

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

NOV 10 2016

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

RECEIVED

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

Release Notification and Corrective Action

NAB11031949226

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	WPX Energy Inc/RKI	240289	Contact	Karolina Blaney
Address	5315 Buena Vista Dr.		Telephone No.	970 589 0743
Facility Name:	RDU 61		Facility Type:	Well Pad

Surface Owner: Federal	Mineral Owner: Federal	API No. 30- 015-41980
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	27	26S	30E	990	FSL	710	FEL	Eddy

Latitude: 32.030564 N Longitude: -103.8912511 W

NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 15 Bbls	Volume Recovered: 13 Bbls
Source of Release Wellhead	Date and Hour of Occurrence 10/30/16	Date and Hour of Discovery 10/30/16 - 1030 hrs MT
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NMOCD Heather Patterson & Michael Bratcher, BLM Shelly Tucker	
By Whom? Karolina Blaney	Date and Hour: 11/10/16- 14:20 hrs 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.*

This spill was caused by mechanical failure. A stainless steel line between the wellhead and Murphy's switch failed allowing produced water and oil to spill on location. Approximately 10 bbls of water and 3 bbls of oil were recovered with a vac truck. This spill did not leave the well pad location.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was mapped and sampled for BTEX, TPH, and chlorides in accordance with NM OCD Guidelines for Remediation of Leaks, Spills, and Releases. The organic compounds tested below the OCD's cleanup thresholds however chloride concentrations are exceeding the cleanup standard of 1000 mg/kg. The impacted area will be delineated horizontally and vertically utilizing either a hand held auger or a backhoe. Further remediation will be based on the delineation results.

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>Karolina Blaney</i>	OIL CONSERVATION DIVISION	
Printed Name: Karolina Blaney	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Specialist	Approval Date: 11/14/16	Expiration Date: N/A
E-mail Address: Karolina.blaney@wpxenergy.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 11/10/2016	Phone: 970-589-0743	

* Attach Additional Sheets If Necessary

2RP-3989

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State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAB1631949226
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dmv.com	Incident # (assigned by OCD): nAB1631949226
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

Location of Release Source

Latitude 32.00880 Longitude -103.86279
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Draw Unit 61	Site Type: Well pad
Date Release Discovered: 10/30/2016	API# (if applicable): 30-015-41980

Unit Letter	Section	Township	Range	County
P	27	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil/Produced Water	Volume Released (bbls): 15	Volume Recovered (bbls): 13
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

This spill was caused by mechanical failure. A stainless-steel line between the wellhead and Murphy's switch failed allowing produced water and oil to spill on location. Approximately 10 bbls of water and 3 bbls of oil were recovered with a vac truck. This spill did not leave the well pad location.


$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21\ (bbl\ equivalent)} * estimated\ porosity\ (\%) + recovered\ fluids\ (bbl)$$

Incident ID	nAB1631949226
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>8/22/2023</u>
email: <u>Jim.Raley@dm.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAB1631949226
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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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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

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Incident ID	nAB1631949226
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Printed Name: Jim Raley Title: Environmental Professional

Signature:  Date: 8/22/2023

email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Shelly Wells Date: 8/22/2023

Incident ID	nAB1631949226
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Facility ID	
Application ID	

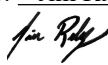
Closure

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: Jim RaleyTitle: Environmental ProfessionalSignature: Date: 08/22/2023email: Jim.Raley@dv.comTelephone: 575-689-7597

OCD Only

Received by: Shelly WellsDate: 8/22/2023

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: 09/01/2023Printed Name: Ashley MaxwellTitle: Environmental Specialist



CLOSURE REQUEST ADDENDUM

Ross Draw Unit 61
Eddy County, New Mexico
Incident Number nAB1631949226

Prepared for:
WPX Energy Permian, LLC

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

In response to a meeting with the New Mexico Oil Conservation Division (NMOCD) for the denial of a Closure Request Addendum (CRA), which addressed the only concern of inadequate determination of depth to groundwater from a denial associated with a previously submitted Closure Report (CR) for the Ross Draw Unit 61 (Site), Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following updated CRA that includes the CR with the complete remediation and laboratory analytical summaries. The previous CR and CRA were denied on March 27, 2023, and June 20, 2023, respectively due to the following reason(s):

March 27, 2023

- "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater."

June 20, 2023

- "Closure denied due to incomplete closure report. The following are missing: scaled site map/sampling diagram, description of remediation activities, photographs of the remediated site, and final sampling lab analyses."

Shelly Wells and Ashley Maxwell from NMOCD requested to resubmit this CRA with the updated groundwater determination and specifically the CR as an attachment, due to their inability to reference the CR in the NMOCD permitting files ([OCD Permitting - Incidents \(nm.gov\)](#)). Based on the updated CRA, correspondence and requests from NMOCD, WPX is requesting No Further Action (NFA) for Incident Number nAB1631949226.

SITE LOCATION AND BACKGROUND

The Site is located in Unit P, Section 27, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.00880°N, -103.86279°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management. (**Figure 1 in Appendix A**).

On October 30, 2016, mechanical failure of the well head caused approximately 15 barrels (bbls) of produced water and crude oil to be released onto the well pad. Vacuum trucks were immediately dispatched and recovered approximately 13 bbls of fluid. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on November 10, 2016, and was subsequently assigned Incident Number nAB1631949226.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;



- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

The nearest permitted water wells used in the CR with depth to water data was State of Texas Well Report (TWDB) well #327829, located approximately 1.8 miles south southeast of the Site and New Mexico Office of the State Engineer (NMOSE) well C-02165, located approximately 2.2 miles northeast of the Site. In 2020, WPX retained an environmental contractor and measured depth to water at TWDB well #327829 56.5 feet below ground surface (bgs). NMOSE well C-02165 has a reported depth of water 180 feet bgs from 1988. As such, WPX conservatively estimated depth to water at the Site to be between 51 feet and 100 feet bgs, based on the shallower depth to water measurement. However, due to the distances of the wells from the Site and/or the age of the groundwater measurement(s) (greater than 0.5 miles and greater than 25 years old), NMOCD determined the data to be insufficient to assist with the regional groundwater depth estimate at the Site.

Since the submittal of the CR, Talon LPE drilled a soil boring (MW-1) on December 9, 2020, located within 0.5 miles north of the Site on the Ross Draw Unit #55 well pad. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 106 feet and 7 inches bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. Well records for referenced wells are provided in **Appendix B**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and updated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria
Chloride	(Environmental Protection Agency) EPA 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

CLOSURE REQUEST

Following the recent completion of soil boring MW-1, located within 0.5 miles of the Site, depth to water determination at the Site has been further supported to be greater than 100 feet bgs. With the supplemental groundwater data, WPX has addressed all concerns in the denial responses from the NMOCD. NFA appears warranted at this time and the Site should be respectfully considered for Closure by the NMOCD. The previously submitted CR can be referenced in **Appendix C**.



If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

A handwritten signature in black ink that reads "Anna Byers".

Anna Byers
Senior Geologist

A handwritten signature in black ink that reads "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Managing Geologist

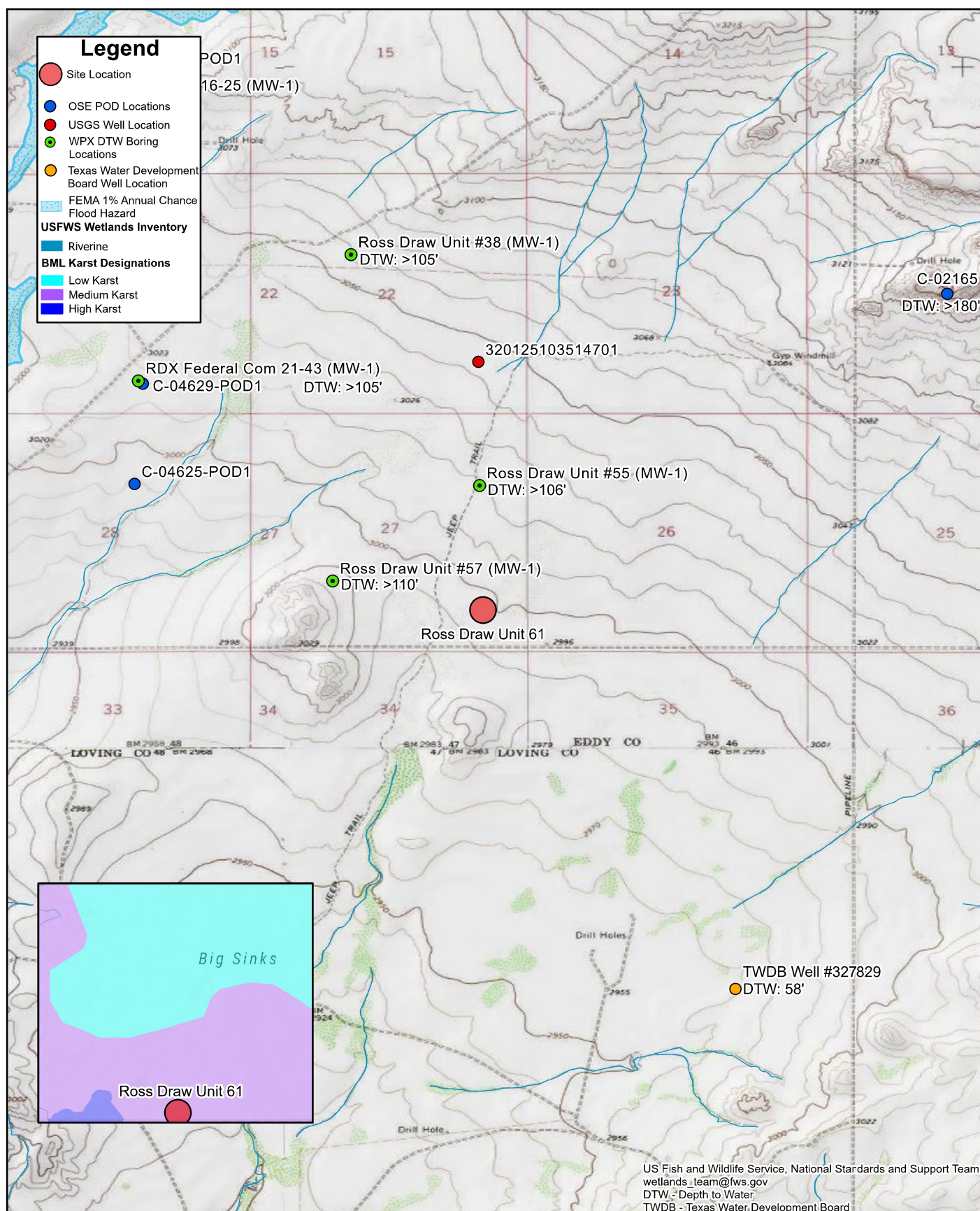
cc: Jim Raley, WPX
New Mexico Oil Conservation Division
Bureau of Land Management

Appendices:

- Appendix A:** Figure 1: Site Map
- Appendix B:** Referenced Well Records
- Appendix C:** Previously Submitted Closure Request

APPENDIX A

Figure 1: Site Map



APPENDIX B

Referenced Well Records

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

468923

Section 1. GENERAL INFORMATION

88 JUL 7 P1:12

(A) Owner of well Grace Oil Owner's Well No. _____
Street or Post Office Address c/o Glenn's Water Well Service, Inc.
City and State Box 692 Tatum, New Mexico 88267 STATE ENGINEER OFFICE
SANTA FE, NEW MEXICO

Well was drilled under Permit No. C-2165 and is located in the:
1780 FEL 460 FSL
a. _____ ¼ _____ ¼ _____ ¼ of Section 24 Township 26-S. Range 30-E. N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Glenn's Water Well Service, Inc. License No. WD 421
Address Box 692 Tatum, New Mexico 88267
Drilling Began 5/2/88 Completed 5/2/88 Type tools rotary Size of hole 97/8 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 440 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 180 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
318	432	114	brown clay with sand	75
			stringers	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8 X	.156				440		296	440

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received May 5, 1988 Quad _____ FWL _____ FSL _____
File No. C-2165 Use OWD Location No. 26-30-24-434141

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Corky *Shum*
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Released to Imaging: 9/1/2023 9:16:00 AM

STATE CHIEF
ROSWELL, NM



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02165				24	26S	30E	610036	3544121*

Driller License: 421

Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: CORKY GLENN

Drill Start Date: 05/02/1988

Drill Finish Date: 05/02/1988

Plug Date:

Log File Date: 05/05/1988

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 75 GPM

Casing Size: 6.63

Depth Well: 440 feet

Depth Water: 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	318	432	Other/Unknown

Casing Perforations:	Top	Bottom
	296	440

*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.

STATE OF TEXAS WELL REPORT for Tracking #327829

Owner: RKI Exploration	Owner Well #: 7
Address: 3817 NW Expressway Ste 950 Oklahoma City, OK 73112	Grid #: 46-02-1
Well Location: No Data	Latitude: 31° 59' 07" N
	Longitude: 103° 50' 52" W
Well County: Loving	Elevation: No Data
Type of Work: New Well	
Proposed Use: Rig Supply	

Drilling Start Date: **6/30/2012** Drilling End Date: **7/5/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	640

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	0	640	Gravel	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	15 cement

Seal Method: **hand**

Distance to Property Line (ft.): **No Data**

Sealed By: **Unknown**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **dry GPM**

Water Quality:	Strata Depth (ft.)	Water Type
	No Data	dry

Chemical Analysis Made: **Unknown**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Clinton Key**
1012 East Second Street
Roswell, NM 88201

Driller Name: **CKey** License Number: **59076**

Comments: **^ycl**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	top soil
5	15	white caliche
15	50	tan sandstone
50	75	yellow sandstone
75	140	red sand
140	210	red clay
210	230	red sandstone
230	420	red clay
420	560	red sandstone
560	580	red clay
580	630	red sandstone
630	640	red clay


Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6"	New	Certa Lok	0 to 540
6"	New	Certa Lok	540 to 640 .035

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: Ross Draw Unit #55			
							Date: 12/9/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.016165		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-101'7"		Boring Total Depth (ft. BGS): 106'7"				Longitude: -103.86346			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 101'7" - 106'7"		Well Total Depth (ft. BGS): 106'7"			Depth to Water (ft. BTOC): >106' 7"		
DTW Date: 12/16/2020													
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale pink to buff colored poorly graded sand with minor silt				
5													
10													
15													
20	NM	L	D	N	N	NM	SW	NS	Pale tan orange well graded fine sand with minor medium and coarse sand				
25													
30													
35	NM	L	D	N	N	NM	SP	NS	Pale orange brown poorly graded fine sand with minor gravel				
40													
45													
50													
55													
60													
65													
70													
75	NM	L	D	N	N	NM	SP	NS	Grey poorly graded fine sand with minor gravel				
80													
85													
90													
95	NM	L	D	N	N	NM	SP	NS	Darker grey poorly graded fine sand with minor silt and minor medium sand				
100													
106'7"	NM	M	D	N	N	NM	SC	NS	Dark grey fine sand with moderate silt and clay - TD 106'7"				

APPENDIX C

Previously Submitted Closure Report

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

NOV 10 2016

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

RECEIVED

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

Release Notification and Corrective Action

NAB11031949226

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	WPX Energy Inc/RKI	240289	Contact	Karolina Blaney
Address	5315 Buena Vista Dr.		Telephone No.	970 589 0743
Facility Name:	RDU 61		Facility Type:	Well Pad

Surface Owner: Federal	Mineral Owner: Federal	API No. 30- 015-41980
------------------------	------------------------	-----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	27	26S	30E	990	FSL	710	FEL	Eddy

Latitude: 32.030564 N Longitude: -103.8912511 W

NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 15 Bbls	Volume Recovered: 13 Bbls
Source of Release Wellhead	Date and Hour of Occurrence 10/30/16	Date and Hour of Discovery 10/30/16 – 1030 hrs MT
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NMOCD Heather Patterson & Michael Bratcher, BLM Shelly Tucker	
By Whom? Karolina Blaney	Date and Hour: 11/10/16– 14:20 hrs 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.*

This spill was caused by mechanical failure. A stainless steel line between the wellhead and Murphy's switch failed allowing produced water and oil to spill on location. Approximately 10 bbls of water and 3 bbls of oil were recovered with a vac truck. This spill did not leave the well pad location.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was mapped and sampled for BTEX, TPH, and chlorides in accordance with NM OCD Guidelines for Remediation of Leaks, Spills, and Releases. The organic compounds tested below the OCD's cleanup thresholds however chloride concentrations are exceeding the cleanup standard of 1000 mg/kg. The impacted area will be delineated horizontally and vertically utilizing either a hand held auger or a backhoe. Further remediation will be based on the delineation results.

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>Karolina Blaney</i>	OIL CONSERVATION DIVISION	
Printed Name: Karolina Blaney	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Specialist	Approval Date: 11/14/16	Expiration Date: N/A
E-mail Address: Karolina.blaney@wpenergy.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 11/10/2016	Phone: 970-589-0743	

* Attach Additional Sheets If Necessary

2RP-3989

Incident ID	
District RP	2RP-3989
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?	>50 (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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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

Incident ID	2RP-3989
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 Specialist
Signature:  Date: 09/30/2020
email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Incident ID	2RP-3989
District RP	
Facility ID	
Application ID	

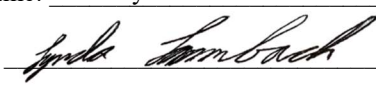
Closure

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 Specialist
Signature:  Date: 09/30/2020
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: _____

Printed Name: _____ Title: _____



September 30, 2020
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Ross Draw Unit #061H Release Closure Request (2RP-3989)

Mr. Bratcher,

This report summarizes the sampling activities at the Ross Draw Unit #061H well pad (Site). The site map is provided as Figure 01. On October 30, 2020, a stainless steel line between the wellhead and Murphy gauge failed causing 15 barrels (bbls), 4.5 bbls oil and 10.5 bbls of produced water (PW) to be released around the wellhead. 3 bbls of oil and 10 bbls of produced water was recovered with a vacuum truck.

Well Location: Ross Draw Unit #061H

API #: 30-015-41980

NMOCD Reference #: 2RP-3989

Site Location Description: Unit Letter P, Section 27, Township 26S, Range 30E

Release Latitude/Longitude: N32.00875, W103.862833

Land Jurisdiction: Federal

Agency Notification: New Mexico Oil Conservation Division (NMOCD), Artesia District Office

Agency Notification Date(s): November 10, 2016

Source of Release: line corrosion

Release Contents: PW & Oil

Volume Released: 15 bbls PW, 4.5 bbls oil

Volume Recovered: 10 bbls PW, 3 bbls oil

Estimated Depth to Groundwater: >50 feet

Closure Criteria Determination

The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs) based on Texas Well Report well #327829. WPX obtained a consultant to confirm depth to groundwater of 58 feet bgs at the well. The well report is provided as Attachment 01. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 10,000 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 2,500 mg/kg Total Petroleum Hydrocarbons (TPH)
- 1,000 mg/kg Diesel range organics (DRO) + Gasoline range organics (GRO)

Activities

On January 21, 2020, a consultant was utilized to complete delineation sampling for the release. The impacted area is provided in Figure 02. Discrete delineation samples TT1 through TT4 were collected to delineate the release. The log documenting field activities is documented in Attachment 02. The samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, with appropriate identification, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to the chain of custody of Envirotech laboratories. Analysis was completed at Envirotech Laboratories in Albuquerque, 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 for the excavation of impacted soils confirmed that the samples were compliant with the closure criteria for this Site. All samples are below the allowable standards for Chloride, BTEX, and TPH. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 03. Sample results depict vertical delineation achieved over 75 percent of the initial release area.

- Chloride samples ranged from 271 to 3,590 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH analysis was below the Laboratory detectable limit

Conclusions

The laboratory analytical results to address the impacted soils from 2RP-3989 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. 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@wpxenergy.com.

Best regards,



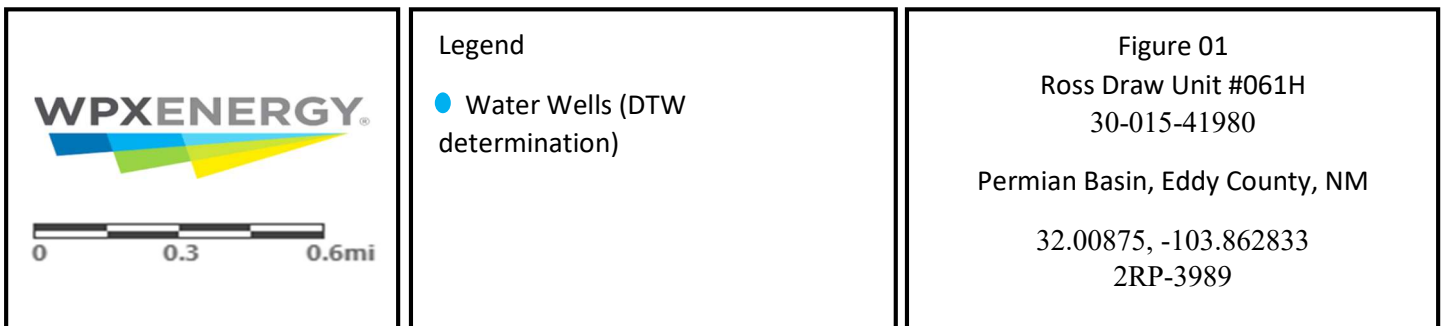
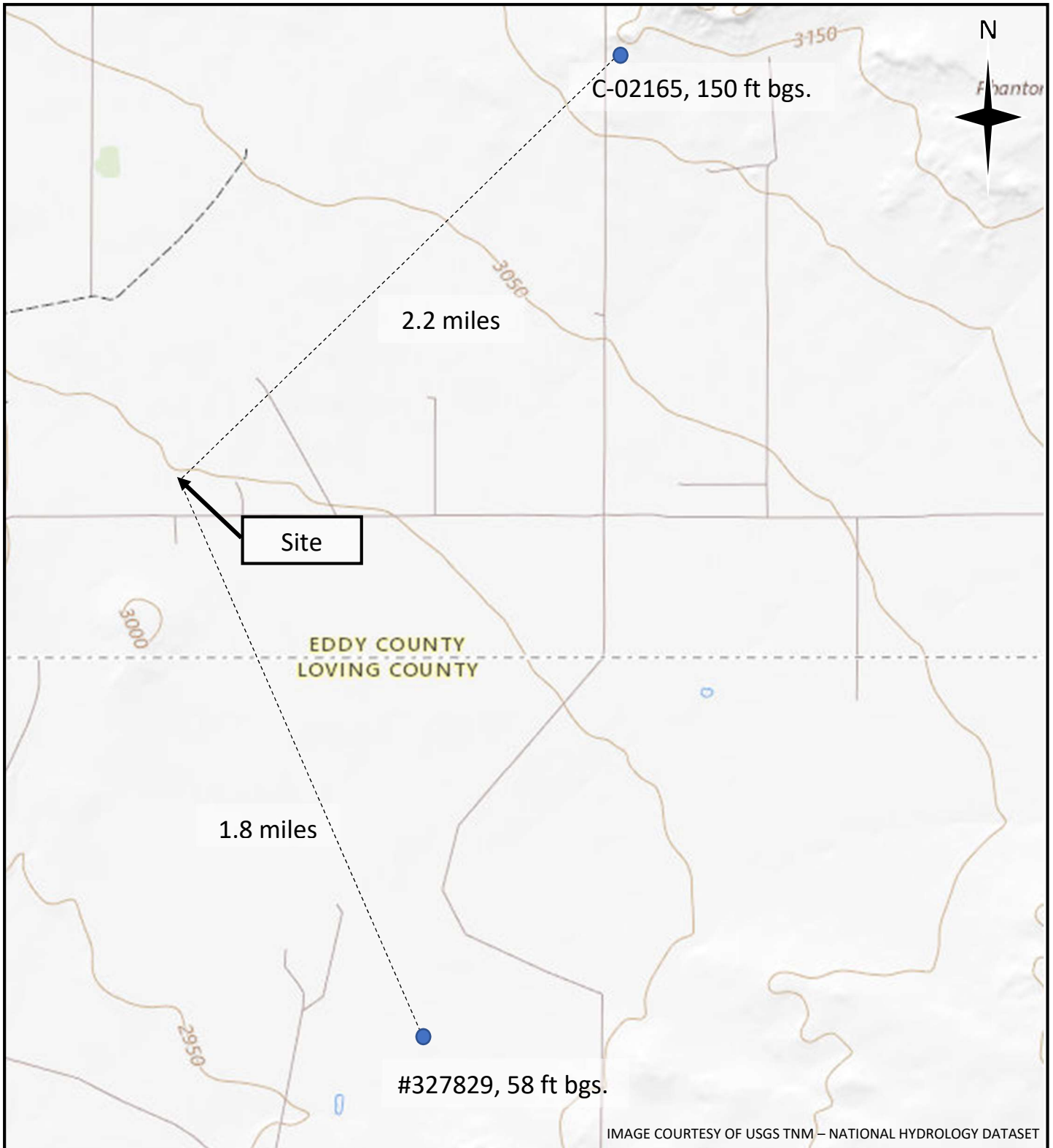
Lynda Laumbach
Environmental Specialist

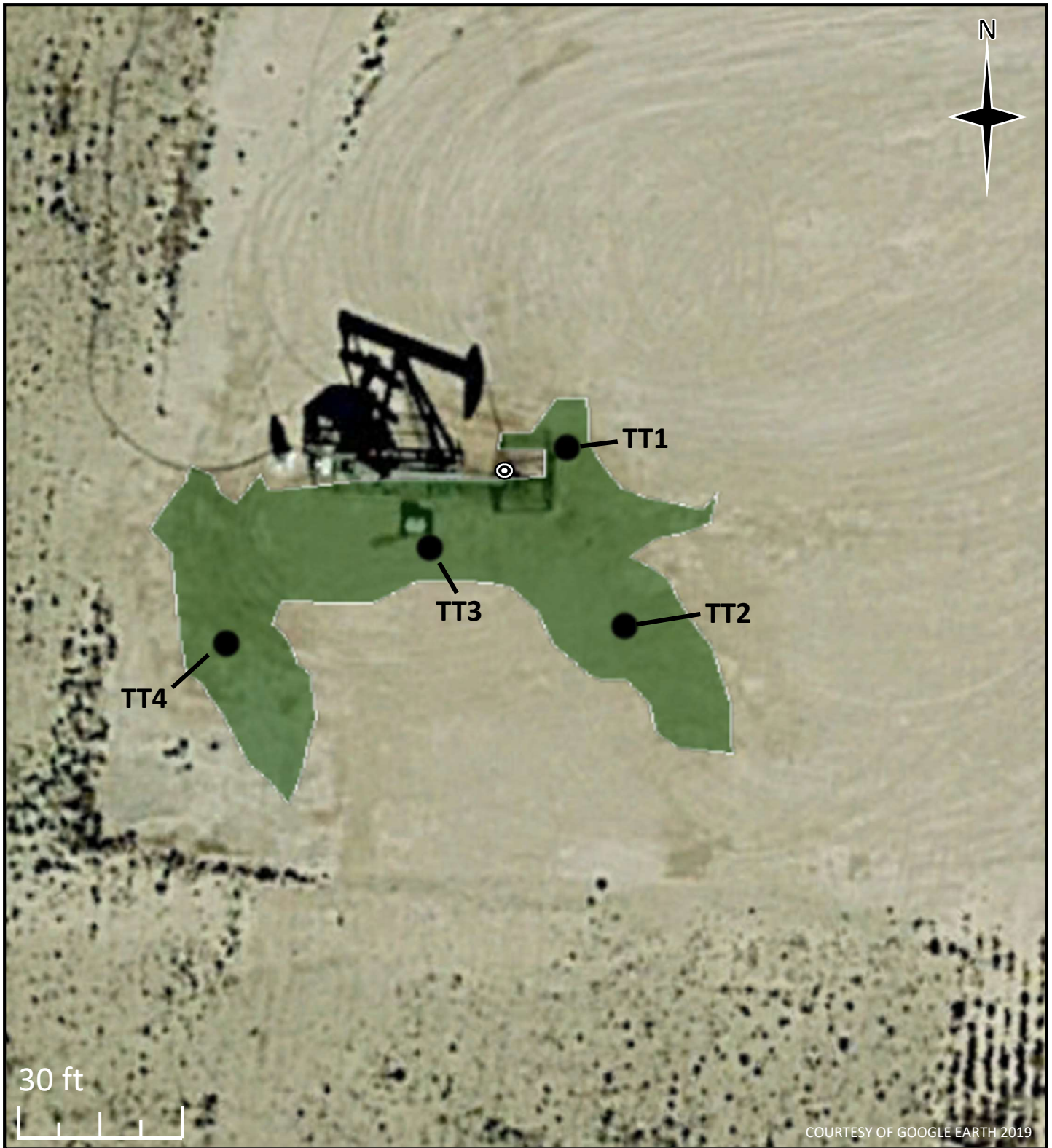
CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 01 Site Map
Figure 02 Field Activities
Table 01 Sample Results
Attachment 01 Water Well Texas Well Report #327829
Attachment 02 Field Activities Log
Attachment 03 Laboratory Analytical Results

Figures





COURTESY OF GOOGLE EARTH 2019



Legend

⊙ Point of Release

■ Notable Extent (January 31, 2020)

Figure 02
Ross Draw Unit #061H
30-015-41980
Permian Basin, Eddy County, NM
32.00875, -103.862833
2RP-3989

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Ross Draw Unit #061H
NMOCD REFERENCE NUMBER: 2RP-3989



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)	Chloride (mg/kg)
TT1	2	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	869.0
TT1	4	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	284.0
TT2	2	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	3590.0
TT2	4	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	271.0
TT3	2	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	760.0
TT3	8	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	561.0
TT4	2	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	2520.0
TT4	10	1/21/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	681.0
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000

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	

Attachment 01

STATE OF TEXAS WELL REPORT for Tracking #327829

Owner: RKI Exploration	Owner Well #: 7
Address: 3817 NW Expressway Ste 950 Oklahoma City, OK 73112	Grid #: 46-02-1
Well Location: No Data	Latitude: 31° 59' 07" N
	Longitude: 103° 50' 52" W
Well County: Loving	Elevation: No Data
Type of Work: New Well	
Proposed Use: Rig Supply	

Drilling Start Date: **6/30/2012** Drilling End Date: **7/5/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	640

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	0	640	Gravel	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	15 cement

Seal Method: **hand**

Distance to Property Line (ft.): **No Data**

Sealed By: **Unknown**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **dry GPM**

Water Quality:	Strata Depth (ft.)	Water Type
	No Data	dry

Chemical Analysis Made: **Unknown**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Clinton Key**
1012 East Second Street
Roswell, NM 88201

Driller Name: **CKey** License Number: **59076**

Comments: **^ycl**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	top soil
5	15	white caliche
15	50	tan sandstone
50	75	yellow sandstone
75	140	red sand
140	210	red clay
210	230	red sandstone
230	420	red clay
420	560	red sandstone
560	580	red clay
580	630	red sandstone
630	640	red clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6"	New	Certa Lok	0 to 540
6"	New	Certa Lok	540 to 640 .035

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

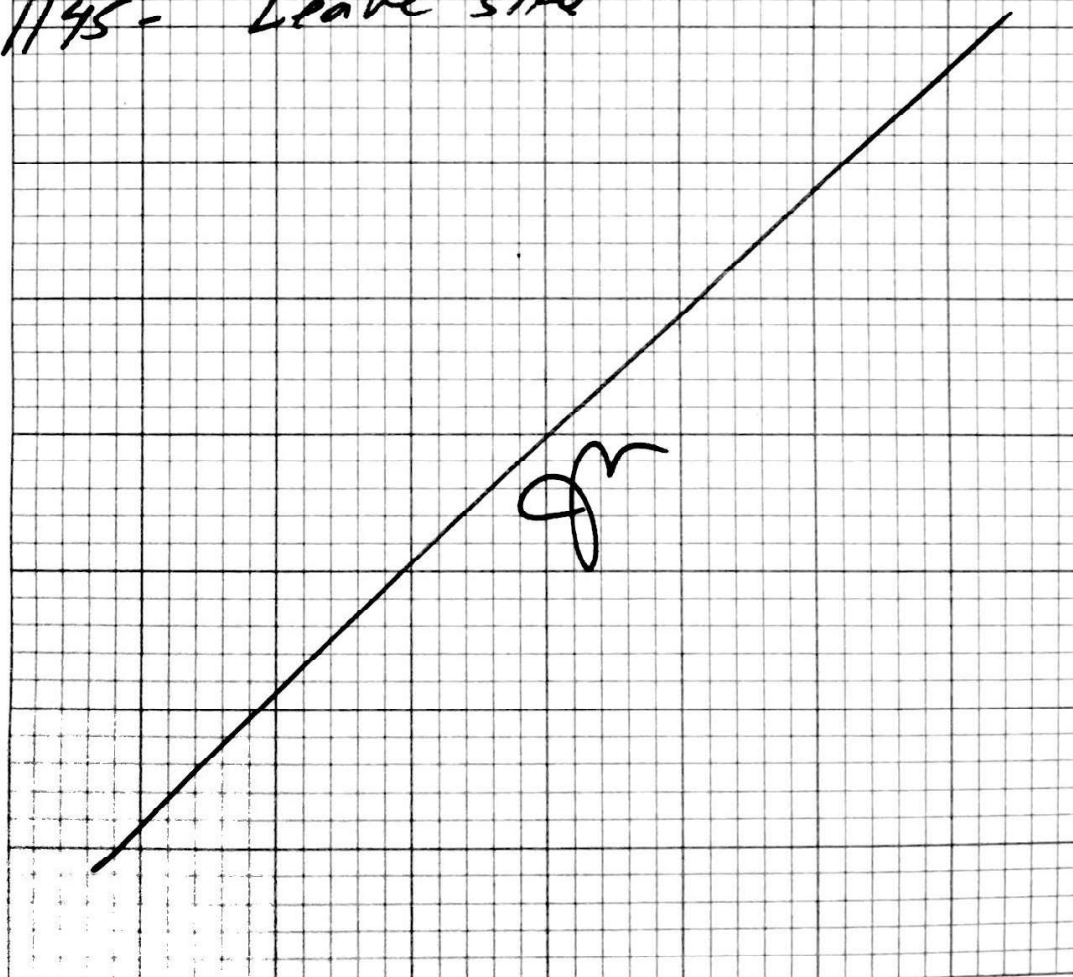
Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

Attachment 02

Location RDU 61 (2RP-3989) Date 1.15.20Project / Client WPX EnergyScale 32.00881, -103.86271

- 1052 - Arrive onsite / prepare JSA
- 1100 - Tailgate safety meeting
- 1105 - Take photos of release
- 1110 - Stake white flags for one call
- 1115 - Begin release track
- 1145 - Leave site

*Rite in the Rain*

18

Location RDU 61Date 1-21-20Project / Client 2RP-3989WPX

9:30am - Onsite w/ Kemp, prep TSA, conduct
tailgate safety meeting, Calibrate PID,
tube equipment prep

9:50am - Begin delineation activities utilizing
backhoe.

12:25pm - Finish delineating / screening, begin
loading equipment, prepare for move
to next site

~1:15pm - offsite





Sample Log

Date: Jan 21, 2020

Project: RDU 61 (2RP-3989)

Project Number: 11779

Latitude: 32.00881

Longitude: -103.86271

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

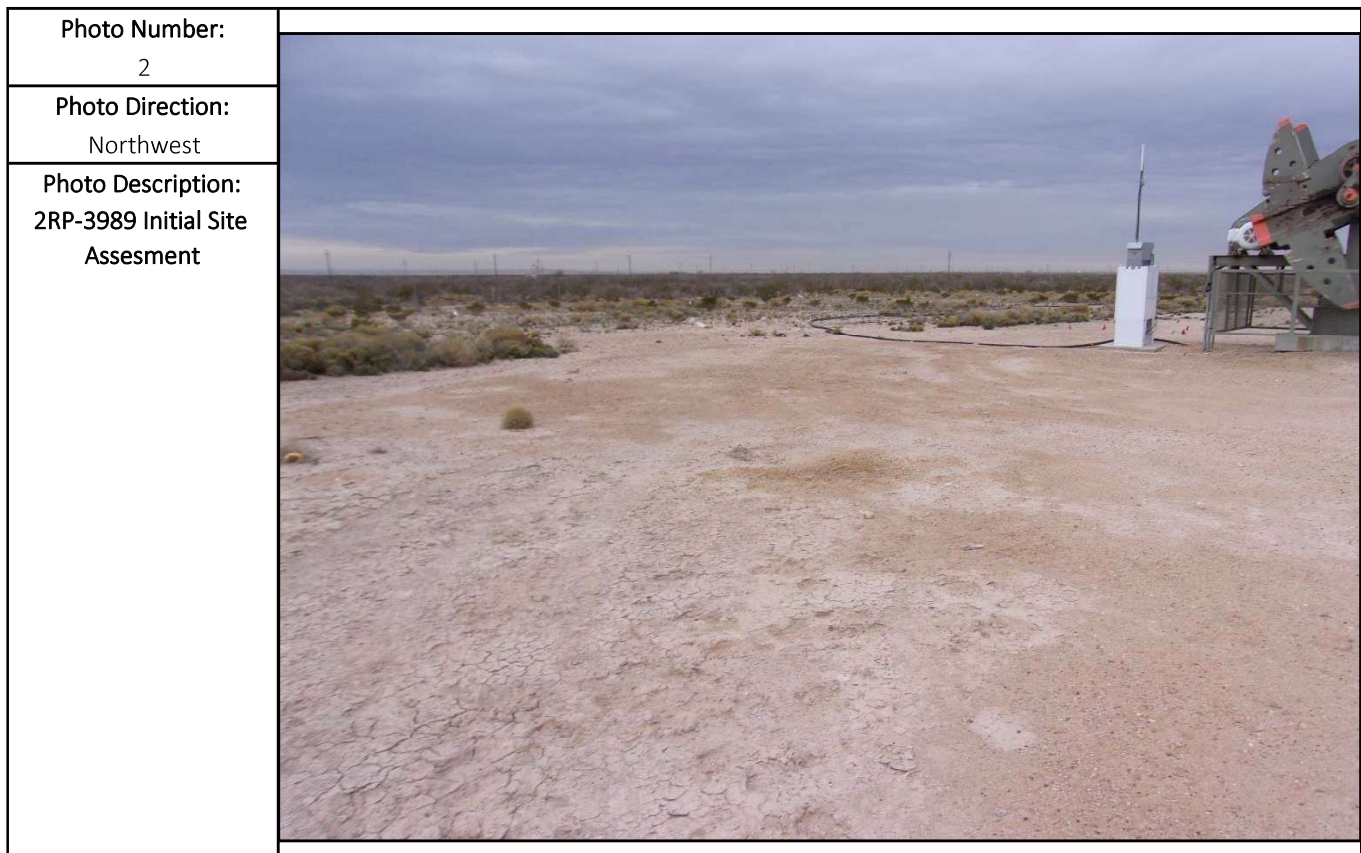
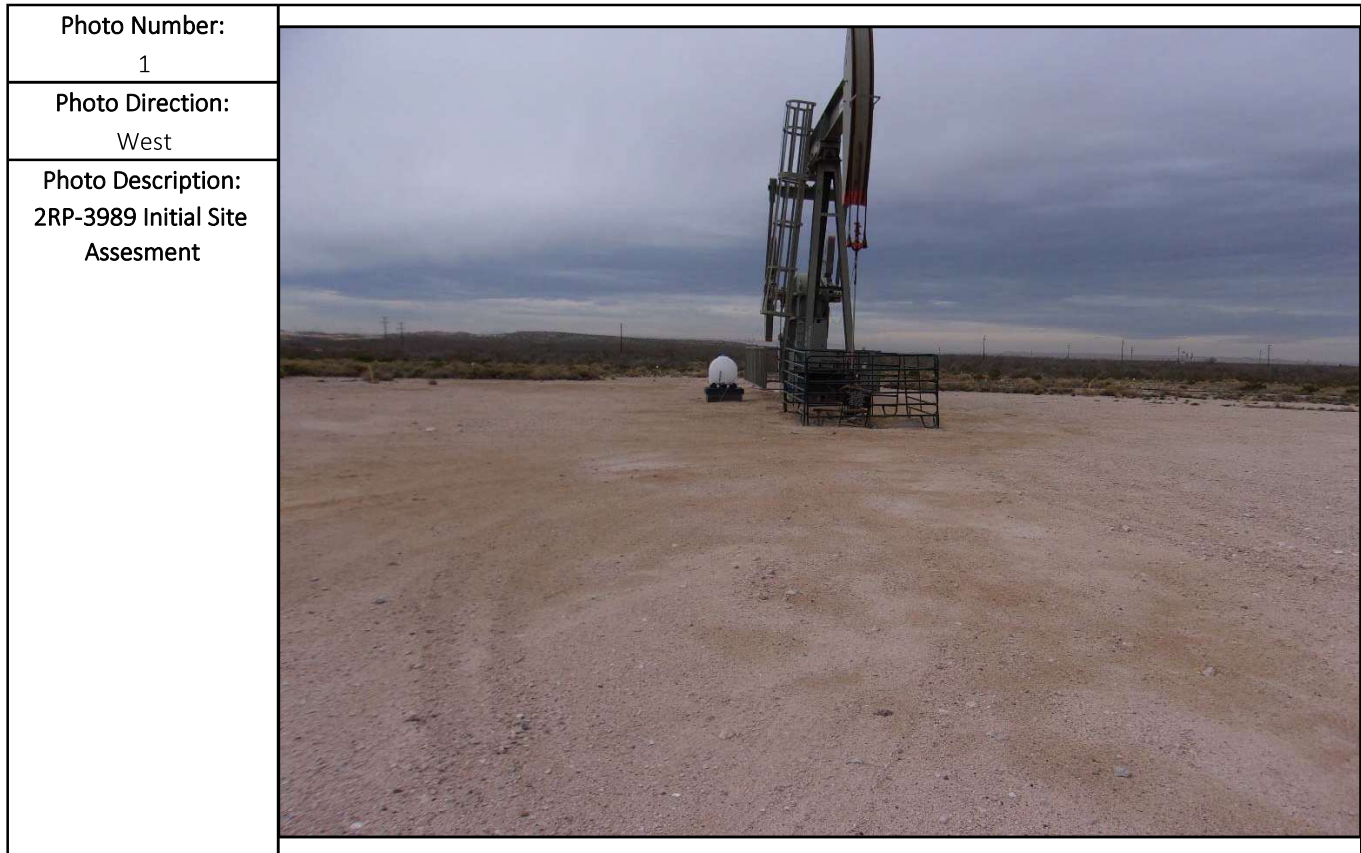
GPS Sample Points, Center of Comp Areas

Site Name: RDU 61 (2RP-3989)

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 01/21/2020

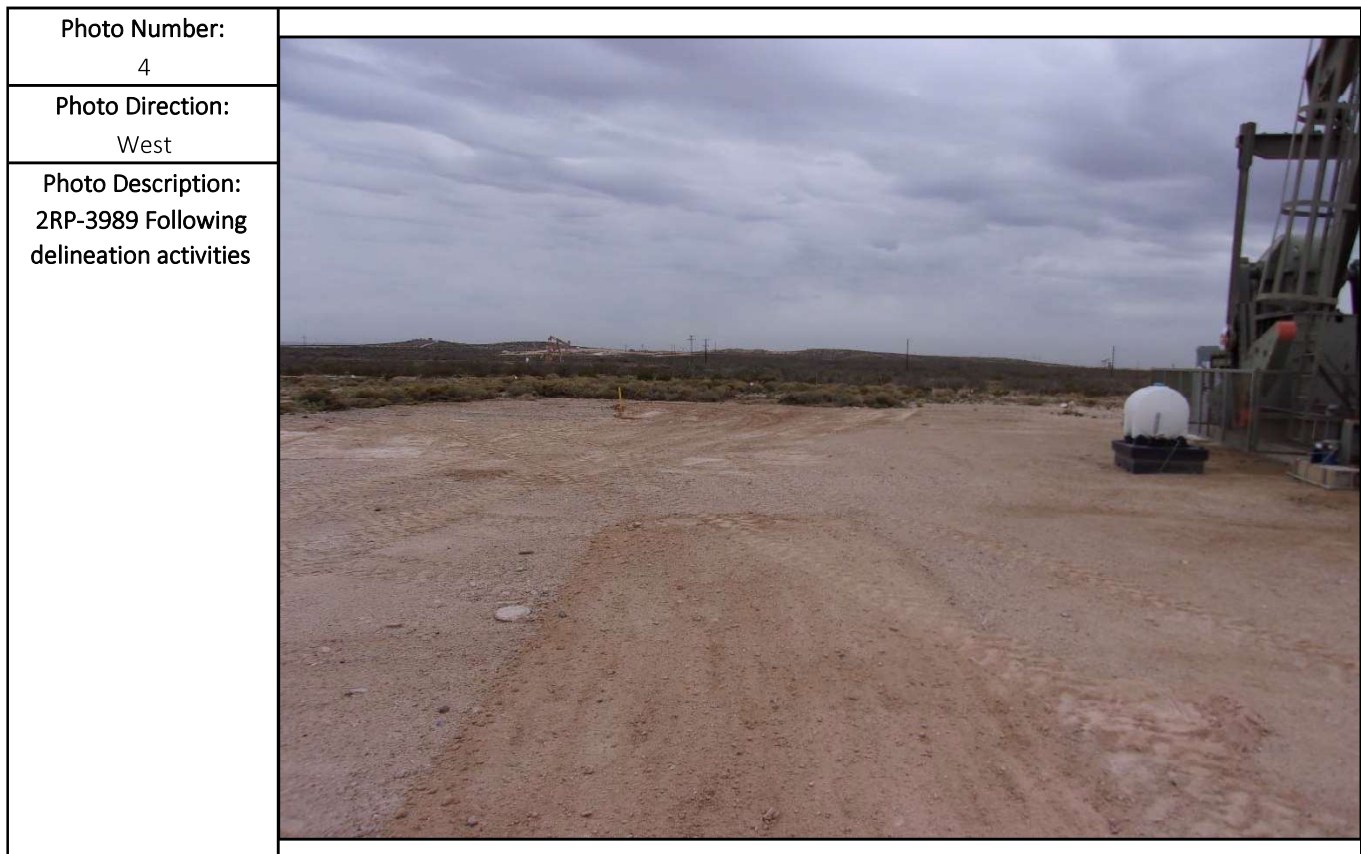
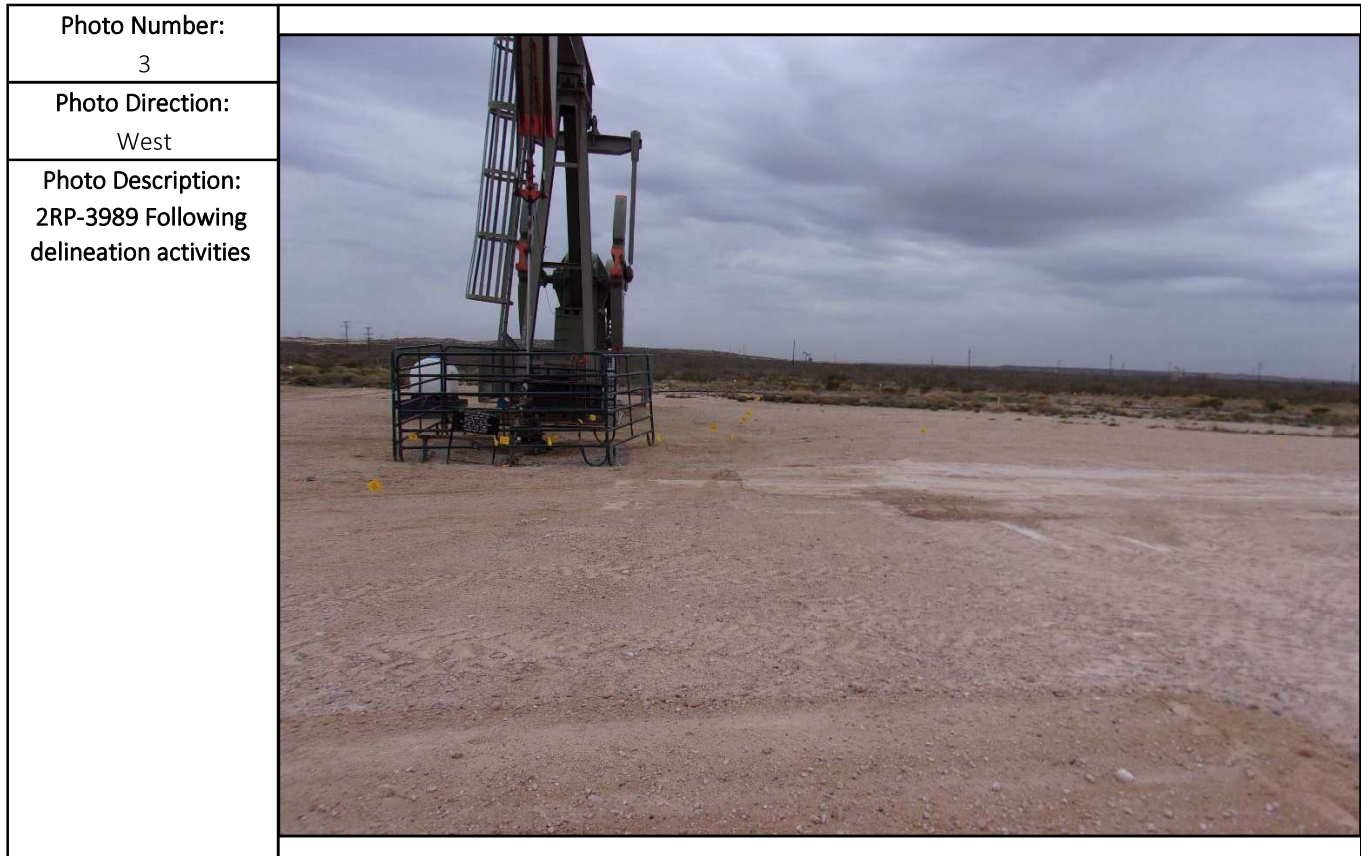


Site Name: RDU 61 (2RP-3989)

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 01/21/2020



Site Name: RDU 61 (2RP-3989)

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 01/21/2020

Photo Number: 5	
Photo Direction: Northeast	
Photo Description: 2RP-3989 Following delineation activities	

Attachment 03



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020

Job Number: 04108-0639

Work Order: P001075

Project Name/Location: RDU 61 (2RP-3989)

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

Date: 1/30/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
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WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDU 61 (2RP-3989)
Project Number: 04108-0639
Project Manager: Lynda Laumbach

Reported:
01/30/20 14:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT1 @ 2'	P001075-01A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 4'	P001075-02A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 2'	P001075-03A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 6'	P001075-04A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 2'	P001075-05A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 8'	P001075-06A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT4 @ 2'	P001075-07A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.
TT4 @ 10'	P001075-08A	Soil	01/21/20	01/24/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT1 @ 2'
P001075-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2005015	01/28/20	01/29/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005011	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005011	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		83.4 %		50-200	2005011	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %		50-150	2005015	01/28/20	01/29/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	869	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT1 @ 4'
P001075-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2005015	01/28/20	01/29/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005011	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005011	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		79.7 %		50-200	2005011	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %		50-150	2005015	01/28/20	01/29/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	284	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT2 @ 2'
P001075-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2005015	01/28/20	01/29/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.3 %		50-200	2005012	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %		50-150	2005015	01/28/20	01/29/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3590	40.0	mg/kg	2	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT2 @ 6'
P001075-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>108 %</i>		<i>50-150</i>	<i>2005015</i>	<i>01/28/20</i>	<i>01/29/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>94.1 %</i>		<i>50-200</i>	<i>2005012</i>	<i>01/27/20</i>	<i>01/28/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>94.1 %</i>		<i>50-150</i>	<i>2005015</i>	<i>01/28/20</i>	<i>01/29/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	271	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT3 @ 2'
P001075-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2005015	01/28/20	01/29/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.9 %		50-200	2005012	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %		50-150	2005015	01/28/20	01/29/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	760	100	mg/kg	5	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT3 @ 8'
P001075-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>106 %</i>		<i>50-150</i>	<i>2005015</i>	<i>01/28/20</i>	<i>01/30/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>91.9 %</i>		<i>50-200</i>	<i>2005012</i>	<i>01/27/20</i>	<i>01/28/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>94.1 %</i>		<i>50-150</i>	<i>2005015</i>	<i>01/28/20</i>	<i>01/30/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	561	100	mg/kg	5	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT4 @ 2'
P001075-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.0 %		50-200	2005012	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	2520	40.0	mg/kg	2	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

TT4 @ 10'
P001075-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		89.5 %		50-200	2005012	01/27/20	01/28/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	681	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2005015 - Purge and Trap EPA 5030A

Blank (2005015-BLK1)

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			

LCS (2005015-BS1)

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Benzene	5.34	0.0250	mg/kg	5.00		107	70-130			
Toluene	5.34	0.0250	"	5.00		107	70-130			
Ethylbenzene	5.31	0.0250	"	5.00		106	70-130			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-130			
o-Xylene	5.34	0.0250	"	5.00		107	70-130			
Total Xylenes	15.9	0.0250	"	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.56		"	8.00		107	50-150			

Matrix Spike (2005015-MS1)

Source: P001075-01

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Benzene	5.05	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.01	0.0250	"	5.00	ND	100	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	ND	100	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.66		"	8.00		108	50-150			

Matrix Spike Dup (2005015-MSD1)

Source: P001075-01

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Benzene	5.17	0.0250	mg/kg	5.00	ND	103	54.3-133	2.31	20	
Toluene	5.15	0.0250	"	5.00	ND	103	61.4-130	1.99	20	
Ethylbenzene	5.12	0.0250	"	5.00	ND	102	61.4-133	2.14	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	2.07	20	
o-Xylene	5.15	0.0250	"	5.00	ND	103	63.3-131	1.98	20	
Total Xylenes	15.4	0.0250	"	15.0	ND	102	63.3-131	2.04	20	
Surrogate: 4-Bromochlorobenzene-PID	8.63		"	8.00		108	50-150			

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2005011 - DRO Extraction EPA 3570

Blank (2005011-BLK1)

Prepared: 01/27/20 1 Analyzed: 01/27/20 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

LCS (2005011-BS1)

Prepared: 01/27/20 1 Analyzed: 01/27/20 2

Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.7	38-132			
Surrogate: n-Nonane	48.2		"	50.0		96.5	50-200			

Matrix Spike (2005011-MS1)

Source: P001075-01

Prepared: 01/27/20 1 Analyzed: 01/28/20 1

Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.3	38-132			
Surrogate: n-Nonane	47.7		"	50.0		95.4	50-200			

Matrix Spike Dup (2005011-MSD1)

Source: P001075-01

Prepared: 01/27/20 1 Analyzed: 01/28/20 1

Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.1	38-132	1.23	20	
Surrogate: n-Nonane	46.1		"	50.0		92.3	50-200			

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2005012 - DRO Extraction EPA 3570

Blank (2005012-BLK1)

Prepared: 01/27/20 1 Analyzed: 01/29/20 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			

LCS (2005012-BS1)

Prepared: 01/27/20 1 Analyzed: 01/29/20 0

Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500		88.7	38-132			
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			

Matrix Spike (2005012-MS1)

Source: P001075-03

Prepared: 01/27/20 1 Analyzed: 01/28/20 1

Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.1	38-132			
Surrogate: n-Nonane	48.9		"	50.0		97.7	50-200			

Matrix Spike Dup (2005012-MSD1)

Source: P001075-03

Prepared: 01/27/20 1 Analyzed: 01/28/20 1

Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.8	38-132	3.50	20	
Surrogate: n-Nonane	47.8		"	50.0		95.5	50-200			

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2005015 - Purge and Trap EPA 5030A

Blank (2005015-BLK1)

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		"	8.00		95.0	50-150			

LCS (2005015-BS2)

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Gasoline Range Organics (C6-C10)	44.5	20.0	mg/kg	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.7	50-150			

Matrix Spike (2005015-MS2)

Source: P001075-01

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		"	8.00		96.8	50-150			

Matrix Spike Dup (2005015-MSD2)

Source: P001075-01

Prepared: 01/28/20 1 Analyzed: 01/29/20 1

Gasoline Range Organics (C6-C10)	44.3	20.0	mg/kg	50.0	ND	88.6	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		"	8.00		95.0	50-150			

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 14:29

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2005017 - Anion Extraction EPA 300.0/9056A

Blank (2005017-BLK1)

Prepared & Analyzed: 01/28/20 1

Chloride	ND	20.0	mg/kg
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LCS (2005017-BS1)

Prepared & Analyzed: 01/28/20 1

Chloride	247	20.0	mg/kg	250	98.8	90-110
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Matrix Spike (2005017-MS1)

Source: P001075-01

Prepared & Analyzed: 01/28/20 1

Chloride	1100	20.0	mg/kg	250	869	90.7	80-120
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Matrix Spike Dup (2005017-MSD1)

Source: P001075-01

Prepared & Analyzed: 01/28/20 1

Chloride	1150	20.0	mg/kg	250	869	112	80-120	4.77	20
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 61 (2RP-3989)	Reported: 01/30/20 14:29
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information				Chain of Custody				Report Attention				Lab Use Only				TAT				EPA Program			
Client: <u>WPX</u>				Report due by: <u>Stanley TAT</u>				Lab WO#: <u>P001075</u>				Job Number: <u>04103-0637</u>				1D 3D				CWA SDWA			
Project Manager: _____				Attention: _____				Analysis and Method				RCRA				CWA							
Address: _____				City, State, Zip				DRO/DRO by 8015				VOC by 8260				Metals 6010				Chloride 300.0			
City, State, Zip				Phone: _____				GRO/DRO by 8015				BTEX by 8021				State				NM CO UT AZ			
Email: <u>Lynda@wpx</u>				Email: <u>Joseph@etechnv.com</u>				Lab Number				Remarks											
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																		
10:10 am	1-21-20	S	1	TT1 @ 2'	1																		
10:20 am			1	TT1 @ 4'	2																		
10:30 am			1	TT2 @ 2'	3																		
10:45 am			1	TT2 @ 6'	4																		
11:05 am			1	TT3 @ 2'	5																		
11:25 am			1	TT3 @ 8'	6																		
11:35 am			1	TT4 @ 2'	7																		
12:15 pm			1	TT4 @ 10'	8																		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	1-23-20	4:35 pm	<u>[Signature]</u>	1-23-2020	1635
<u>[Signature]</u>	1-24-2020	1915	<u>Raina Lopez</u>	1/24/20	19:30

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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laboratory@envirotech-inc.com

Project Information			Chain of Custody			Report Attention			Lab Use Only			TAT			EPA Program		
Client: WPX			Report due by: Standard TAT			Lab WO# P001075			Job Number 041088-00371			1D 3D			CWA SDWA		
Project Manager: Lynda Lamm Bach			Attention:			Analysis and Method			State			NM CO UT			Remarks		
Address:			City, State, Zip			Phone:			Email: joseph@etechnv.com			Lab Number					
City, State, Zip			Phone:			Email:			Lab Number								
Time Sampled			Date Sampled			Matrix			No Containers			Sample ID					
10:10am	1:21:20	S	1	TT1 @ 2'	1	1	1	1	1	1	1	1	1	1	1	1	1
10:20am	1:21:20	S	1	TT1 @ 4'	1	1	1	1	1	1	1	1	1	1	1	1	1
10:30am	1:22:20	S	1	TT2 @ 2'	1	1	1	1	1	1	1	1	1	1	1	1	1
10:45am	1:22:20	S	1	TT2 @ 6'	1	1	1	1	1	1	1	1	1	1	1	1	1
11:05am	1:23:20	S	1	TT3 @ 2'	1	1	1	1	1	1	1	1	1	1	1	1	1
11:25am	1:23:20	S	1	TT3 @ 8'	1	1	1	1	1	1	1	1	1	1	1	1	1
11:35am	1:24:20	S	1	TT4 @ 2'	1	1	1	1	1	1	1	1	1	1	1	1	1
12:15pm	1:24:20	S	1	TT4 @ 10'	1	1	1	1	1	1	1	1	1	1	1	1	1

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature) Date 1-23-2020 Time 4:35 pm
 Received by: (Signature) Date 1-23-2020 Time 1635
 Relinquished by: (Signature) Date 1-24-2020 Time 1915
 Received by: (Signature) Date 1-24-2020 Time 19:30
 Raina Lopez

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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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 255192

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 255192
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Closure approved.	9/1/2023
amaxwell	Release area is subject to 19.15.29.13 NMAC, RESTORATION, RECLAMATION AND RE-VEGETATION, upon removal of equipment or plug and abandonment activities, whichever comes first.	9/1/2023