

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT Form C-141
Revised August 8, 2011
APR 18 2016
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.
RECEIVED

Release Notification and Corrective Action

NAB1611035243 *246289* **OPERATOR** Initial Report Final Report

Name of Company	WPX Energy Inc/ RKE E&P, LLC	Contact	Lucas Smith
Address	3500 One Williams Center Tulsa, OK 74172	Telephone No.	539-573-0176
Facility Name:	North Brushy Draw 35-9H	Facility Type :	Oil and Gas Well
Surface Owner:	Federal	Mineral Owner:	Federal
		API No.	30-015-42220

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	35	25S	29E	300	FNL	260	FEL	Eddy

Latitude: 32.092610 Longitude: -103.9468205

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 30 Bbls	Volume Recovered: 28 Bbls
Source of Release Dump valve malfunction sent produced water to flare	Date and Hour of Occurrence 04/15/16	Date and Hour of Discovery 04/15/16 - 1500hrs MT
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Message left at Artesia Field Office	
By Whom? Lucas Smith	Date and Hour: 04/16/16 - 1208hrs MT	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Dump valve malfunction sent produced water to flare		
Describe Area Affected and Cleanup Action Taken.* Fluid was standing around the flare. Vacuum truck was dispatched to recover free standing fluid, approximately 28 Bbls recovered. Offsite affected soil will be dug and hauled. Confirmation samples will be collected.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Lucas Smith</i>	OIL CONSERVATION DIVISION	
Printed Name: Lucas Smith	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: EHS Manager	Approval Date: <i>4/19/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: Lucas.smith@wpxenergy.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 04/18/16 Phone: 539-573-0176	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 5/20/16 *2RP-3649*

Incident ID	NAB1611035243
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

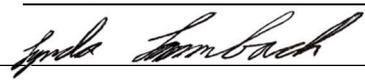
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1611035243
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Lynda Laumbach Title: Environmental Professional
 Signature:  Date: 03/31/2021
 email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1611035243
District RP	2RP-3649
Facility ID	
Application ID	

Closure

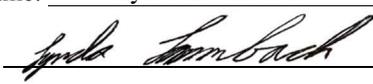
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lynda Laumbach Title: Environmental Professional

Signature:  Date: 03/31/2021

email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 3/29/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



March 31, 2021
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: **North Brushy Federal 35 #009H** Release Closure Request (NAB1611035243)

Mr. Bratcher,

This report summarizes the field activities at the North Brushy Federal 35 #009H well pad (Site). The topographic map of the Site is provided as Figure 01. Two releases occurred on April 15, 2016 and May 5, 2016, 2RP-3649 and 2RP-3684, respectively. Both releases occurred when fluids were sent to the flare. A Closure Request was submitted and approved by the NMOCD on November 1, 2016 for the release 2RP-3684 which had occurred after the release 2RP-3649. A copy of the original Closure Report is attached in Attachment 01.

WPX is respectfully requesting the Closure Approval of 2RP-3649 based on the Approval of 2RP-3684 and the supplemental material provided below.

Well Location: North Brushy Federal 35 #009H

API #: 30-015-42220

NMOCD Reference #: NAB1611035243 (2RP-3649)

Site Location Description: Unit Letter A, Section 35, Township 25S, Range 29E

Release Latitude/Longitude: N32.0926101, W103.9468205

Land Jurisdiction: Federal

NMOCD Closure Standards: 600 milligrams per kilogram (mg/kg) Chloride, 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX), 10 mg/kg Benzene, 100 mg/kg Total Petroleum Hydrocarbons (TPH)

Field & Sampling Activities

On March 18, 2021, personnel were onsite to collect samples DS01-DS05 at depths of 2 feet bgs and 4 feet bgs. The area of interest is located on Figure 02. Discrete samples were taken throughout the release area to confirm and compliment previous sampling activities provided in Attachment 01. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to the chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Laboratory Analytical Results

The laboratory analytical results of impacted soils depicted no results above NMOCD Closure Criteria. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01 and complete laboratory results are provided in Attachment 02.

- Chloride analysis ranged from below the Laboratory detectable limit to 42.3 mg/kg
- Benzene analysis ranged from below the Laboratory detectable limit to 0.00807 mg/kg
- BTEX analysis ranged from below the Laboratory detectable limit to 0.0236 mg/kg
- TPH analysis ranged from below the Laboratory detectable limit to 70 mg/kg

Closure Request

The laboratory analytical results to address the impacted soils from NAB1611035243 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. WPX requests that this release be closed. The updated C-141 is attached to the beginning of this report. WPX requests no further action for this incident.

If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpenergy.com.

Best regards,



Lynda Laumbach
Environmental Specialist

CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 01 Topography

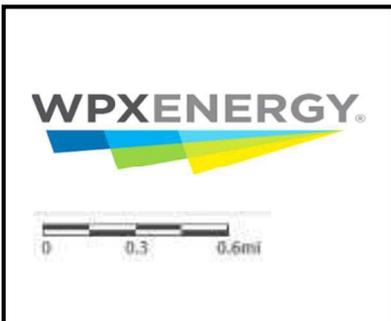
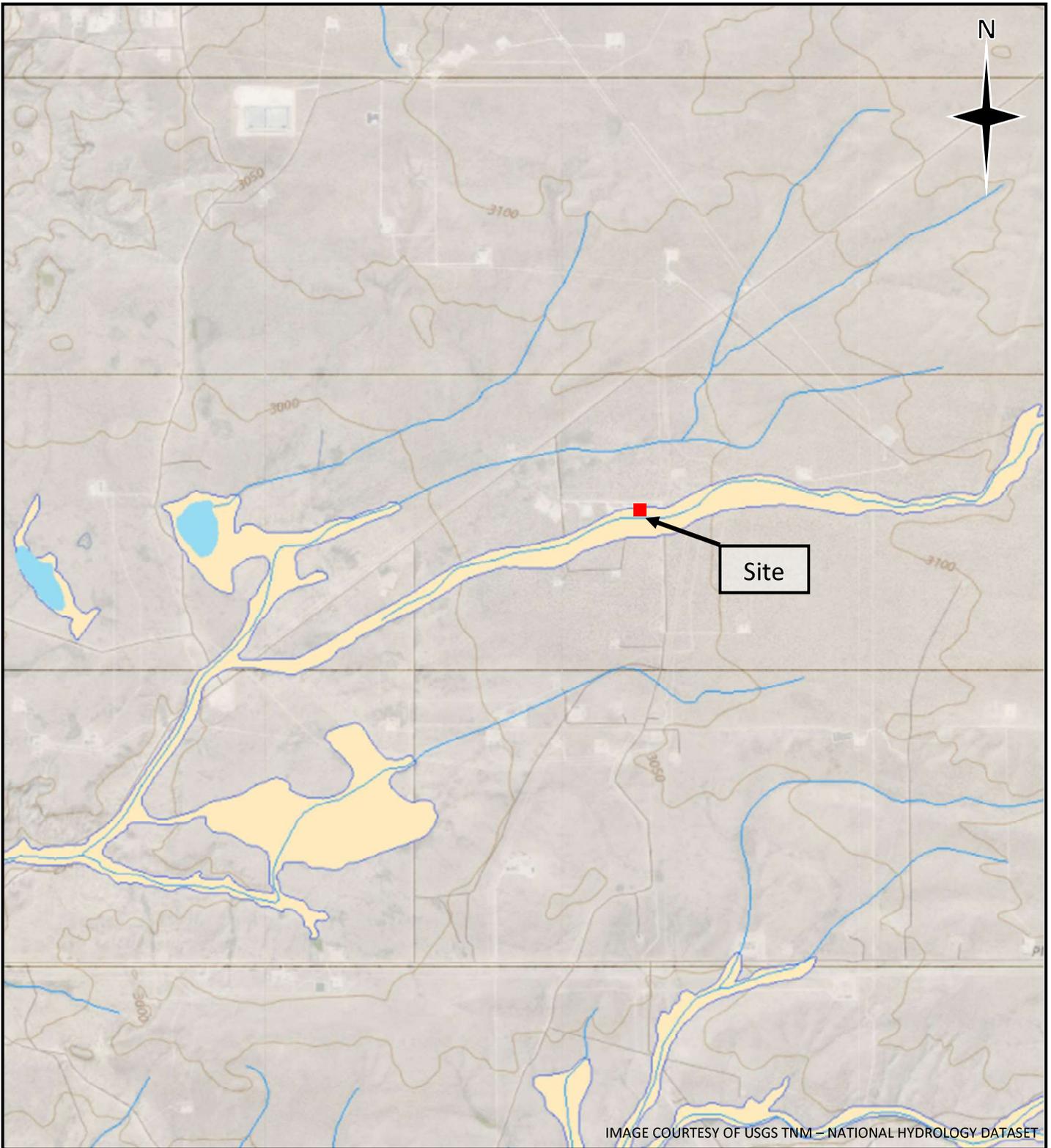
Figure 02 Site Map

Table 01 Soil Sample Results

Attachment 01 Closure Report 2016

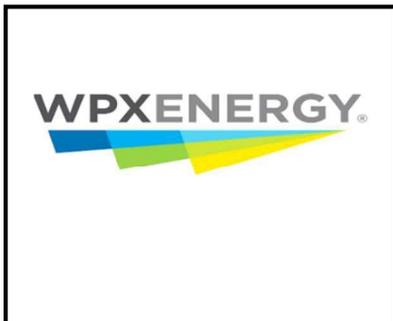
Attachment 02 Analytical Results

Figures



- Legend
- Site
 - ▬ OSE Water Body
 - 100 year Flood Plain

Figure 01
North Brushy Draw Federal 35 #009H
30-015-42220
Permian Basin, Eddy County, NM
N32.0926101, W103.9468205



Legend	
✕	Point of Release
○	Sample Locations from 2016 (reference Attachment 01)

Figure 02
 North Brushy Draw Federal 35 #009H
 30-015-42220
 Permian Basin, Eddy County, NM
 N32.0926101, W103.9468205

Table



**TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS
North Brushy Federal 35 #009H
NMOCD REFERENCE NUMBER: NAB1611035243**

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)
DS01	2	3/18/2021	<0.00201	-	<50.0	<50.0	70	70	70
DS01A	4	3/18/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-
DS02	2	3/18/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-
DS02A	4	3/18/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-
DS03	2	3/18/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-
DS03A	4	3/18/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-
DS04	2	3/18/2021	<0.00198	-	<49.8	<49.8	<49.8	-	-
DS04A	4	3/18/2021	0.00807	0.0236	<49.9	<49.9	<49.9	-	-
DS05	2	3/18/2021	<0.00202	-	<50.0	<50.0	<50.0	-	-
DS05A	4	3/18/2021	<0.00202	-	<49.9	<49.9	<49.9	-	-
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500

Reference: BTEX: benzene, toluene, ethylbenzene, and total xylenes mg/kg: milligrams per kilogram
 GRO: gasoline range organics NMOCD: New Mexico Oil Conservation Division
 DRO: diesel range organics TPH: total petroleum hydrocarbons
 ft bgs: feet below ground surface
 NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization
 * Samples were field screened with Hach® Chloride strips

North Brushy Draw Federal 35 #009H

Attachment 01: Photograph Log

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

NMOCD Artesia

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	WPX Energy Inc/ RKI E&P, LLC	Contact	Karolina Blaney
Address	3500 One Williams Center Tulsa, OK 74172	Telephone No.	970 589 0743
Facility Name:	North Brushy Draw	Facility Type :	Produced water gathering line
Surface Owner:	Federal	Mineral Owner:	Federal
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	1	26S	29E	330	FSL	500	FWL	Eddy

Latitude: 32.0926101 Longitude: -103.9468205

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 200 Bbls	Volume Recovered: 70 Bbls
Source of Release Leaking connection on header manifold	Date and Hour of Occurrence 05/08/16	Date and Hour of Discovery 05/08/16 – 11:50hrs MT
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Message left at Artesia Field Office	
By Whom? Lucas Smith	Date and Hour: 05/08/16– 1504hrs MT	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* See Attached Report.		
Describe Area Affected and Cleanup Action Taken.* See Attached Report.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Karolina Blaney	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 11/1/2016	Expiration Date: N/A
E-mail Address: Karolina.blaney@wpxenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/19/16	Phone: 970 589 0743	Final

* Attach Additional Sheets If Necessary

2RP-3684



December 13, 2017

Spill Closure Report: North Brushy Draw 35-9H (Section 35 T25S R 29E)
API: 30-015-42220
Incident Report: 2RP-3649

Prepared For: **WPX Energy Inc.**
5315 Buena Vista
Carlsbad, New Mexico 88220

NMOCD District 2
811 S. 1st Street
Artesia, New Mexico 88210

Mr. Mike Bratcher,

RKI Exploration, LLC, a subsidiary of WPX Energy Inc., retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release related to a dump valve malfunction on North Brushy Draw 35-9H, API 30-015-42220 (hereafter referred to as "site"). This letter provides a description of the Spill Assessment and includes a request for Spill Closure.

Site Information

The site is located approximately 28 miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 25, Township 25 South and Range 29 East in Eddy County, New Mexico (approximately 32°33.709"N 103° 56'50.2224"W). The affected property is leased from the Bureau of Land Management (BLM). An aerial photograph and site schematic are included in Attachment 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2014-2017) indicates the site's surface geology is comprised primarily of Qep ---- Eolian and Piedmont deposits (Holocene to middle Pleistocene). This usually includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope and alluvial fans. The Natural Resource Conservation Services identifies the local soils as primarily BB ---- Berino complex, 0 – 3 percent slope, characterized as being well drained, containing 40% calcium carbonate and being very slightly saline. These soils have a typical profile of fine sand in the top 0 – 17 inches, underlain by sandy clay loam and loamy sand, and are deep to a restrictive feature; they are not well suited for agricultural use. These descriptions are consistent with observations during the site visit. Site photographs obtained during the Spill Assessment are included in Attachment 2.

Incident Description

The spill, reported April 15, 2016, involved the release of approximately 30 barrels (bbls) of produced water from the pipe to the flare stack. The release was caused by a dump valve malfunction sending produced water to the flare

vertex.ca

7223 Empire Central Drive, Houston, Texas 77040, USA | P 832.588.0674

stack. Approximately 30 bbls of produced water were estimated to have been released; 28 bbls were recovered. The initial C-141 Report: 2RP-3649 is included in Attachment 3.

Groundwater, Point of Diversion and Site Ranking

The New Mexico State Engineer web site (New Mexico Water Rights Reporting System – Water Column Report) indicates that the nearest ground water data available for S35-T25S-R29E is approximately 15,400 ft from the site. The ground water in the area is reported to be at an average depth of 139 feet below ground surface (BGS). The referenced ground water data are presented in Attachment 4.

Based on the information obtained, the ranking for the site in question is **0** based on the following:

Depth to Ground Water	>100 ft
Wellhead Protection Area	>1,000 ft
Distance to Surface Water Body	>1,000 ft

Based on a site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for total petroleum hydrocarbons. Based on previous communication with the NMOCD, 1,000 mg/kg for total chlorides is considered to be an acceptable threshold for remediation.

The New Mexico State Engineer web site (New Mexico Water Rights Reporting System – Active & Inactive Points of Diversion) indicates that there are no diversions within 11,660 ft (Attachment 5).

Site Assessment

A site visit and investigatory soil assessment was completed on September 23, 2017, aimed to identify evidence of the spill in and around the location specified within the initial C-141. There was no evidence of surface staining or crystallization of salts. The Site Visit Report is included in Attachment 6. Seven boreholes were advanced at the site using a hand auger to assess the soils within the spill source area as well as site background. Soils were observed and field screened for chloride and hydrocarbon impacts prior to sampling. Using hand sampling techniques and dedicated sample containers, soil samples were collected and submitted to ALS Laboratories.

No produced water impacts were identified during the site visit within the former spill area as parameters of all analyzed samples were below the established RRALs for the site (Table 1). The Site Visit Report is included in Attachment 6. Laboratory results of the soil sampling investigation are included in Attachment 7.

WPX Energy Inc.
North Brushy Draw 35-9H

2017 Spill Assessment and Closure
November 2017

Table 1 - Soil Sampling Results September 23, 2017

Sample ID	Depth	Test	Result	Units
BH17-01	2-4'	Chloride	72	mg/Kg-dry
BH17-02	0-2'	Chloride	57	mg/Kg-dry
BH17-03	2-4'	GRO (C6-C10)	0	mg/Kg-dry
BH17-03	2-4'	DRO (C10-C28)	16	mg/Kg-dry
BH17-03	2-4'	ORO (C28-C40)	0	mg/Kg-dry
BH17-03	2-4'	Benzene	0	mg/Kg-dry
BH17-03	2-4'	Ethylbenzene	0	mg/Kg-dry
BH17-03	2-4'	Toluene	0	mg/Kg-dry
BH17-03	2-4'	Xylenes, Total	0	mg/Kg-dry
BH17-03	2-4'	Chloride	380	mg/Kg-dry
BH17-04	2-4'	Chloride	69	mg/Kg-dry
BH17-05	2-4'	Chloride	76	mg/Kg-dry
BH17-06	2-4'	Chloride	0	mg/Kg-dry
BH17-07	2-4'	Chloride	0	mg/Kg-dry

RRAL - 50 mg/kg BTEX, 10 mg/kg Benzene, 5,000 mg/kg TPH, 1,000 mg/kg Chloride

Closure Request

Initial response addressed concerns that were readily accessible around existing infrastructure on the operating site. Approximately 28 bbls of the 30 bbls released were recovered by hydro-vac and removing affected soil from the site. The spill occurred on the well pad and at the northeast site boundary. During the site visit conducted September 23, 2017, no visible impacts were noted where the spill may have occurred.

According to NMOCD guidelines for remediation, the RRALs suggested for this site are the most conservative based on depth to groundwater, wellhead protection area and distance to the nearest surface water diversion. The soil sampling investigation performed in conjunction with the site visit September 23, 2017 indicated that no residual impacts in excess of the established RRALs exist at site. Based on these findings, WPX Energy Inc. requests that this spill be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 403.542.6426 or cdavison@vertex.ca.

Sincerely,



Carl Davison, B.Sc.
PROJECT MANAGER

vertex.ca

7223 Empire Central Drive, Houston, Texas 77040, USA | P 832.588.0674

WPX Energy Inc.
North Brushy Draw 35-9H

2017 Spill Assessment and Closure
November 2017

Attachments

- Attachment 1. Aerial Photograph
- Attachment 2. Site Photographs
- Attachment 3. Initial C-141 Report
- Attachment 4. Ground Water Information
- Attachment 5. Diversion Information
- Attachment 6. Site Visit Daily Field Report
- Attachment 7. Laboratory Results

WPX Energy Inc.
North Brushy Draw 35-9H

2017 Spill Assessment and Closure
November 2017

References

New Mexico Oil Conservation Division. (1993). *Guidelines for Remediation of Leaks, Spills and Releases*. Santa Fe, New Mexico.

New Mexico Water Rights Reporting System. (2010). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/index.html>

New Mexico Water Rights Reporting System. (2010). *Point of Diversion Location Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/index.html>

New Mexico Bureau of Geology and Mineral Resources. (2014-2017). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>

USDA Natural Resources Conservation Service. (2017) *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

WPX Energy Inc.
North Brushy Draw 35-9H

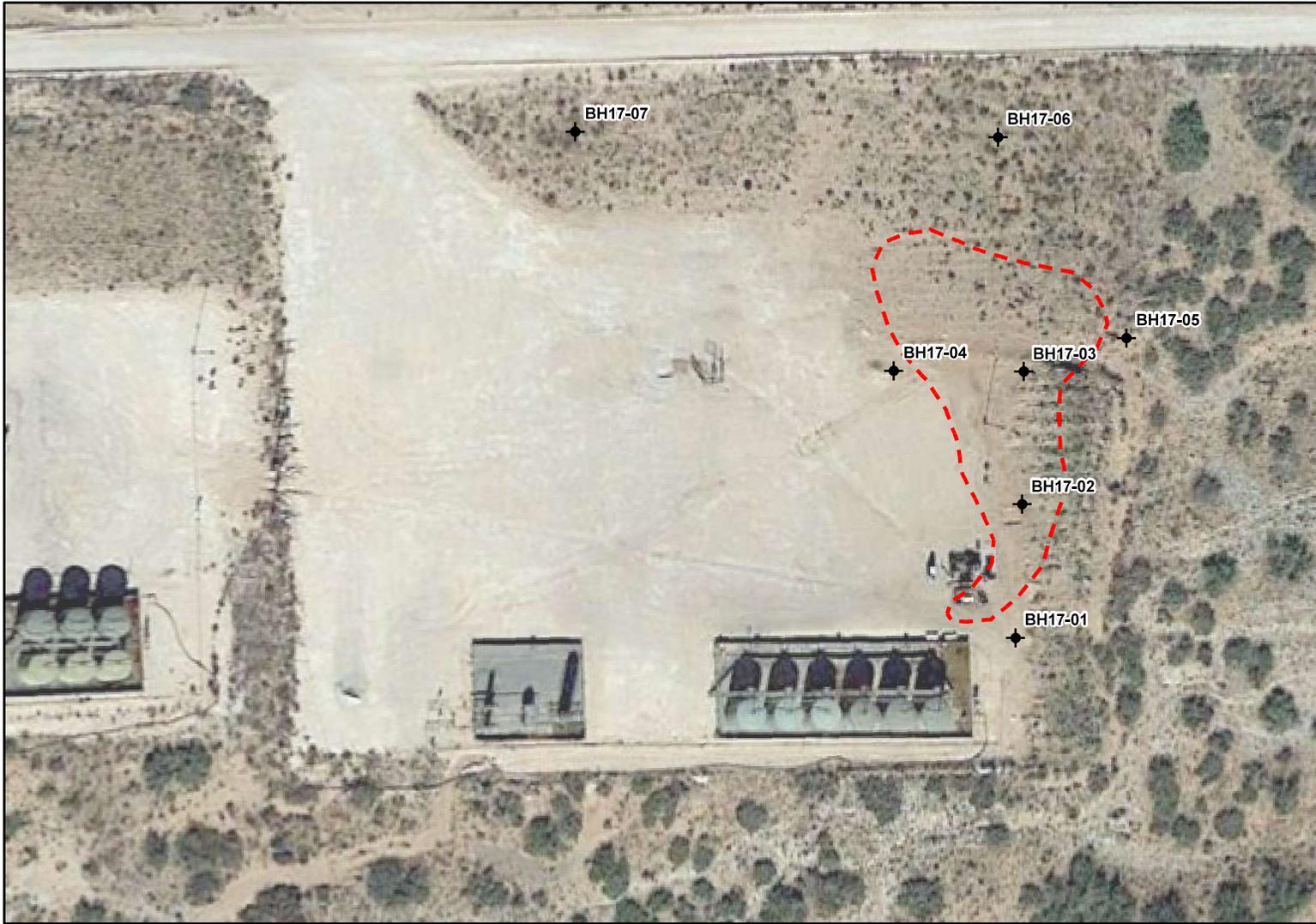
2017 Spill Assessment and Closure
November 2017

Limitations

This report has been prepared for the sole benefit of WPX Energy Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and WPX Energy Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1



Document Path: G:\1-Projects_US PROJECTS\WPX\17E-00043 Spill\Figures 1 Site Schematic N Bushy Draw 35-5H (17E-00043).mxd

Legend

- ◆ Sample Location
- ▭ Spill Area



Notes: Aerial Image from Google, 2015



ATTACHMENT 2

WPX Energy
North Brushy Draw 35-9H

Spill Assesment
November 2017



Photo 1. Spill area below flare stack

Photo Date: June 30, 2017 GPS: N: 32.092695 W: 103.947284



Photo 2. Overview of spill area

Photo Date: June 30, 2017 GPS: N: 32.092695 W: 103.947284

WPX Energy
North Brushy Draw 35-9H

Spill Assesment
November 2017



Photo 3. Spill Area sample location

Photo Date: September 16, 2017 GPS: N: 32.092695 W: 103.947284



Photo 4. Spill Area sample location Filled in

Photo Date: September 16, 2017 GPS: N: 32.092695 W: 103.947284

WPX Energy
North Brushy Draw 35-9H

Spill Assesment
November 2017



Photo 5. Background Sample Location

Photo Date: September 16, 2017 GPS: N: 32.092695 W: 103.947284



Photo 6. Background Sample Filled in

Photo Date: September 16, 2017 GPS: N: 32.092695 W: 103.947284

ATTACHMENT 3

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT Form C-141
Revised August 8, 2011
APR 18 2016
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.
RECEIVED

Release Notification and Corrective Action

NAB1611035243 **246289** **OPERATOR** Initial Report Final Report

Name of Company	WPX Energy Inc/ RKF E&P, LLC	Contact	Lucas Smith
Address	3500 One Williams Center Tulsa, OK 74172	Telephone No.	539-573-0176
Facility Name:	North Brushy Draw 35-9H	Facility Type :	Oil and Gas Well
Surface Owner:	Federal	Mineral Owner:	Federal
		API No.	30-015-42220

LOCATION OF RELEASE

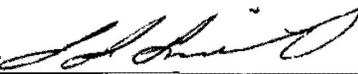
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	35	25S	29E	300	FNL	260	FEL	Eddy

Latitude: 32.092610 Longitude: -103.9468205

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 30 Bbls	Volume Recovered: 28 Bbls
Source of Release Dump valve malfunction sent produced water to flare	Date and Hour of Occurrence 04/15/16	Date and Hour of Discovery 04/15/16 - 1500hrs MT
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Message left at Artesia Field Office	
By Whom? Lucas Smith	Date and Hour: 04/16/16 - 1208hrs MT	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Dump valve malfunction sent produced water to flare		
Describe Area Affected and Cleanup Action Taken.* Fluid was standing around the flare. Vacuum truck was dispatched to recover free standing fluid, approximately 28 Bbls recovered. Offsite affected soil will be dug and hauled. Confirmation samples will be collected.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Lucas Smith	Approved by Environmental Specialist: 	
Title: EHS Manager	Approval Date: 4/19/16	Expiration Date: N/A
E-mail Address: Lucas.smith@wpxenergy.com	Conditions of Approval: <input type="checkbox"/> Attached	
Date: 04/18/16 Phone: 539-573-0176	Remediation per O.C.D. Rules & Guidelines	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 5/20/16 **2RP-3649**

ATTACHMENT 4



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02371	C	ED		2	3	15	25S	29E		596741	3555106*	4693	200	60	140
C 02680	C	ED		2	3	15	25S	29E		596741	3555106*	4693	200		
C 01360	C	ED		4	3	3	05	26S	30E	602997	3548152	4759	770	173	597
C 01361		ED		3	4	3	05	26S	30E	603240	3548157	4946	775	184	591

Average Depth to Water: **139 feet**
 Minimum Depth: **60 feet**
 Maximum Depth: **184 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 599336.94

Northing (Y): 3551195.19

Radius: 5000

*UTM location was derived from PLSS - see Help

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

ATTACHMENT 5



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	(quarters are small)				
									6	4	4		
C 03617	C	STK	0	W.P. RANCHES FAMILY	ED	C 03617 POD1			3	4	3	14	2
C 02371	C	STK	3	TRAN KING & WESTERN COMM. BANK	ED	C 02371		Shallow	2	3	15	2	
C 02680	C	STK	3	TRAN KING AND WESTERN COMMERCE BANK	ED	C 02680			2	3	15	2	
C 01360		IND	0	EL PASO NATURAL GAS	ED	C 01360		Shallow	4	3	3	05	2
C 03448	C	PRO	0	DEVON ENERGY CORP.	ED	C 01360		Shallow	4	3	3	05	2
C 03449	C	PRO	0	OGX RESOURCES	ED	C 01360		Shallow	4	3	3	05	2
C 01361		IND	0	EL PASO NATURAL GAS	ED	C 01361		Shallow	3	4	3	05	2

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW)
C=the file is closed) (quarters are small)

Record Count: 7

POD Search:

POD Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 599336.94

Northing (Y): 3551195.19

Radius: 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

ATTACHMENT 6



Daily Field Report

Client:	<u>WPX</u>	Date:	<u>September 23, 2017</u>
Site Location:	<u>North Brushy Draw 35-9H</u>	Shift:	<u>Day</u>
Field Consultant:	<u>Robyn Fisher</u>	Project #:	<u>17E-00043</u>
Project Manager:	<u>Carl Davison</u>	AFE #:	<u></u>

Summary of Daily Operations

Drove out on site to Hand Auger for soil samples.
 Dug down to 4 feet taking samples every foot for samples. (0-2, 2-4).
 Took pictures of each hole after it was dug and after it was filled back in.
 Completed field Screening using quantabs for chlorides and PID for VOC and Hydrocarbon.
 Packing Samples in jars supplied by ALS Environmental Labs.
 Drove back to Carlsbad and put all samples collected into the fridge.

Planned Activities and Recommendations

No further Planned activities or Recommendations at this time.

Cost Summary

Vertex							
Name	Hours	Rate	Total	Equipment	Units	Rate	Total
Robyn Fisher	9.5		\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
			\$0.00				\$0.00
Total:			\$0.00	Total:			\$0.00
						Vertex Total:	\$0.00

Laboratory Analysis

Laboratory	Lab Report	Estimate

Third Party Service

Date	Contractor	Work Description	Ticket #	Estimate
Third Party Service Total:				\$0.00

ATTACHMENT 7



13-Oct-2017

Karolina Blaney
WPX Energy
5315 Buena Vista Dr.
Carlsbad, NM 88220

Re: **North Brushy Draw (NBD) 35-9H**

Work Order: **17091503**

Dear Karolina,

ALS Environmental received 14 samples on 26-Sep-2017 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Work Order: 17091503

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
17091503-01	BH17-01 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-02	BH17-01 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-03	BH17-02 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-04	BH17-02 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-05	BH17-03 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-06	BH17-03 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-07	BH17-04 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-08	BH17-04 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-09	BH17-05 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-10	BH17-05 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-11	BH17-06 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-12	BH17-06 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-13	BH17-07 (0-2 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>
17091503-14	BH17-07 (2-4 ft)	Soil		9/23/2017	9/26/2017 09:00	<input type="checkbox"/>

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
WorkOrder: 17091503

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-01 (2-4 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE			A4500-CL E-11	Prep: EXTRACT	10/11/17 15:30	Analyst: ED
Chloride	72		12	mg/Kg-dry	1	10/11/2017 03:45 PM
MOISTURE			SW3550C			Analyst: NW
Moisture	15		0.050	% of sample	1	10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-02 (0-2 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE			A4500-CL E-11	Prep: EXTRACT	10/11/17 15:30	Analyst: ED
Chloride	57		11	mg/Kg-dry	1	10/11/2017 03:45 PM
MOISTURE			SW3550C			Analyst: NW
Moisture	11		0.050	% of sample	1	10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
 Project: North Brushy Draw (NBD) 35-9H
 Sample ID: BH17-03 (2-4 ft)
 Collection Date: 9/23/2017

Work Order: 17091503
 Lab ID: 17091503-06
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015C	Prep: SW3546	10/3/17 13:19	Analyst: KB
DRO (C10-C28)	16		11	mg/Kg-dry	1	10/3/2017 05:24 PM
ORO (C28-C40)	ND		11	mg/Kg-dry	1	10/3/2017 05:24 PM
Surr: 4-Terphenyl-d14	84.1		34-130	%REC	1	10/3/2017 05:24 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D	Prep: SW5035	10/3/17 13:26	Analyst: KB
GRO (C6-C10)	ND		5.8	mg/Kg-dry	1	10/4/2017 07:30 AM
Surr: Toluene-d8	94.0		71-123	%REC	1	10/4/2017 07:30 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035	10/3/17 15:16	Analyst: BG
Benzene	ND		0.035	mg/Kg-dry	1	10/3/2017 06:35 PM
Ethylbenzene	ND		0.035	mg/Kg-dry	1	10/3/2017 06:35 PM
m,p-Xylene	ND		0.069	mg/Kg-dry	1	10/3/2017 06:35 PM
o-Xylene	ND		0.035	mg/Kg-dry	1	10/3/2017 06:35 PM
Toluene	ND		0.035	mg/Kg-dry	1	10/3/2017 06:35 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	10/3/2017 06:35 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	10/3/2017 06:35 PM
Surr: 4-Bromofluorobenzene	89.7		70-130	%REC	1	10/3/2017 06:35 PM
Surr: Dibromofluoromethane	96.2		70-130	%REC	1	10/3/2017 06:35 PM
Surr: Toluene-d8	98.8		70-130	%REC	1	10/3/2017 06:35 PM
CHLORIDE			A4500-CL E-11	Prep: EXTRACT	10/11/17 15:30	Analyst: ED
Chloride	380		11	mg/Kg-dry	1	10/11/2017 03:45 PM
MOISTURE			SW3550C			Analyst: NW
Moisture	7.2		0.050	% of sample	1	10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-04 (2-4 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE			A4500-CL E-11	Prep: EXTRACT	10/11/17 15:30	Analyst: ED
Chloride	69		12	mg/Kg-dry	1	10/11/2017 03:45 PM
MOISTURE			SW3550C			Analyst: NW
Moisture	15		0.050	% of sample	1	10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-05 (2-4 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE			A4500-CL E-11	Prep: EXTRACT 10/11/17 15:30		Analyst: ED
Chloride	76		11	mg/Kg-dry	1	10/11/2017 03:45 PM
MOISTURE			SW3550C			Analyst: NW
Moisture	6.0		0.050	% of sample	1	10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-06 (2-4 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-12
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE Chloride	ND		A4500-CL E-11 10	mg/Kg-dry	Prep: EXTRACT 10/11/17 15:30 1	Analyst: ED 10/11/2017 03:45 PM
MOISTURE Moisture	2.9		SW3550C 0.050	% of sample	1	Analyst: NW 10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
Project: North Brushy Draw (NBD) 35-9H
Sample ID: BH17-07 (2-4 ft)
Collection Date: 9/23/2017

Work Order: 17091503
Lab ID: 17091503-14
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLORIDE Chloride	ND		A4500-CL E-11 10	mg/Kg-dry	Prep: EXTRACT 10/11/17 15:30 1	Analyst: ED 10/11/2017 03:45 PM
MOISTURE Moisture	2.0		SW3550C 0.050	% of sample	1	Analyst: NW 10/3/2017 07:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Oct-17

Client: WPX Energy
 Work Order: 17091503
 Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: 108365 Instrument ID GC8 Method: SW8015C

MBLK		Sample ID: DBLKS1-108365-108365				Units: mg/Kg		Analysis Date: 10/3/2017 02:30 PM		
Client ID:		Run ID: GC8_171003A		SeqNo: 4674165		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
ORO (C28-C40)	ND	5.0								
Surr: 4-Terphenyl-d14	2.4	0	3.33	0	72.1	34-130	0			

LCS		Sample ID: DLCSS1-108365-108365				Units: mg/Kg		Analysis Date: 10/3/2017 02:59 PM		
Client ID:		Run ID: GC8_171003A		SeqNo: 4674167		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	316.6	5.0	333	0	95.1	65-122	0			
ORO (C28-C40)	312	5.0	333	0	93.7	81-116	0			
Surr: 4-Terphenyl-d14	2.483	0	3.33	0	74.6	34-130	0			

MS		Sample ID: 17091207-08B MS				Units: mg/Kg		Analysis Date: 10/3/2017 03:57 PM		
Client ID:		Run ID: GC8_171003A		SeqNo: 4675542		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	296.7	4.8	320.6	2.982	91.6	65-122	0			
ORO (C28-C40)	294.4	4.8	320.6	0	91.8	81-116	0			
Surr: 4-Terphenyl-d14	2.423	0	3.206	0	75.6	34-130	0			

MSD		Sample ID: 17091207-08B MSD				Units: mg/Kg		Analysis Date: 10/3/2017 04:26 PM		
Client ID:		Run ID: GC8_171003A		SeqNo: 4675523		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	316.2	4.9	325	2.982	96.4	65-122	296.7	6.37	30	
ORO (C28-C40)	310.7	4.9	325	0	95.6	81-116	294.4	5.4	30	
Surr: 4-Terphenyl-d14	2.375	0	3.25	0	73.1	34-130	2.423	1.99	30	

The following samples were analyzed in this batch: 17091503-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 17091503
Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: **108407** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-108407-108407				Units: µg/Kg-dry		Analysis Date: 10/4/2017 01:06 AM		
Client ID:		Run ID: GC9_171003B		SeqNo: 4676839		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	5,000								
<i>Surr: Toluene-d8</i>	4792	0	5000	0	95.8	71-123	0			

LCS		Sample ID: LCS-108407-108407				Units: µg/Kg-dry		Analysis Date: 10/4/2017 12:07 PM		
Client ID:		Run ID: GC9_171003B		SeqNo: 4676858		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	406600	5,000	500000	0	81.3	71-123	0			
<i>Surr: Toluene-d8</i>	5498	0	5000	0	110	71-123	0			

MS		Sample ID: 17091503-06A MS				Units: µg/Kg-dry		Analysis Date: 10/4/2017 08:59 AM		
Client ID: BH17-03 (2-4 ft)		Run ID: GC9_171003B		SeqNo: 4676853		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	511900	5,800	577600	0	88.6	71-123	0			
<i>Surr: Toluene-d8</i>	6567	0	5776	0	114	71-123	0			

MSD		Sample ID: 17091503-06A MSD				Units: µg/Kg-dry		Analysis Date: 10/4/2017 09:28 AM		
Client ID: BH17-03 (2-4 ft)		Run ID: GC9_171003B		SeqNo: 4676854		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	487200	5,800	577600	0	84.4	71-123	511900	4.94	30	
<i>Surr: Toluene-d8</i>	6403	0	5776	0	111	71-123	6567	2.53	30	

The following samples were analyzed in this batch:

17091503-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
 Work Order: 17091503
 Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: 108417 Instrument ID VMS10 Method: SW8260B

MBLK		Sample ID: MBLK-108417-108417			Units: µg/Kg-dry			Analysis Date: 10/3/2017 06:19 PM		
Client ID:		Run ID: VMS10_171003A			SeqNo: 4676158		Prep Date: 10/3/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1006	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	910.5	0	1000	0	91	70-130	0			
Surr: Dibromofluoromethane	958.5	0	1000	0	95.8	70-130	0			
Surr: Toluene-d8	981	0	1000	0	98.1	70-130	0			

LCS		Sample ID: LCS-108417-108417			Units: µg/Kg-dry			Analysis Date: 10/3/2017 05:31 PM		
Client ID:		Run ID: VMS10_171003A			SeqNo: 4676157		Prep Date: 10/3/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1013	30	1000	0	101	75-125	0			
Ethylbenzene	1050	30	1000	0	105	75-125	0			
m,p-Xylene	2126	60	2000	0	106	80-125	0			
o-Xylene	1054	30	1000	0	105	75-125	0			
Toluene	1015	30	1000	0	102	70-125	0			
Xylenes, Total	3180	90	3000	0	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	977	0	1000	0	97.7	70-130	0			
Surr: 4-Bromofluorobenzene	1054	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	967.5	0	1000	0	96.8	70-130	0			
Surr: Toluene-d8	1034	0	1000	0	103	70-130	0			

MS		Sample ID: 17091503-06A MS			Units: µg/Kg-dry			Analysis Date: 10/3/2017 11:54 PM		
Client ID: BH17-03 (2-4 ft)		Run ID: VMS10_171003A			SeqNo: 4676176		Prep Date: 10/3/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1023	35	1155	0	88.6	75-125	0			
Ethylbenzene	1136	35	1155	0	98.4	75-125	0			
m,p-Xylene	2292	69	2310	0	99.2	80-125	0			
o-Xylene	1166	35	1155	0	101	75-125	0			
Toluene	1097	35	1155	0	95	70-125	0			
Xylenes, Total	3459	100	3466	0	99.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	985.9	0	1155	0	85.4	70-130	0			
Surr: 4-Bromofluorobenzene	1221	0	1155	0	106	70-130	0			
Surr: Dibromofluoromethane	969.2	0	1155	0	83.9	70-130	0			
Surr: Toluene-d8	1200	0	1155	0	104	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 17091503
Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: 108417 Instrument ID VMS10 Method: SW8260B

MSD		Sample ID: 17091503-06A MSD				Units: µg/Kg-dry		Analysis Date: 10/4/2017 12:10 PM		
Client ID: BH17-03 (2-4 ft)		Run ID: VMS10_171003A		SeqNo: 4676177		Prep Date: 10/3/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1075	35	1155	0	93.1	75-125	1023	5.01	30	
Ethylbenzene	1203	35	1155	0	104	75-125	1136	5.68	30	
m,p-Xylene	2393	69	2310	0	104	80-125	2292	4.29	30	
o-Xylene	1211	35	1155	0	105	75-125	1166	3.79	30	
Toluene	1137	35	1155	0	98.4	70-125	1097	3.62	30	
Xylenes, Total	3604	100	3466	0	104	75-125	3459	4.12	30	
Surr: 1,2-Dichloroethane-d4	978.4	0	1155	0	84.7	70-130	985.9	0.764	30	
Surr: 4-Bromofluorobenzene	1207	0	1155	0	104	70-130	1221	1.19	30	
Surr: Dibromofluoromethane	970.3	0	1155	0	84	70-130	969.2	0.119	30	
Surr: Toluene-d8	1192	0	1155	0	103	70-130	1200	0.628	30	

The following samples were analyzed in this batch:

17091503-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 17091503
Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: **108871** Instrument ID **GALLERY** Method: **A4500-CI E-11**

MBLK	Sample ID: MBLK-108871-108871				Units: mg/Kg		Analysis Date: 10/11/2017 03:45 PM			
Client ID:	Run ID: GALLERY_171011A			SeqNo: 4692956		Prep Date: 10/11/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride ND 10

MS	Sample ID: 17091851-05B MS				Units: mg/Kg		Analysis Date: 10/11/2017 03:45 PM			
Client ID:	Run ID: GALLERY_171011A			SeqNo: 4692977		Prep Date: 10/11/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 505.2 9.9 493.1 8.608 101 75-125 0

MSD	Sample ID: 17091851-05B MSD				Units: mg/Kg		Analysis Date: 10/11/2017 03:45 PM			
Client ID:	Run ID: GALLERY_171011A			SeqNo: 4692978		Prep Date: 10/11/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 499.9 9.9 494.1 8.608 99.4 75-125 505.2 1.06 25

LCS1	Sample ID: LCS1-108871-108871				Units: mg/Kg		Analysis Date: 10/11/2017 03:45 PM			
Client ID:	Run ID: GALLERY_171011A			SeqNo: 4692979		Prep Date: 10/11/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 99.47 10 100 0 99.5 80-120 0

LCS2	Sample ID: LCS2-108871-108871				Units: mg/Kg		Analysis Date: 10/11/2017 03:45 PM			
Client ID:	Run ID: GALLERY_171011A			SeqNo: 4692980		Prep Date: 10/11/2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 497.3 10 500 0 99.5 80-120 0

The following samples were analyzed in this batch:

17091503-02A	17091503-03A	17091503-06B
17091503-08A	17091503-10A	17091503-12A
17091503-14A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 17091503
Project: North Brushy Draw (NBD) 35-9H

QC BATCH REPORT

Batch ID: **R221420** Instrument ID **MOIST** Method: **SW3550C**

MBLK	Sample ID: WBLKS-R221420				Units: % of sample			Analysis Date: 10/3/2017 07:45 PM		
Client ID:	Run ID: MOIST_171003H			SeqNo: 4676661		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R221420				Units: % of sample			Analysis Date: 10/3/2017 07:45 PM		
Client ID:	Run ID: MOIST_171003H			SeqNo: 4676660		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 17091503-02A DUP				Units: % of sample			Analysis Date: 10/3/2017 07:45 PM		
Client ID: BH17-01 (2-4 ft)	Run ID: MOIST_171003H			SeqNo: 4676651		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.17 0.050 0 0 0 0-0 15.14 0.198 5

DUP	Sample ID: 17091503-08A DUP				Units: % of sample			Analysis Date: 10/3/2017 07:45 PM		
Client ID: BH17-04 (2-4 ft)	Run ID: MOIST_171003H			SeqNo: 4676655		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.06 0.050 0 0 0 0-0 14.6 3.77 5

The following samples were analyzed in this batch:

17091503-02A	17091503-03A	17091503-06B
17091503-08A	17091503-10A	17091503-12A
17091503-14A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 202r8

PROJECT NAME		North Brushy Draw (NBD) 35-9H	SAMPLER		SITE ID		North Brushy Draw (NBD) 35-9H	DATE		25/09/2017	
PROJECT No.		17E-00043	EDD FORMAT		PURCHASE ORDER		TURNAROUND		5 days		
COMPANY NAME		WPX Energy	BILL TO COMPANY		INVOICE ATTN TO		ADDRESS		5315 Buena Vista Dr		
SEND REPORT TO		Blaney	CITY / STATE / ZIP		PHONE		CITY / STATE / ZIP		Carlsbad, NM 88220		
PHONE			FAX		E-MAIL		E-MAIL		Karolina.blaney@wpxenergy.com; James.Raley@wpxenergy.com		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO + GRO + ORO	BTEX	Chloride	Hold
1	BH17-01 (0-2 ft)	S	23/09/2017		4						x
2	BH17-01 (2-4 ft)	S	23/09/2017		4						x
3	BH17-02 (0-2 ft)	S	23/09/2017		4						x
4	BH17-02 (2-4 ft)	S	23/09/2017		4						x
5	BH17-03 (0-2 ft)	S	23/09/2017		4						x
6	BH17-03 (2-4 ft)	S	23/09/2017		4						x
7	BH17-04 (0-2 ft)	S	23/09/2017		4						x
8	BH17-04 (2-4 ft)	S	23/09/2017		4						x
9	BH17-05 (0-2 ft)	S	23/09/2017		4						x
10	BH17-05 (2-4 ft)	S	23/09/2017		4						x

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments: <i>SR2 4.9°C</i>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINT NAME
RELINQUISHED BY	<i>Karolina Blaney</i>	Karolina Blaney
RECEIVED BY	<i>[Signature]</i>	Kerry L.
RELINQUISHED BY		
RECEIVED BY		
RELINQUISHED BY		
RECEIVED BY		



ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 202a

SAMPLER		DATE	
SITE ID		25/09/2017	
PROJECT NAME	North Brushy Draw (NBD) 35-9H	SITE ID	North Brushy Draw (NBD) 35-9H
PROJECT No.	17E-00043	EDD FORMAT	
COMPANY NAME	WPX Energy	PURCHASE ORDER	
SEND REPORT TO	Blaney	BILL TO COMPANY	WPX Energy
ADDRESS		INVOICE ATTN TO	Karolina Blaney
CITY/STATE/ZIP		ADDRESS	5315 Buena Vista Dr
PHONE		CITY/STATE/ZIP	Carlsbad, NM 88220
FAX		PHONE	970 589 0743
E-MAIL	Karolina.blaney@wpxenergy.com; james.raley@wpxenergy.com	E-MAIL	Karolina.blaney@wpxenergy.com; James.Raley@wpxenergy.com

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO + GRO + ORO	BTEX	Chloride	Hold
11	BH17-08 (0-2 ft)	S	23/09/2017		4						x
12	BH17-06 (2-4 ft)	S	23/09/2017		4						x
13	BH17-07 (0-2 ft)	S	23/09/2017		4						x
14	BH17-07 (2-4 ft)	S	23/09/2017		4						x

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINT NAME
RELINQUISHED BY	<i>Karolina Blaney</i>	Karolina Blaney
RECEIVED BY	<i>[Signature]</i>	Kevin
RELINQUISHED BY		
RECEIVED BY		
RELINQUISHED BY		
RECEIVED BY		

ALS Group, USA

Sample Receipt Checklist

Client Name: **WPX - NM**

Date/Time Received: **26-Sep-17 09:00**

Work Order: **17091503**

Received by: **KRW**

Checklist completed by *Lee Arndell* 26-Sep-17
eSignature Date

Reviewed by: *Chad Whilton* 27-Sep-17
eSignature Date

Matrices: **Soil**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="4.8/4.8 C"/>		<input type="text" value="SR2"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="9/26/2017 1:38:27 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Attachment 02: Analytical Reports

Analyte	CAS Number	Units	Specific Method
Benzene	71-43-2	mg/Kg	Volatile Organic Compounds (GC)
Chloride	16887-00-6	mg/Kg	Anions, Ion Chromatography
Diesel Range Organics (Over C10-C28)	N/A	mg/Kg	Diesel Range Organics (DRO) (GC)
Ethylbenzene	100-41-4	mg/Kg	Volatile Organic Compounds (GC)
Gasoline Range Organics (GRO)-C6-C10	8006-61-9	mg/Kg	Diesel Range Organics (DRO) (GC)
m-Xylene & p-Xylene	179601-23-1	mg/Kg	Volatile Organic Compounds (GC)
Oil Range Organics (Over C28-C36)	N/A	mg/Kg	Diesel Range Organics (DRO) (GC)
o-Xylene	95-47-6	mg/Kg	Volatile Organic Compounds (GC)
Toluene	108-88-3	mg/Kg	Volatile Organic Compounds (GC)
Total BTEX	N/A	mg/Kg	Volatile Organic Compounds (GC)
Total TPH	N/A	mg/Kg	Diesel Range Organics (DRO) (GC)
Xylenes, Total	1330-20-7	mg/Kg	Volatile Organic Compounds (GC)

*****Preliminary Results***** Final Analytical will replace this place holder

Basis	890-397-1 DS01 3/18/2021 10:30 AM	890-397-2 DS01A 3/18/2021 10:35 AM	890-397-3 DS02 3/18/2021 10:40 AM	890-397-4 DS02A 3/18/2021 10:45 AM	890-397-5 DS03 3/18/2021 10:50 AM	890-397-6 DS03A 3/18/2021 10:55 AM
Total	<0.00202 U	<0.00201 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00198 U
Soluble	39.1	32.8	<5.05 U	8.08	<4.97 U	<4.95 U
Total	<50.0 U	<49.9 U	<49.9 U	<50.0 U	<50.0 U	<50.0 U
Total	<0.00202 U	<0.00201 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00198 U
Total	<50.0 U	<49.9 U	<49.9 U	<50.0 U	<50.0 U	<50.0 U
Total	<0.00403 U	<0.00402 U	<0.00401 U	<0.00400 U	<0.00399 U	<0.00396 U
Total	70.0	<49.9 U	<49.9 U	<50.0 U	<50.0 U	<50.0 U
Total	<0.00202 U	<0.00201 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00198 U
Total	<0.00202 U	<0.00201 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00198 U
Total	<0.00202 U	<0.00201 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00198 U
Total	70.0	<49.9 U	<49.9 U	<50.0 U	<50.0 U	<50.0 U
Total	<0.00403 U	<0.00402 U	<0.00401 U	<0.00400 U	<0.00399 U	<0.00396 U

890-397-8	890-397-9	890-397-10
DS04A	DS05	DS05A
3/18/2021	3/18/2021	3/18/2021
11:05 AM	11:10 AM	11:15 AM
0.00807	<0.00198 U	<0.00202 U
6.98	42.3	32.8
0.00769	<0.00198 U	<0.00202 U
<0.00399 U	<0.00397 U	<0.00403 U
0.00296	<0.00198 U	<0.00202 U
0.00484	<0.00198 U	<0.00202 U
0.0236	<0.00198 U	<0.00202 U
<0.00399 U	<0.00397 U	<0.00403 U

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 200928

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 200928
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/29/2023