



Western Water & Land, Inc.

April 21, 2015

Mr. Mike Shoemaker
Environmental Specialist Senior Staff
WPX Energy Rocky Mountain LLC
1058 County Road 215
Parachute, Colorado 81635

RE: Status Report: Baseline Water Quality Sampling – RU 34-6 Drill Pad

Dear Mr. Gardner,

Western Water & Land, Inc. (WWL) completed a hydrologic Water Source evaluation for the WPX Energy Rocky Mountain LLC (WPX) RU 34-6 Drill Pad in accordance with Colorado Oil and Gas Conservation Commission (COGCC) Rule 609. Drill Pad RU 34-6 is located in SW¼ SE¼, Section 6, Township 7 S, Range 93 W, 6th P.M. This status report addresses field revisions and the sampling location status as relevant to the original executed Baseline Water Quality Evaluation dated March 27, 2014.

The original evaluation considered all Water Sources as defined in Rule 609 within a 0.5-mile radius of the referenced drill pad. Water Sources located within a 0.5-mile radius of the RU 34-6 Drill Pad are shown in Figure 1. Please see the original Baseline Water Quality Evaluation (March 27, 2014) for complete details on how the evaluation was conducted.

Water Source Identification

Water Sources as defined in Rule 609 include Colorado Division of Water Resources (DWR) registered water wells (water wells with existing valid well permits), permitted or adjudicated springs, and monitoring wells installed for baseline sampling and monitoring under COGCC Rules 318A.e(4), 608, 609, or 908. Each Water Source identified within the 0.5-mile radius area is considered to be a potentially Available Water Source unless existing information suggests that the Water Source would not be suitable for the baseline water quality program. The original Baseline Water Quality Evaluation identified two potentially Available Water Sources located within 0.5 miles of the RU 34-6 Drill Pad (see Figure 1). Well permits with the status “Permit issued; Completion status unknown” were not initially included as potentially Available Water Sources. However, because DWR databases are not always up to date, or may have errors, WWL has since revised this approach and includes permits with this status as potentially Available Water Sources.

The identified potentially Available Water Sources are summarized as follows:

- North Flatiron Spring: water right owned by United States of America C/O John R Kunz Special Assistant US Attorney; property owned by Bureau of Land Management, Colorado River Valley Field Office

- Yellow Jacket Spring: water right and property owned by Bureau of Land Management, Colorado River Valley Field Office

Preferred Water Sources

In accordance with Rule 609, all potentially Available Water Sources within a 0.5-mile radius of the drill pad are to be identified and up to a maximum of four sources must be included in the baseline and subsequent monitoring program. Each potentially Available Water Source identified was evaluated based on WWL's hydrologic knowledge of the region, general hydrologic rationale, and in accordance with the guidelines specified in Rule 609 to identify the preferred sources for the baseline program. Since only two potentially Available Water Sources were identified they are considered to be preferred Water Sources. The preferred potentially Available Water Sources were selected as follows:

- North Flatiron Spring
- Yellow Jacket Spring

Preferred Water Sources are incorporated into the baseline water quality monitoring program provided the structures exist, and the structure owner, or land owner if the structure owner is not known, grants approval to sample the source and inspection of the structure confirms that a representative sample can be obtained from the structure.

Access Request

Potentially Available Water Sources for Drill Pad RU 34-7 include those identified for RU 11-7 Completions Pit. Access request letters were mailed for Drill Pad RU 34-6 on April 18, 2014. An access request was not necessary to access BLM springs. WPX submitted a Sundry Notice form to the BLM upon locating and conducting baseline sampling of a BLM spring.

All attempts requesting permission to sample potentially Available Water Sources from the well permit holders and from the property owners are recorded in the Correspondence Logs below. Access request letters, certified mailing receipts, mailings that were returned to sender, mailed responses, and email correspondence are included in Attachment A.

Correspondence Log: RU 34-6				
Contact Attempt Date	Contact Name	Contact Method	Responsible Person	Results
4/18/2014	BLM, Attn: Jennifer Robinson, Colorado River Valley Field Office	Certified Mail: Access Request Letter	NWS	Written response granting permission to sample received on 07/23/2014.

Field Results

Each identified potentially Available Water Source and its monitoring status is as follows:

- North Flatiron Spring: water right owned by United States of America C/O John R Kunz Special Assistant US Attorney; property owned by Bureau of Land Management, Colorado River Valley Field Office
 - Inadequate flow, unable to collect sample.
- Yellow Jacket Spring: water right and property owned by Bureau of Land Management, Colorado River Valley Field Office
 - WWL conducted baseline sampling of this spring on March 5, 2014.

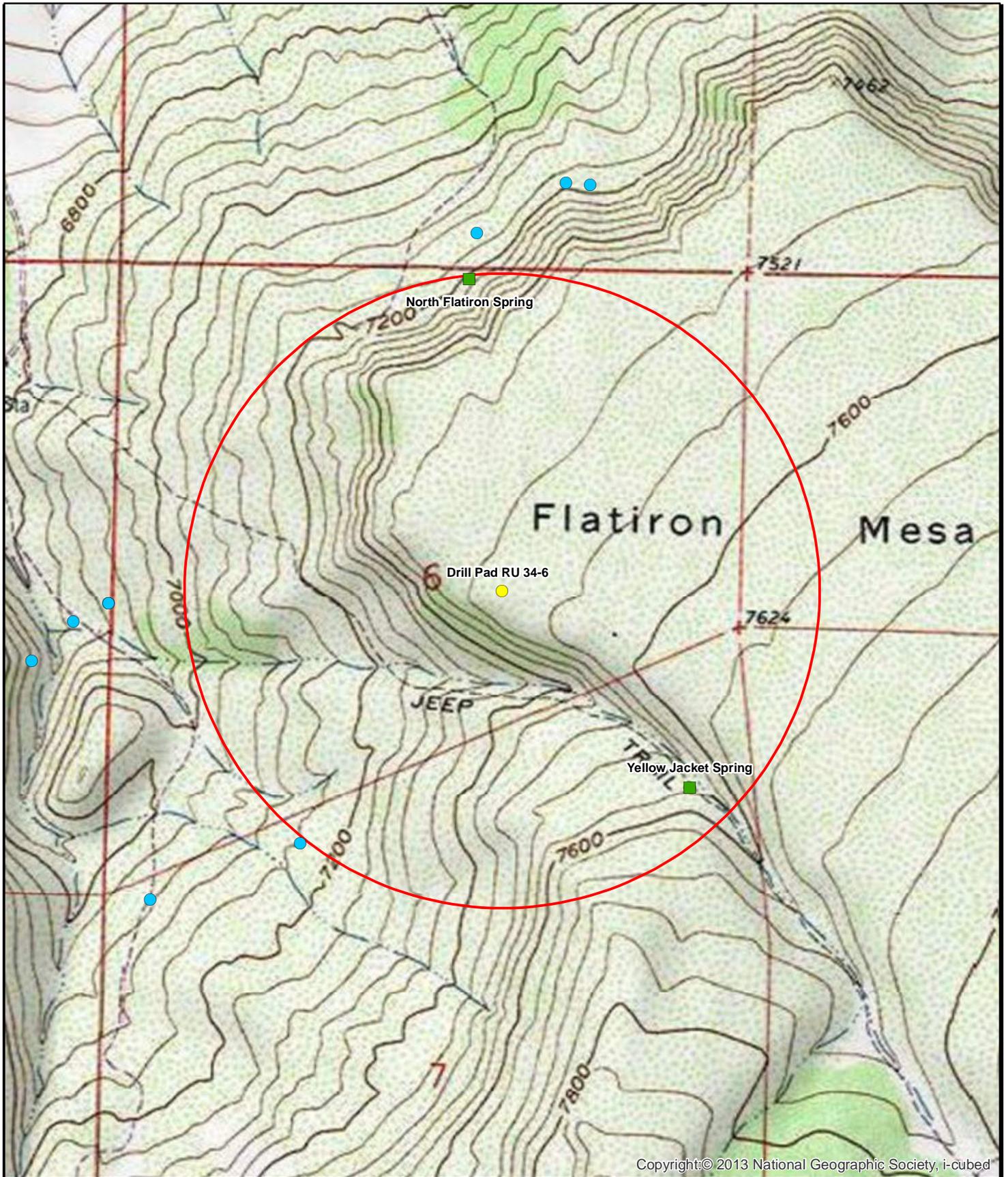
WWL personnel conducted field reconnaissance on October 13, 2014 to locate North Flatiron Spring according to location information acquired from Division of Water Resources (DWR) databases. The spring was accessed from BLM land. While approaching the spring, a barbed wire fence was encountered, and it was unsure if the fence represented a property boundary line or not; WWL did not collect a sample. On December 4, 2014, WWL personnel returned to the spring location with permission from the adjacent landowner to access the spring from their property. An emanation point was located, however, a sample was not collected due to inadequate flow. Pictures from field reconnaissance are included in Attachment B. As a result of these events, Yellow Jacket Spring is the only Available Water Source included in the baseline water quality sampling program for Drill Pad RU 34-6.

If you have any questions or concerns, please contact me at (970) 242-0170.

Sincerely,



Bruce D. Smith
Principal Hydrogeologist
WESTERN WATER & LAND, INC.
Attachments



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**Figure 1: Drill Pad RU 34-6
0.5 Mile Radius Water Source Evaluation
SW1/4, SE1/4, S6, T7S, R93W, 6 PM**

Garfield County, Colorado

WPX Energy Rocky Mountain LLC

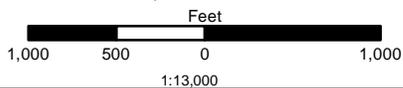
Basemap Source: Esri ArcGIS Online



Western Water & Land, Inc.
Applications in Earth Science

Legend

- Decree
- Constructed well
- Outside sources
- Drill Pad RU 34-6
- 0.5-Mile Radius Evaluation Area
- Completion Status Unknown



Attachment A

Access Request Documentation



July 1, 2014

Bureau of Land Management
Attn: Jennifer Robinson
Colorado River Valley Field Office
2300 River Frontage Road
Silt, CO 81652

RE: Baseline Groundwater Monitoring Program: Drill Pad RU 34-6

Dear Ms. Robinson:

Under Colorado Oil and Gas Conservation Commission (COGCC) Rule 609, all oil and gas operators are required to conduct baseline groundwater sampling and monitoring within one-half mile of a well pad containing new production well(s) or injection well(s). The rule was promulgated to gather baseline water quality data prior to oil and gas development occurring within a particular area and to gather additional water quality data after drilling and completion operations.

Sampling sites may be registered water wells or permitted or adjudicated springs. Up to four groundwater sampling sites will be included in the baseline sampling and monitoring program within the one-half mile radius of the well pad. Sampling of these groundwater sites will occur three times; once within 12 months prior to drilling the first well on the pad, once between 6 and 12 months after completion of the last well on the pad, and once between 60 and 72 months after completion of the last well on the pad. Final water quality results of each sample will be provided to the well or spring owner and to COGCC.

WPX Energy Rocky Mountain, LLC (WPX) is planning on constructing Drill Pad RU 34-6 and/or a new well located in the SW1/4, SE1/4, Section 6, Township 7 S, Range 93 W 6th P.M. Our research of state databases indicates that you may own property and/or hold one or more state permits or water right decrees for wells or springs located on property within 0.5 miles of the well pad. These identified wells and/or springs are listed below:

1. **North Flatiron Spring:** Latitude/Longitude (decimal degrees): 39.474956, -107.816181
Water Right Case No(s): 94CW0341
2. **Yellow Jacket Spring:** Latitude/Longitude (decimal degrees): 39.463490, -107.809224
Water Right Case No(s): 04CW0218

These structures may qualify for baseline sampling and monitoring under Rule 609. If you do not have a well or spring on your property, or if you choose not to have your well or spring sampled for baseline water quality under Rule 609, please indicate so on the Acknowledgment Form provided in this letter.

This Acceptance Letter and Acknowledgment Form apply to the above water sources only. You may receive additional Acknowledgment Forms in the future for other water sources under your ownership or control that are related to other planned WPX drill pads or wells. Your decision to approve or decline participation in the baseline water quality program for the above water sources will also apply for new future WPX drill pads and wells other than Drill Pad RU 34-6 that are located within the 0.5 mile distance of these water sources. In these cases, a new Acknowledgment Form will not be mailed to you.

If you chose to include your well or spring in the Baseline Groundwater Sampling and Monitoring Program, please complete the attached questionnaire prepared by WPX to evaluate the groundwater source(s). The questionnaire is intended to assist WPX in the assessment of the best potential baseline groundwater monitoring sites.

Completion of the attached questionnaire is not required for consideration of your well or spring for the program, but final selection of sampling sites may be partially dependent on the results of the questionnaire. Completing the questionnaire and approval to sample your water source does not guarantee that your well or spring will be selected for the baseline sampling and monitoring program. Completed questionnaires will be confidential except for information that is required to be reported to the state.

If you agree to have your well or spring become a monitoring site for the program, and said well or spring is selected for sampling and monitoring, water quality data results will be provided to you and to COGCC within 3 months of sample collection. Please note that COGCC will make the results public by posting the results on the agency's public database and that by signing below to agree to have your well sampled, you also grant WPX permission to provide the data results to COGCC and COGCC's public database.

Please sign and date the attached Acknowledgment Form indicating your choice of participation in the program and return the form using the included pre-addressed envelope. If WPX does not receive this executed letter within 30 days from the date above, WPX will consider that you do not want to participate in the program. Please contact your WPX land representative at 970-285-9377, or myself at 970-263-2792, with any questions you may have. We appreciate your time and cooperation.

If at any time after returning the Acknowledgment Form you change your mind about your response, you may revise your response by contacting WPX.

Sincerely,

Brandon Danforth
Environmental Specialist, WPX Energy

**Baseline Groundwater Quality Monitoring Program
Acknowledgment Form**

I Allen B. Crockett for BLM (print name), acknowledge that I have been contacted by WPX regarding the possible qualification of my well or spring as a Water Source for baseline groundwater sampling and monitoring under COGCC Rule 609 associated with WPX Drill Pad RU 34-6, located in the SW1/4, SE1/4, Section 6, Township 7 S, Range 93 W 6th P.M. If I agree to have my well or spring water sampled for water quality parameters, I understand that the resulting data will be submitted to the COGCC and will be part of a public database. I understand that if my well or spring is selected as an Available Water Source, I will be contacted by WPX representatives to schedule sample collection. I understand that the baseline groundwater program involves three separate sampling events over a period of time. In addition, I understand that this acknowledgment applies to future new drill pads or wells other than WPX Drill Pad RU 34-6 where the specific water sources may be in question under COGCC Rule 609.

I DO want the following well(s) or spring(s) to be monitored for baseline groundwater quality in accordance with Rule 609 of the COGCC regulations.

1. **North Flatiron Spring:** Latitude/Longitude (decimal degrees): 39.474956, -107.816181
Water Right Case No(s): 94CW0341

2. **Yellow Jacket Spring:** Latitude/Longitude (decimal degrees): 39.463490, -107.809224
Water Right Case No(s): 04CW0218

I DO NOT want my well or spring to be monitored for baseline groundwater quality in accordance with Rule 609 of the COGCC regulations.

Signature: Allen B. Crockett Date: 7/9/14

Print Name: Allen B. Crockett

Address: BLM
2390 River Frontage Rd, Silt, CO 81652

Phone: 970-876-9005

English

Customer Service

USPS Mobile

Register / Sign In



Search USPS.com or Track Packages

Quick Tools

Ship a Package

Send Mail

Manage Your Mail

Shop

Business Solutions

USPS Tracking™



Customer Service ›
Have questions? We're here to help.

Tracking Number: 7013263000112128052

Expected Delivery Day: **Saturday, April 19, 2014**

Product & Tracking Information

Postal Product:
First-Class Mail®

Features:
Certified Mail™

Available Actions

Return Receipt Electronic

DATE & TIME	STATUS OF ITEM	LOCATION
April 21, 2014 , 12:33 pm	Delivered	SILT, CO 81652
Your item was delivered at 12:33 pm on April 21, 2014 in SILT, CO 81652.		
April 19, 2014 , 9:07 am	Business Closed	SILT, CO 81652
April 19, 2014 , 9:00 am	Sorting Complete	RIFLE, CO 81650
April 19, 2014 , 8:52 am	Arrived at Unit	RIFLE, CO 81650
April 18, 2014 , 11:43 am	Acceptance	GRAND JUNCTION, CO 81501

Access Request for:
MV 16-9
PA 34-12
RU 34-6
KP 33-18
SR 24-9

Track Another Package

What's your tracking (or receipt) number?

LEGAL

Privacy Policy ›
Terms of Use ›
FOIA ›
No FEAR Act EEO Data ›

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Buy Stamps & Shop ›
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GRAND JUNCTION CO 81501 04/18/2014

Sent To: **BLM Attn: Jennifer Robinson Valley Field Office**
Street, Apt. No. or PO Box No.: **2300 River Frontage Road**
City, State, ZIP+4: **SILT, CO 81652**

PS Form 3800, August 2006 See Reverse for Instructions

Date: August 13, 2014

Bruce Smith:

The following is in response to your August 13, 2014 request for delivery information on your Certified Mail™ item number 70132630000112128052. The delivery record shows that this item was delivered on April 21, 2014 at 12:33 pm in SILT, CO 81652. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section	
ature	<i>Kent Tyler</i>
red ne	KENT TYLER

Address of Recipient :

very rees	2300 River Frontage
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Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

Attachment B

Field Reconnaissance Photographs



Photograph 1: North Flatiron Spring emanation point



Photograph 2: Saturated drainage from North Flatiron Spring