

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



#8404

FOR OGCC USE ONLY

RECEIVED
5/6/2014

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

Spill Complaint
Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure X Site/Facility Closure Other (describe):

OGCC Operator Number: 96705

Name of Operator: WPX Energy Production, LLC

Address: POB 640/721 S. Main Ave.

City: Aztec State: NM Zip: 87410

Contact Name and Telephone:

Vanessa Fields Environmental Specialist

No: 505-333-1880

Fax: 505-333-1805

API Number: 05-067-08314

County: La Plata

Facility Name: Pit

Facility Number:

Well Name: Ignacio 33-7

Well Number: 17A

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NESW 21 33N 7W N PM

Latitude: 37.09294 Longitude: -107.61805

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): No release occurred

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y X N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Native Range

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Arboles Clay

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None

Description of Impact (if previously provided, refers to that form or document):

Impacted Media (check):

Extent of Impact:

How Determined:

Soils

None

910.0 Soil Sample Criteria

Vegetation

N/A

N/A

Groundwater

N/A

N/A

Surface Water

N/A

N/A

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): No impact to the environment when the fiberglass tank was removed from earth, the fiberglass tank was banded 40 mil plastic liner. The fiberglass tank is to be replaced with a 40 mil plastic liner banded double-wall and double bottom steel API tank.

Describe how source is to be removed: The existing fiberglass tank was removed by excavation of surrounding soils, removal of tank and liner, offsite disposal of tank and liner were disposed of a permitted landfill. A collection of a five point soil samples were taken from the excavation bottom and sidewalls. Soil was submitted to Envirotech Lab for sampling of BTEX, TPH, EC, SAR and Colorado Metals.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, in situ bioremediation, burning of oily vegetation, etc.: No soil impact found upon soil sample results.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
There were no surface disturbances determined from soil sample results 910-1.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

No seeding or surface restoration planned until site abandonment.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y X N If yes, describe:

Final disposition of E&P waste (land treated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
Fiberglass pit and liner were disposed of at San Juan County Regional Landfill Permit # SWM-052426 #78 CR 3140 Aztec, NM 87410

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____	Date Site Investigation Completed: _____	Date Remediation Plan Submitted: _____
Remediation Start Date: <u>5/1/2014</u>	Anticipated Completion Date: <u>5/06/2014</u>	Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Vanessa Fields

Signed: _____

Title: Environmental Specialist

Date: 5/6/2014

OGCC Approved: _____

Title: Environmental Protection Specialist Date: 5/9/14



37.09294 -107.61805

Colorado Division of Water Resources

*Focused on Colorado's People, Water, and Stewardship***Colorado's Well Permit Search**

Available Search Options:

Permit Number	Receipt	Owner	Location (PLSS)	Location (UTM)	Address	Parcel ID	Subdivision	Actions
			Q40 NE	Q160 SW	Section 21	Township 33 N	Range 07 W	PM Sixth

[-] Additional Filters

☒ Limit to Geographical Area

County
ADAMS
ALAMOSA
ARAPAHOE
ARCHULETA
BACA
BENT
BOULDER
BROOMFIELD

☐ Limit to Use

ALL BENEFICIAL USES
AUGMENTATION
COMMERCIAL
DOMESTIC
EVAPORATIVE
FIRE
FISHERY
GEO THERMAL
HOUSEHOLD USE ONLY

☐ Limit to Status

Application Denied
Application Received
Application Unacceptable
Application Withdrawn
Permit Canceled
Permit Expired
Permit Extended
Permit Issued; Completion Status Unknown
Well Abandoned

Search

Help

Search Hints

0 Results

Export Results

Last Refresh: 5/6/2014 12:02:22 AM

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Analytical Report

Report Summary

Client: WPX Energy, Inc.

Chain Of Custody Number: 16719

Samples Received: 4/24/2014 2:50:00PM

Job Number: 04108-0006

Work Order: P404085

Project Name/Location: Ignacio 33-7 #017A

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 5/2/14

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

WPX Energy, Inc.
 PO Box 21218
 Tulsa OK, 74121-1358

Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

Reported:
 02-May-14 15:03

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Control 37.09249 107.61781	P404085-01A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.
37.09370 107.61778	P404085-02A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.
37.09270 107.61780	P404085-03A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.
37.09271 107.61775	P404085-04A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.
37.09273 107.61784	P404085-05A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.
37.09274 107.61779	P404085-06A	Soil	04/23/14	04/24/14	Glass Jar, 4 oz.

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

Control 37.09249 107.61781
P404085-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		103 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	30.7	29.9	mg/kg	1	1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010									
Arsenic	ND	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Barium	1130	4.39	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	2.17	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	17.5	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Copper	14.7	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Lead	17.4	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	10.5	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	6.18	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	67.9	0.88	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	

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laboratory@envirotech-inc.com

WPX Energy, Inc.
 PO Box 21218
 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

Control 37.09249 107.61781
P404085-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	35.9	19.9	mg/kg	1		1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis										
pH @20.1°C	8.11		pH Units	1		1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	70.0		umhos/cm	1		1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.319		N/A	1		1418043	05/01/14	05/02/14	[CALC]	
Chloride	ND	9.90	mg/kg	1		1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	5.12	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	1.30	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	3.12	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1418028	04/30/14	05/01/14	EPA 6010C	

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 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09370 107.61778
P404085-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %		80-120		1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		102 %		80-120		1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010										
Arsenic	ND	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Barium	306	4.81	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	1.76	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	15.8	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Copper	10.4	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Lead	10.3	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	8.70	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	5.19	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	47.2	0.96	mg/kg	1		1418022	04/30/14	05/01/14	EPA 6010C	

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 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09370 107.61778
P404085-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg	1		1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis										
pH @19.9°C	8.70		pH Units	1		1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	84.1		umhos/cm	1		1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.596		N/A	1		1418043	05/01/14	05/02/14	[CALC]	
Chloride	27.8	9.85	mg/kg	1		1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	12.1	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	6.42	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	10.3	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.49	mg/L	1		1418028	04/30/14	05/01/14	EPA 6010C	

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WPX Energy, Inc.
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 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

 37.09270 107.61780
 P404085-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.1 %		80-120		1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		99.9 %		80-120		1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010										
Arsenic	ND	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Barium	317	4.70	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	2.17	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	16.8	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Copper	12.6	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Lead	9.43	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	10.2	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	5.91	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	55.3	0.94	mg/kg	0.9		1418022	04/30/14	05/01/14	EPA 6010C	

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

 37.09270 107.61780
 P404085-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	20.0	mg/kg	1	1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis									
pH @20°C	8.63		pH Units	1	1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	74.5		umhos/cm	1	1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.778		N/A	1	1418043	05/01/14	05/02/14	[CALC]	
Chloride	18.7	9.84	mg/kg	1	1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	6.44	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	5.46	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	11.1	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010									
Boron	ND	0.49	mg/L	1	1418028	04/30/14	05/01/14	EPA 6010C	

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09271 107.61775

P404085-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		90.3 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		89.6 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010									
Arsenic	ND	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Barium	289	4.77	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	1.96	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	13.9	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Copper	12.4	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Lead	10.2	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	9.71	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	4.76	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	49.5	0.95	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	

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WPX Energy, Inc.
 PO Box 21218
 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09271 107.61775
P404085-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	20.0	20.0	mg/kg	1	1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis									
pH @20°C	8.83		pH Units	1	1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	112		umhos/cm	1	1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.641		N/A	1	1418043	05/01/14	05/02/14	[CALC]	
Chloride	33.5	9.89	mg/kg	1	1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	10.3	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	4.08	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	9.60	0.01	mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010									
Boron	ND	0.49	mg/L	1	1418028	04/30/14	05/01/14	EPA 6010C	

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09273 107.61784
P404085-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		93.5 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.3 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010									
Arsenic	ND	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Barium	325	4.90	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	2.16	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	17.4	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Copper	13.1	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Lead	8.90	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	10.1	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	5.69	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	58.0	0.98	mg/kg	1	1418022	04/30/14	05/01/14	EPA 6010C	

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09273 107.61784
P404085-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	20.0	20.0		mg/kg	1	1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis										
pH @20.7°C	7.35			pH Units	1	1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	186			umhos/cm	1	1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.697			N/A	1	1418043	05/01/14	05/02/14	[CALC]	
Chloride	19.9	9.84		mg/kg	1	1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	15.4	0.01		mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	4.54	0.01		mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	12.1	0.01		mg/L	1	1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50		mg/L	1	1418028	04/30/14	05/01/14	EPA 6010C	

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

37.09274 107.61779
P404085-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: Bromochlorobenzene		92.9 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		92.0 %		80-120	1418009	04/29/14	05/01/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/29/14	05/01/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/30/14	EPA 8015D	
Total Metals by 6010									
Arsenic	ND	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Barium	105	4.64	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Cadmium	0.96	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Chromium	8.44	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Copper	5.17	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Lead	4.69	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Mercury	ND	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Nickel	4.81	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Selenium	2.19	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Silver	ND	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	
Zinc	20.6	0.93	mg/kg	0.9	1418022	04/30/14	05/01/14	EPA 6010C	

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WPX Energy, Inc.
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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

 37.09274 107.61779
 P404085-06 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	20.0	20.0	mg/kg	1		1418021	04/30/14	04/30/14	EPA 418.1	
Cation/Anion Analysis										
pH @20.1°C	8.05		pH Units	1		1418019	04/30/14	04/30/14	EPA 9045D	
Electrical Conductivity	82.4		umhos/cm	1		1418019	04/30/14	04/30/14	EPA 120.1	
Sodium Absorption Ratio	0.436		N/A	1		1418043	05/01/14	05/02/14	[CALC]	
Chloride	ND	9.96	mg/kg	1		1418013	04/29/14	04/29/14	EPA 300.0	
Calcium	7.34	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Magnesium	3.73	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Sodium	5.82	0.01	mg/L	1		1418033	05/01/14	05/01/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1418028	04/30/14	05/01/14	EPA 6010C	

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Tulsa OK, 74121-1358

Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

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 1418009 - Purge and Trap EPA 5030A

Blank (1418009-BLK1)

Prepared & Analyzed: 29-Apr-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	48.9		ug/L	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			

Duplicate (1418009-DUP1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	49.2		ug/L	50.0		98.4	80-120			
Surrogate: Bromochlorobenzene	51.5		"	50.0		103	80-120			

Matrix Spike (1418009-MS1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Benzene	48.4		ug/L	50.0	ND	96.8	39-150			
Toluene	48.8		"	50.0	ND	97.6	46-148			
Ethylbenzene	49.1		"	50.0	ND	98.2	32-160			
p,m-Xylene	98.5		"	100	ND	98.5	46-148			
o-Xylene	49.1		"	50.0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		"	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		"	50.0		98.1	80-120			

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WPX Energy, Inc.
 PO Box 21218
 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1418009 - Purge and Trap EPA 5030A
Blank (1418009-BLK1)

Prepared & Analyzed: 29-Apr-14

Gasoline Range Organics (C6-C10)

ND 4.99 mg/kg

Duplicate (1418009-DUP1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Gasoline Range Organics (C6-C10)

ND 5.00 mg/kg

ND

30

Matrix Spike (1418009-MS1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Gasoline Range Organics (C6-C10)

0.47 mg/L 0.450 ND 105 75-125

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 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1418010 - DRO Extraction EPA 3550C
Blank (1418010-BLK1)

Prepared & Analyzed: 29-Apr-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

Duplicate (1418010-DUP1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg ND 30

Matrix Spike (1418010-MS1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Diesel Range Organics (C10-C28) 222 mg/L 250 12.4 84.0 75-125

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Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

Total Metals by 6010 - 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 1418022 - Metal Solid Digestion EPA 3051A

Blank (1418022-BLK1)

Prepared: 30-Apr-14 Analyzed: 01-May-14

Arsenic	ND	1.00	mg/kg
Barium	ND	5.00	"
Cadmium	ND	1.00	"
Chromium	ND	1.00	"
Copper	ND	1.00	"
Lead	ND	1.00	"
Mercury	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	1.00	"
Silver	ND	1.00	"
Zinc	ND	1.00	"

Duplicate (1418022-DUP1)

Source: P404074-01

Prepared: 30-Apr-14 Analyzed: 01-May-14

Arsenic	2.65	0.97	mg/kg	2.54	4.06	30
Barium	603	4.83	"	520	14.9	30
Cadmium	2.34	0.97	"	2.34	0.135	30
Chromium	25.2	0.97	"	22.0	13.5	30
Copper	17.5	0.97	"	17.1	2.23	30
Lead	12.1	0.97	"	12.3	1.47	30
Mercury	1.23	0.97	"	ND		30
Nickel	10.7	0.97	"	10.5	1.45	30
Selenium	6.13	0.97	"	6.11	0.281	30
Silver	ND	0.97	"	ND		30
Zinc	63.5	0.97	"	60.4	5.14	30

Matrix Spike (1418022-MS1)

Source: P404074-01

Prepared: 30-Apr-14 Analyzed: 01-May-14

Arsenic	0.23	mg/L	0.250	0.02	83.5	75-125
Barium	10.6	"	5.00	5.01	112	75-125
Cadmium	0.24	"	0.250	0.02	88.2	75-125
Chromium	0.68	"	0.500	0.21	94.2	75-125
Copper	0.60	"	0.500	0.16	87.0	75-125
Lead	0.53	"	0.500	0.12	82.7	75-125
Mercury	0.09	"	0.100	0.005	84.4	75-125
Nickel	0.53	"	0.500	0.10	85.1	75-125
Selenium	0.15	"	0.100	0.06	89.8	75-125
Silver	0.09	"	0.100	ND	86.3	75-125
Zinc	1.04	"	0.500	0.58	92.3	75-125

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 PO Box 21218
 Tulsa OK, 74121-1358

 Project Name: Ignacio 33-7 #017A
 Project Number: 04108-0006
 Project Manager: Buddy Shaw

 Reported:
 02-May-14 15:03

Total Petroleum Hydrocarbons by 418.1 - 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 1418021 - 418 Freon Extraction
Blank (1418021-BLK1)

Prepared & Analyzed: 30-Apr-14

Total Petroleum Hydrocarbons ND 20.0 mg/kg

Duplicate (1418021-DUP1)

Source: P404060-01

Prepared & Analyzed: 30-Apr-14

Total Petroleum Hydrocarbons 24.0 20.0 mg/kg 23.9 0.120 30

Matrix Spike (1418021-MS1)

Source: P404060-01

Prepared & Analyzed: 30-Apr-14

Total Petroleum Hydrocarbons 1750 20.0 mg/kg 2020 23.9 85.2 80-120

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Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

Cation/Anion Analysis - 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 1418013 - Anion Extraction EPA 300.0

Blank (1418013-BLK1)

Prepared & Analyzed: 29-Apr-14

Chloride	ND	9.97	mg/kg							
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LCS (1418013-BS1)

Prepared & Analyzed: 29-Apr-14

Chloride	485	9.94	mg/kg	497		97.7	90-110			
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Matrix Spike (1418013-MS1)

Source: P404074-01

Prepared & Analyzed: 29-Apr-14

Chloride	500	9.95	mg/kg	498	ND	100	80-120			
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Matrix Spike Dup (1418013-MSD1)

Source: P404074-01

Prepared & Analyzed: 29-Apr-14

Chloride	494	9.84	mg/kg	492	ND	100	80-120	1.32	20	
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Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

Boron-Hot Water Soluble by EPA 6010 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1418028 - Boron HW Soluble Digestion										
Blank (1418028-BLK1)				Prepared: 30-Apr-14 Analyzed: 01-May-14						
Boron	ND	0.50	mg/L							
Duplicate (1418028-DUP1)				Source: P404074-01 Prepared: 30-Apr-14 Analyzed: 01-May-14						
Boron	ND	0.50	mg/L		ND				30	
Matrix Spike (1418028-MS1)				Source: P404074-01 Prepared: 30-Apr-14 Analyzed: 01-May-14						
Boron	0.69		mg/L	0.500	0.19	99.0	75-125			

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Project Name: Ignacio 33-7 #017A
Project Number: 04108-0006
Project Manager: Buddy Shaw

Reported:
02-May-14 15:03

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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