



Western Water & Land, Inc.

August 14, 2013

Mr. Brandon Danforth  
Environmental Specialist  
WPX Energy  
1058 County Road 215  
Parachute, Colorado 81635

**RE: RMV 205-20 Injection Pad Baseline Water Quality Evaluation**

Dear Mr. Danforth,

Western Water & Land, Inc. (WWL) has completed a hydrologic water source evaluation for the WPX Energy Rocky Mountain LLC (WPX) RMV 205-20 Injection Pad in accordance with COGCC Rule 609. Injection Pad RMV 205-20 is located in SW1/4, NW1/4, Section 20, Township 6 S, Range 94 W, 6 PM. The evaluation considered all water sources as defined in Rule 609 within a 0.5-mile radius of the referenced injection pad. Water sources located on the basis of section quarters were included in the evaluation if the any portion of the section quarter(s) lies within the 0.5-mile radius area. A preliminary screening of the water sources was completed to identify the sources considered to be potentially available for sampling pending results of the owner questionnaire and field inspections to verify sampling feasibility and the consent of the structure owners. Each potentially available water source was then evaluated to identify the preferred sources for the baseline program. If the resulting number of potentially available sources was four or less, all of the sources were included in the list of preferred sources. If more than four sources were potentially available, the sources were prioritized based on WWL's hydrologic knowledge of the region, general hydrologic rationale, and in accordance with the guidelines specified in Rule 609.

**Water Sources**

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, or 609. Water sources located within a 0.5-mile radius of the RMV 205-20 Injection Pad are shown in Figure 1. Monitoring Hole permits (MH designation) and expired, canceled, or denied well permits of any type are not shown in Figure 1 unless otherwise described in this report. No water sources were identified to fall within the 0.5-mile radius area.

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

Sincerely,

Bruce D. Smith

Mr. Brandon Danforth

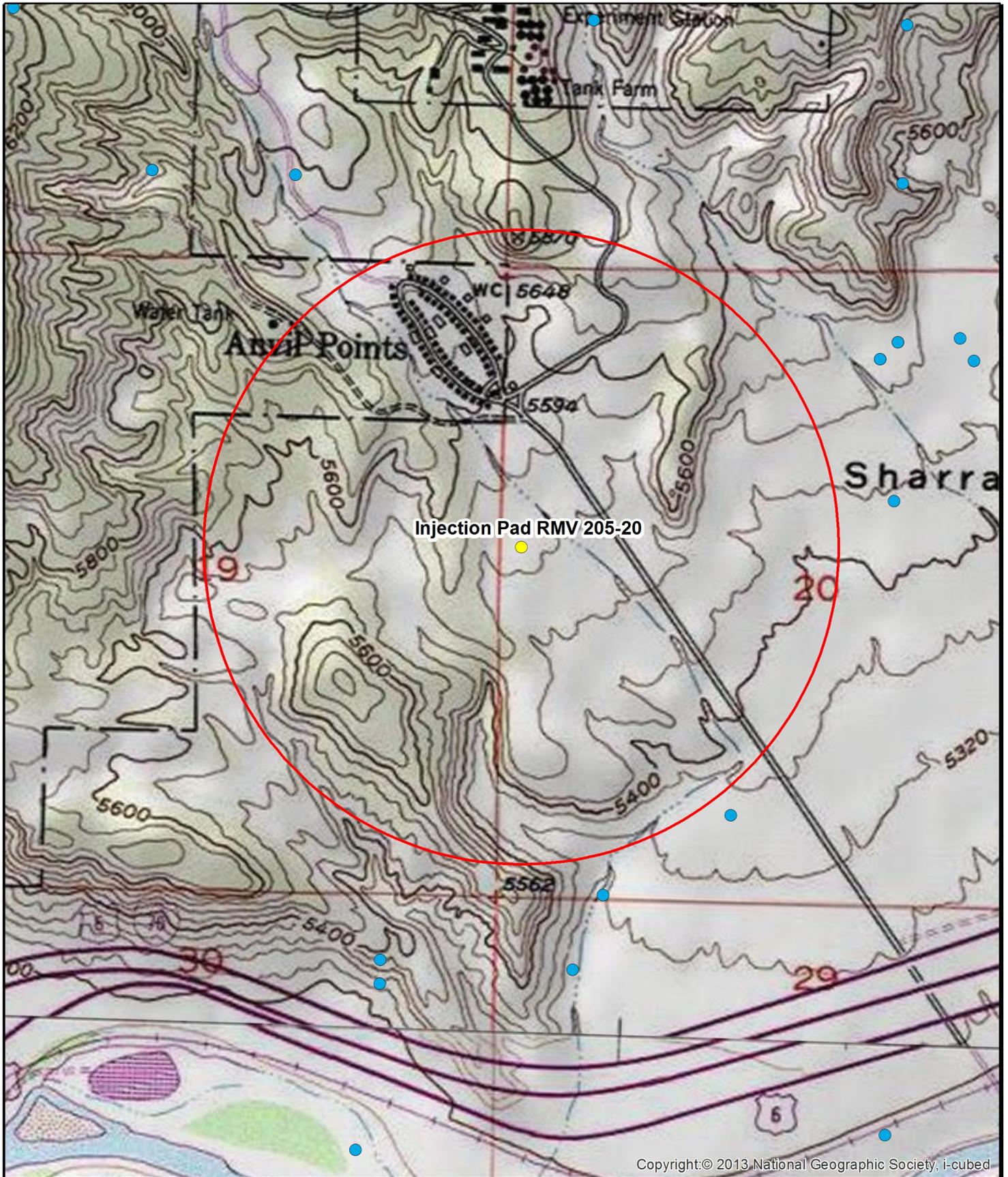
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Principal Hydrogeologist

WESTERN WATER & LAND, INC.

Attachments



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**Legend**

- Decree
- Constructed well
- Outside sources
- Injection Pad RMV 205-20
- 0.5-Mile Radius Evaluation Area
- No permit or not completed

Feet

1,000    500    0    1,000

1:13,000

N

**Figure 1: Injection Pad Location RMV 205-20  
0.5 Mile Radius Water Source Evaluation  
SW1/4, NW1/4, S20, T6S, R94W, 6 PM**

Garfield County, Colorado  
 WPX Energy Rocky Mountain LLC  
 Basemap Source: Esri ArcGIS Online



Western Water & Land, Inc.  
 Applications in Earth Science