ≥ 5305.33	
	Signature
o 1742 m 20	Heather Riley
8 <u>9</u>	Drinted Name
Z 206	Fillieu nalle
	heather.riley@wpxenergy.com
N 18 UY 3/ W	E-mail Address
	¹⁸ SURVEYOR CERTIFICATION
SECTION 4	I bereta certify that the well location shown on this sint
	was plotted from field notes of actual surveys made by me
[[[[: []]] [] [] [] [] [] [] [] [] [] [] [] [or under my supervision, and that the same is true and
/ [ee 프로그는 프로ONNE - 데이지 카르 카루 프로그	correct to the best of my belief.
	03/27/14 CHALL W. LINA
Z N 89°39'56" W	Date of Survey
263/ 18' •	Signature and See of pleeting the strength
	200
BEARINGS & DISTANCES SHOWN ARE LEGEND:	97,587514
COODDINATE SYSTEM WEST TONE MAD 13 0°= SURFACE	MIA (1010) 'I I
LUNITESS OTHERWISE NOTED	IXILXING I
• = BOTTOM HOLE	INTERLY ILLASIN
NOTE: THE COORDINATES FOR THE LANDING	Charles Walt
POINT AND THE BOTTOM HOLE LOCATION CAME @ = FOUND 1947 U.S.G.L.O.	11078 USYONAL SUN
FROM THE CERTIFIED FINAL DIRECTIONAL BRASS CAP	Certificate Number
SURVEY CONDUCTED BY CATHEDRAL ON 07/31/14.	United Field Scivices, IIC.

1625 N. French Phone: (575) 39; DISTRICT II BII S. First St., Phone: (575) 744 DISTRICT III 1000 Rio Brazos Phone: (505) 334 DISTRICT IV	Dr., Hobbs, 3-6161 Fax: Artesia, N.J 8-1283 Fax Rd., Aztec, 4-6178 Fax	N.M. 88240 (575) 393 M. 88210 (575) 748 N.M. 87410 (505) 334	0720 9720 6170	S Energy, Mir OIL C 1	ONSERV 200 South Santa Fe	ATION DIVISI st. Francis Dr. N.M. 87505	tment ON	Re omit one	Form vised August copy to appro District	C-102 1, 201 opriate Office
1220 S. St. Fran Phone: (505) 476	cis Dr., Ser 8-3460 Fax	nta Fe, N.M : (505) 476	87505 3462	TOOL	"AS DI		TOUTTON		AMENDED RI	EPORT
' API	Number	· · · · · · · · · · · · · · · · · · ·	WELL	*Pool Code	JN AND	ACREAGE DED	ICATION P ⁹ Pool Nan	LAT	<u></u>	
4 Property C	045-35 lode	538	<u></u>	9723	2	erty Name	BASIN MA	NCOS	• Well Numbe	r
313652	0		<u></u>		HE	ROS	<u> </u>	<u></u>	003H	·
120782			2.17	WPX ENERGY	PRODUCTION	i, LLC	en e		Elevation 6879	1
					¹⁰ Surfa	ce Location			an a	
UL OF LOT NO.	Section 3	Township 23 N	Range 8 W	Lot Idn	Feet from th	he North/South line	Feet from the	East/West	line County	ILIAN
· · · · · · · ·	L		11 Ro	tom Hole	Location	n If Different Fr	om Surface	WL3	I JAN J	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	he North/South line	Feet from the	East/West	line County	<u></u>
Ĺ	4	23 N	8 W		2254	SOUTH	250	WES	T SAN J	UAN
160 ACRE	s S	oint or Inf	ill ¹⁴ Con	solidation Code	e ¹⁶ Order No.	· · · · · · · · · · · ·	t te seeter V			
16 <u>BOTTON</u> 2254' F LAT: 36 LONG: I NAD 83 LAT: 36 LONG: I NAD 27	ABLE WI SL, 250 5,255225 07,69511 5°15,3127 07°41,67	ILL BE OR A FWL 88° N 32° W 9' N 009' W	ASSIGN NON-S LANDIN 1888' F LAT: 30 LONG: NAD 83 LAT: 30 LONG: NAD 27	ED TO TH TANDARD <u>G POINT</u> SL, 159' FE 2541491° 07.678539 07.678539 07.678539 07.675	IS COMPLE UNIT HAS L 2216 N LAT 5° W LON N LAT 70 W LON NAD	TION UNTIL ALL BEEN APPROVED 5' FSL, 74' FWL 36.2550465° N 16:107.6777705° V 83 36°15.30203' N 16:107°40.62957' 0 27	INTERESTS I BY THE DIV I hereby certify true and compi and that this co or unleased bottom well at this loc ouner of such to the iothertary pool:	HAVE BE VISION ERATOR I that the info lete to the best inguisitation eit moral interest a hole location ation pursuum a minoral or	EN CONSOLII CERTIFICAT mation contained ho t of my knowledge ar ber owns a working in the land including or has a right to dr t is a contract with working interest, or 1 or a computery space	DATEL FION rein is nd belief. interest y the ill this an to a ing order
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Analytical Report

Report Summary

Client: Logos Operating, LLC Chain Of Custody Number: 17286 Samples Received: 8/6/2014 2:25:00PM Job Number: 12035-0061 Work Order: P408021 Project Name/Location: Heros #2H & #3H

Entire Report Reviewed By:

Date: 8/8/14

Tim Cain, Laboratory Manager

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

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	Laboratory@envirotech-Inc.com

Page 1 of 10

Summary of Analytical Results Logos Operating, LLC Heros #2H and #3H Drill Pit Closure and Backfill Material Sampling Report San Juan County, New Mexico Project Number 12035-0061

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	Chlorides USEPA Method 300.0 (ppm)
NMOCD/RCRA Standards	NA	NA	2500	1000	10	50,-	80000
Drill Pit Mud	1	8/6/2014	700	833	ND	ND	251
NMOCD/RCRA Standards	NA .	NA	NA	NA	ŇA	NA	600
Top Soil	2	8/6/2014	NS	NS	NS	NS	ND

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

* Values in BOLD above regulatory standards



Logos Operating, LLC	Project Name:	Heros #2H & #3H	
PO Box 18	Project Number:	12035-0061	Reported:
Flora Vista NM, 87415	Project Manager:	Sheena Leon	08-Aug-14 13:22

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Mud	P408021-01A	Soil	08/06/14	08/06/14	Glass Jar, 4 oz.
Top Soil	P408021-02A	Soil	08/06/14	08/06/14	Glass Jar, 4 oz.

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			Page 2 of 10



Logos Operating, LLĆ PO Box 18 Flora Vista NM, 87415	Project Project Project	Name: Number: Manager:	Hero 1203 Shee	Heros #2H & #3H 12035-0061 Sheena Leon				Reported: 08-Aug-14 13:22		
		Dril P4080	l Pit Mu 21-01 (Se	ıd əlid)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	'ND	0.05	mig/k.g	1	1432020	08/06/14	08/07/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8021B		
Ethylbenzene	ŃD	0.05	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8021B		
p,m-Xylene	ND	0.10	mg/kg	1.	1432020	08/06/14	08/07/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8021B		
Surrogate: Bromochloroberzene		102 %	80	-120	1432020	08/06/14	08/07/14	EPA 8021B		
Surrogate: 1,3-Dichloroberzene		98.1%	80	-120	1432020	08/06/14	08/07/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1432020	08/06/14	08/07/14	EPA 8015D		
Diesel Range Organics (C10-C28)	833	24.9	mg/kg	1	1432017	08/07/14	08/07/14	EPA 8015D		
Surrogate : Benzo[a]pyrene		55.4%	50	-200	1432017	08/07/14	08/07/14	EPA 8015D		
Cation/Anion Analysis	· · · ·					<u> </u>				
Chloride	251	9.79	mg/kg	1	1432018	08/06/14	08/07/14	EPA 300.0		

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			Page 3 of 10



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project N Project N Project M	ame: umber: anager:	Hero 1203 Shee	os #2H & #31 15-0061 :na Leon	Ï			Reported: 08-Aug-14 13	3:22
		T P4080	op Soil 21-02 (S	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	ND	9.96	mg/kg	· 1	1432018	08/06/14	08/06/14	EPA 300.0	

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Page 4 of 10



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Pro Pro Pro	jeet Name: jeet Number: jeet Manager:	H 1 S	leros #2H & # 2035-0061 heena Leon	ВН				Report 08-Aug-1	ted: 4 13:22
	Volatile	Organics b	y EPA	8021 - Qua	llty Cont	rol				
	E	wirotech A	Analyti	cal Labor	atory					
	_	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit _i	Notes
Batch 1432020 - Purge and Trap EPA 5030A										
Blank (1432020-BLK1)				Prepared: (6-Aug-14	Analyzed:	07-Aug-14		·	
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	•							
Ethylbenzene	ND	0.05	•							
p.m-Xylene	ND	0,10	•							
o _z Xylene	ND	0.05	•							
Total Xylenes	ND.	0.05	•							
Total BTEX	ND	Ô:05	•							
Surrogate: 1,3-Dicklorobenzene	5Ò.1		ug/L	-50.0		100	80-120			
Surrogate: Bromochlorobenzene	51.8		"	.50.0		104	80-120			
Duplicate (1432020-DUP1)	Sou	rce: P408021-	01	Prepared: 0	6-Aug-14	Analyzed:	07-Aug-14			
Benzene	ND	0 .05	mg/kg		ND				30	
Toluene	ND	0.05	•		ND				30	
Ethylbenzene	ND	0.05	•		ND				30	
p,m-Xylèné	ND	0,10	•		ND				30	
o-Xylene	ND	0.05	•		ND				30	
Surrogate: 1;3-Dichlorobenzene	48.9		ug/L	50.0		97.9	80-120			
Surrogate: Bromochloroberzene	52.8		*	50.0		106	80-120			
Matrix Spike (1432020-MS1)	Sóu	rce: P408021-	01	Prepared: 0	6-Aug-14.	Analyzed:	07-Aug-14			
Benzene	51.6		ug/L	50.0	ND	103	39-150			
Toluene	55.3		•	50.0	ND	111	46-148			
Ethylbenzene	51.8		•	50.0	ND	104	32-160			
p.m-Xylene	108			100	ND	108	46-148			
o-Xylene	53.0		•	50.0	ND	106	46-148			
Surrogata: 1, 3-Dichlorobenzene	50.3		u	.50.0		101	80-120			
Surrogate: Bromochlorobenzene	53.7			50.0		107	80-120			

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Page 5 of 10



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Pro Pro Pro	jeet Name: jeet Number: jeet Manager:	H 11 S	eros #2H & # 2035-0061 heena Leon	3H				Report 08-Aug-14	ed: 1 13:22
	Nonhalog	enated Org	anics by Analyti	7 8015 - Qi cal Labor	uality Co	ntrol		<u> </u>		
Analyte	Besult	Reporting	Inite	Spike	Source	%REC	%REC	 רופפ	RPD Limit	Notes
Potch 1432017 DBO Extendion EDA	255034			Leve	ACC STAT	10100	Linute	110		,11003
Blank (1432017-BLK1)	5550141			Prepared &	Analyzed	06-Aug-14		<u>_</u>		·
Diesel Range Organics (C10-C28)	52.4	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	20.0		mg/L	20.0		99.8	50-200			
LCS (1432017-BS1)				Prepared 8	t Analyzed:	06-Aug-14	ı.			
Diesel Range Organics (C10-C28)	524	24.9	mg/kg	498		105	38-132			
Surrogate: Benzo[ä]pyrene	20.5	·······.	mg/L	20.0		103	50-200			·
Matrix Spike (1432017-MS1)	Sou	rce: P408018-	01	Prepared 8	Analyzed:	06-Aug-14	I			
Diesel Range Organics (C10-C28)	5310	25.0	mg/kg	499	4680	126	38-132			
Surrogate: Berizo[a]pyrene	29.1		mg/L	20.0		146	50-200			
Matrix Spike Dup (1432017-MSD1)	Sou	rce: P408018-	01	Prepared &	Analyzed:	06-Aug-14	ı			
Diesel Range Organics (C10-C28)	4570	25:0	mg/kg	500	4680	NR	38-132	14.8	20	SPK 1
Surrogate: Benzo[a]pyrene	30.6		mg/L	20.0		153	50-200			

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Page 6 of 10

Page 19 of 28



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Proj Proj Proj	ect Name: ect Number: ect Manager:	E 1 S	leros #2H & # 2035-0061 heena Leon	ЗH	Reported: 08-Aug-14 13:22				
	Nonhaloge	enated Org	anics by	y 8015 - Qi	iality Co	ntrol				
	154	whoteen i	Analyti	cai 1/2001	atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1432020 - Purge and Trap EP.	A 5030A									
Blank (1432020-BLK1)				Prepared: (06-Aug-14	Analyzed	07-Aug-14			
Gasoline Range Organics (C6-C10)	ND	5,00	mg/kg				ŭ			
Duplicate (1432020-DUP1)	Sou	ce: P408021-	-01	Prepared: ()6-Aug-14	Analyzed:	07-Aug-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	*	ND		•		30	
Matrix Spike (1432020-MS1)	Sou	ce: P408021-	01.	Prepared; (06-Aug-14					
Gasoline Range Organics (C6-C10)	0.53		mg/L	0.450	0.008	116	75-125			SPK 1

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. Page 7 of 10≤



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Proje Proje Proje	et Name: et Number: et Manager:	H 12 Si	eros #2H & # 2035-0061 heena Leon	ЗH				Reported: 08-Aug-14 13:22		
	Catlo	on/Anion A	Analysis	- Quality	Control		<u> </u>				
	En	virotech 2	Anaiyu	cal Labor	atory						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 1432018 - Anion Extraction EPA 3	00.0					-					
Blank (1432018-BLK1)				Prepared &	z Analyzed	: 06-Aug-14	•				
Chloride (ND	9,96	mg/kg	····							
LCS (1432018-BS1)				Prepared &	Analyzed	06-Aug-14	I				
Chloride	495	9.92	mg/kg	496		99.8	90-110				
Matrix Spike (1432018-MS1)	Sour	e: P408012-	01	Prepared &	2 Analyzed	: 06-Aug-14					
Chloride	967	9.92	mg/kg	496	488	96.5	80-120				
Matrix Spike Dup (1432018-MSD1)	Sour	ce: P408012-	01	Prepared &	z Analyzed	06-Aug-14	I				
Chlonde	960	9.87	mg/kg	494	488	95.6	80-120	0.682	20		

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			Page 8 of 10 ***



Logos Operating, LLC	Project Name:	Heros #2H & #3H	
PO Box 18	Project Number:	12035-0061	Reported:
Flora Vista NM, 87415	Project Manager:	Sheena Leon	08-Aug-14 13:22

Notes and Definitions

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

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		⊘ Page 9 of 10

Client:	alt no	-	Project Name / Locati	on: H \ J	+ 211	,			_				A	NALY	/SIS	/ PA	RAMI	ETER	s				٦
Email results to: S. C.U.	Pei	тон М				015)	8021)	3260)					_										
Client Phone No.:		(Client No.: 1202	6-α	101				Aethod 8	(Method	Method E	8 Metals	/ Anion		with H/P	ole 910-1	18.1)	RDE					e Intact
Sample No./ Identification	Sample Date	Sample Time	e Lab No.	No./ of Co	Volurne ntainers	Pr HNO3	eserval HCI	ive CcO	√) нат	втех	VOC (I	RCRA	Cation	RCI	TCLP	CO Tàl	трн (4	CHLO				sample	Sample
Driu Pit Mud	8/6/14	11:10	2408031-01	1-4020	1035jar			X	Х	X								X			1		7
TopSail	8/6/14	11:30	> 19408021-02	1-4/02	glassin			X										X				1	1
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Relinquished by: (Signature)	MOW / A	Ð	<u>~</u>	9-1-1	1.14.2	Rece	ived (18:18	lignat	ure)		/2		20		<u></u>	<u>.</u>			_0/-	-1/1		4
Sample Matrix Soil Ø Solid 🗌 Sludge 🗋	Aqueous [] Other	0				· • • • • •		,														
Sample(s) dropped off after	hours to se	cure drop	o off area.	ス	env	ire	ot	e	cł	1			ر ا	<u>،</u>			าป	1	(1	6.	2)		
hu hu	SN		Q.	<u>_</u>	Anal	ytic	al Lo	bor	ator	ý			12	9		1	1.7				_		
5795 US Highway 6	4 • Farmingt	on, NM 8	7401 • 505-632-0615 •	Three Spr	ings • 65 h	lerca	do Str	eel, S	uite	115, E	Duran	go, C	0 81	301 •	lapo	rator	γ®en	virote	ch-in	an juan	age 1	0 Of	10 3-129

CHAIN OF CUSTODY RECORD

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Submit To Appropria Two Copies District I	nte Distric	et Office		State of New Mexico Energy, Minerals and Natural Resources											Re	vised A	Form C-105 ugust 1, 2011	
1625 N. French Dr., 1 District II 811 S. First St. Artes	Hobbs, NI	M 88240			(Dil Conservat	tion I	Divis	ion		ı	1. WELL API NO. 30-045-35539 & 30-045-35538						
District III 1000 Rio Brazos Rd.	, Aztec, N	IM 87410		1220 South St. Francis Dr.								2. Type of Lease ☐ FEE X FED/INDIAN						
District IV 1220 S. St. Francis D	r., Santa I	Fe, NM 87505		Santa Fe, INIVI 87303								3. State Oil & Gas Lease No. NMNM109398						
WELL COMPLETION OR RECOMPLETION REPORT AND LOC) LOG			al ent					
4. Reason for filing:											5. Lease Name or Unit Agreement Name CHACO 2308-03L							
COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)										6. Well Number: #404H & #405H								
C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC) 7. Type of Completion:																		
NEW W] WORKOV	'ER 🔲	DEEPI	ening	PLUGBACH	< 🔲	DIFFI	eren	VT RESER	VOII							
WPX Energy Produ	or uction, L	.LC										9. OGRID 120782				in:		
10. Address of Ope PO Box 640 / 721 5	erator South Ma	ain Aztec, N	<u>IM 874</u>	10								 Pool name Lybrook/Gallu 	: or W 1p	ildcat				
12.Location	Jnit Ltr	Section		Towns	hip	Range	Lot		1	Feet from	the	N/S Line	Feet	from the	E/W	Line	County	
BH:																		
13. Date Spudded	14. Da	Ite T.D. Read	ched	15. E 7/30/	Date Rig 2014	Released	L		16.	Date Com	pletec	I (Ready to Proc	l luce)	1 F	 7. Eleva 3. GR, 6	tions (DF etc.)	and RKB,	
18. Total Measured	Depth o	of Well		19. F	'lug Bac	k Measured Dep	oth		20.	Was Direc	ctiona	al Survey Made	2	21. Ty	pe Electr	ric and Of	her Logs Run	
22. Producing Inter	val(s), o	f this compl	etion - T	Top, Bot	tom, Na	me								,				
23.	2	WEIGH	тір /ї	CASI	NG RE	CORD (Rep	ort a	ıll str	rings	set in w	ell)	CEMENTIN	C DE				DULLED	
		WEIGH	T LD./I	1.					по	LL SIZE		CEMENTIN	U KE	CORD		MOUNT	FULLED	
						••											•	
																.	· · ·	
SIZE	ТОР		BOI	ТОМ	LINI	SACKS CEM	ENT	SCF	SCREEN SIZ			ze	DBI	DEPTH SET PAC			ER SET	
												- t	_					
26. Perforation re	ecord (in	terval, size,	and nun	nber)				27.	AC	D, SHOT	 `, FR	ACTURE, CE	MEN	IT, SQU	EEZE,	ETC.		
								DEI	PTH	INTERVA	Ĺ	AMOUNT A	ND K	CIND MA	TERIA	L USED		
								-										
										B-1641								
28. Date First Production	on		Producti	on Met	nod (Flo	wing gas lift n	PRO	DUC g - Siz	CTI ze an	ON d tvpe pum	n)	Well Status	(Prod	d. or Shu	-in)			
					,	0.0 5.1		0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		,		,			
Date of Test	Hours	Tested	Cho	ke Size		Prod'n For Test Period		Oil -	- Bbl		Ga	s - MCF	w	ater - Bbl		Gas - C	Dil Ratio	
Flow Tubing Press.	Casing	g Pressure	Calo Hou	culated 2 ir Rate	24-	Oil - Bbl.		ـــــــــــــــــــــــــــــــــــــ	Gas ·	- MCF	L 	Water - Bbl.	_ I ,	Oil Gr	avity - A	.PI - (Cor	r.)	
29. Disposition of C] Gas <i>(Sold</i>	d, used for fi	iel, vent	ed, etc.)								:	30. T	est Witn	essed By	/		
31. List Attachmen	ts																	
32. If a temporary p	oit was u	ised at the w	ell, attac	ch a plat	with the	e location of the	tempo	orary J	pit.					<u></u>	·····.	******		
33. If an on-site but	rial was	used at the v	vell, rep	ort the e	xact loc	ation of the on-s	site bu	rial:							<u> </u>			
I hereby centify Signature:	that th	re informa	tion si	hown c	on both Printer	Latitude a sides of this l Name: Ma	<i>forn</i> rk H	<u>36.25:</u> 1 <i>is ti</i> eil	<u>5395</u> гие а т	<u>8 N</u> and comp `itle: Re	olete guls	Longit to the best of tory Special	ude f my ist	107.6 knowle	577637 <u>V</u> dge an te:	N od beliej	NAD 1983	
	k-	HJ_]	E-mail	Address: ma	ark.h	eil@	wp>	cenergy.c	com							

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 From:
 Tamra Sessions

 Sent:
 Wednesday, July 30, 2014 12:06 PM

 To:
 Mark Kelly (mkelly@blm.gov)

 Cc:
 Jonathan Kelly (jonathan.kelly@state.nm.us); brandon.powell@state.nm.us; Wayne Ritter (writter@logosresourcesllc.com)

 Subject:
 Heros 2H 3H Federal Pit Closure 72hr notice

Heros 2H & Heros 3H Federal Lease 109398 API #30-045-35539 & 30-045-35538 UL L, Section 03, T23N, R08W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Monday, August 4, 2014.

Tamra Sessions Logos Resources, LLC Operations Technician <u>tsessions@logosresourcesllc.com</u> (o) 505-436-3790 (c) 505-330-9333









OIL CONS. DIV DIST. 3 JAN 1 5 2015

Permit Number: 11964

January 14, 2015

Mr. Jonathan Kelly,

This letter serves the purpose of supplying NMOCD with significant information about the CHACO 2308-03L #404H and CHACO 2308-03L #405H temporary pit closure:

This temporary pit was originally constructed by Logos Operating, LLC (Logos) as the Heros #2 and Heros #3 pit. On August 6th, 2014, Logos closed the pit, but did not reclaim the surface above the pit. A sampling report conducted by Envirotech is attached to this cover letter. After WPX Energy Production, LLC (WPX) acquired possession of the well pad; WPX acquired the responsibility to reclaim the surface above the pit.

The surface owner is of public entity (BLM). Logos Operating, LLC made the notification within 72 hours of closing the temporary pit by email (instead of a certified mail letter).

Pit inspections were not conducted by Logos, as documented in the attached temporary pit closure.

Thank you,

Mark Heil Regulatory Specialist WPX Energy mark.heil@wpxenergy.com 505-333-1806