



Western Water & Land, Inc.

July 1, 2014

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

RE: SG 22-32 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) SG 22-32 Injection Pad in accordance with Colorado Oil and Gas Conservation Commission (COGCC) Rule 609. Injection Pad SG 22-32 is located in SE1/4, NW1/4, Section 32, Township 7 S, Range 96 W 6th P.M. 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 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 baseline sampling pending results of the owner questionnaire, consent of the structure owners, and field inspections to verify sampling feasibility. 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 SG 22-32 Injection Pad are shown in Figure 1. Well permit files and water right files, where applicable, are included for preferred Water Sources in Attachment A. Structure owners are identified as reported in DWR databases. Monitoring Hole permits (MH designation), and abandoned, canceled, denied, or expired permits of any type are not shown in Figure 1 within the 0.5 mile radius unless otherwise described in this report. Similarly, water right decrees that are shown as having a non-existent or unusable structure in the state database may not be shown as a viable water source in Figure 1. Property owners are identified as reported in county property records. The Water Sources within a 0.5-mile radius of Injection Pad SG 22-32 are summarized as follows:

- Water Well Receipt No. 0000697B
 - Applicant/Owner:
Occidental Oil
Grand Junction, CO 81501
 - Property Owner:
WPX Energy Rocky Mountain, LLC
C/O Merit Advisors, LP
PO Box 330
Gainesville, TX 76241
 - Use(s): Other
 - Well Depth: Unknown
 - Well Yield: Unknown

Potentially Available Water Sources

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. State records do not show that water well receipt no. 0000697B is permitted, or that the well was constructed. In addition, WWL's knowledge of the area indicates that some monitoring wells may have been constructed to support Occidental Oil Shale, Inc. These wells did not have pumps installed. Therefore, this well reference is not considered to qualify as an Available Water Source. No potentially Available Water Sources were identified to fall within the 0.5-mile radius area of Injection Pad SG 22-32.

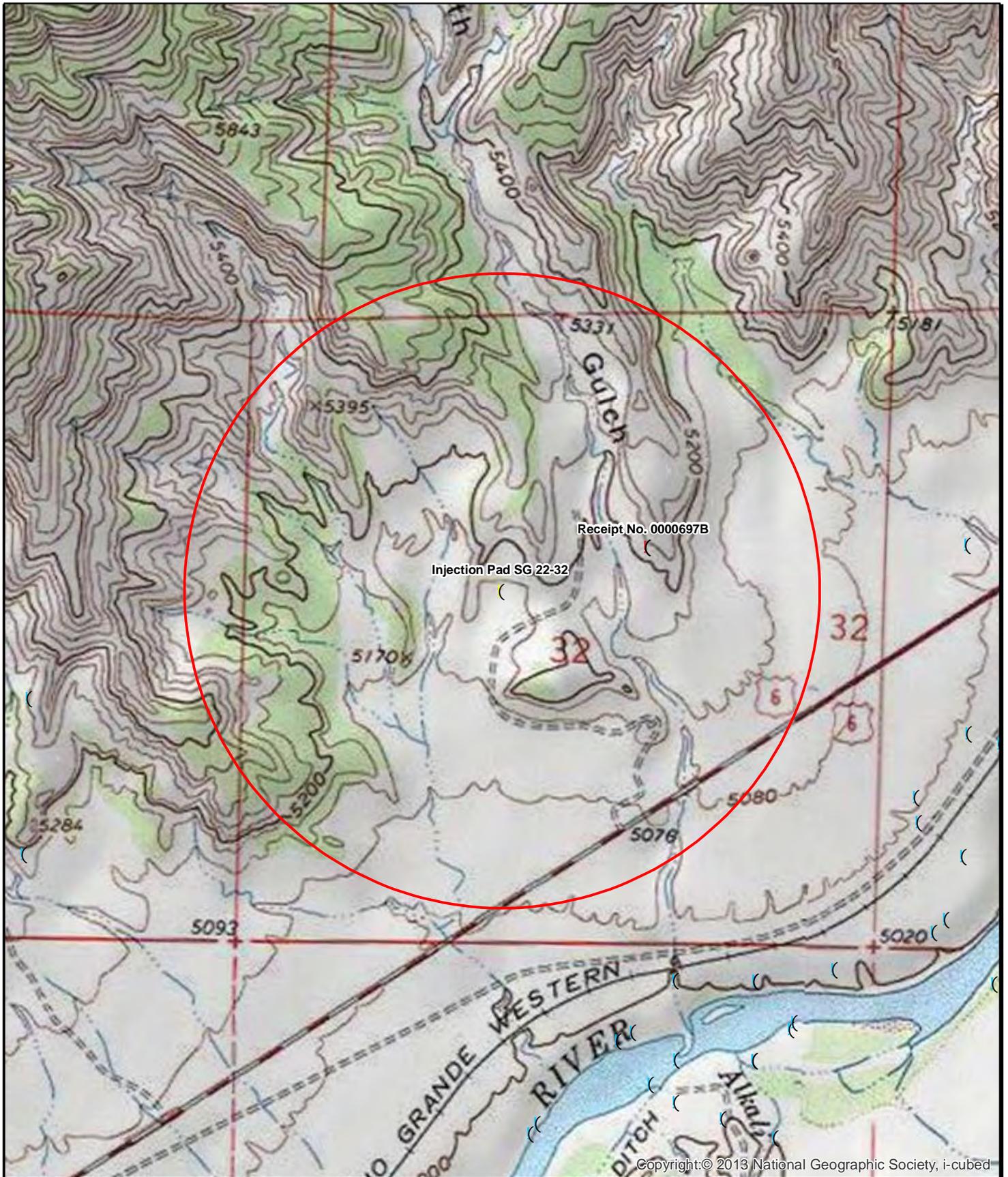
If you have any questions or concerns, please contact me at (970) 242-0170.

Sincerely,



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

Attachment



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**Figure 1: Injection Pad SG 22-32
0.5 Mile Radius Water Source Evaluation
SE1/4, NW1/4, S32, T7S, R96W, 6 PM**

Legend

- Decree
- Constructed well
- Outside permits or decrees
- Injection Pad SG 22-32
- 0.5-Mile Radius Evaluation Area
- Completion Status Unknown

Feet

1,000 500 0 1,000

1:13,000

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



Western Water & Land, Inc.
 Applications in Earth Science