



October 26, 2017

Mr. Mike Gardner
TEP Environmental Specialist
TEP Rocky Mountain LLC
1058 County Road 215
Parachute, Colorado 81635

RE: RWF 13-19 Drill Pad Baseline Water Quality Evaluation

Dear Mr. Gardner,

Western Water & Land, Inc. (WWL) has completed a hydrologic Water Source evaluation for the TEP Rocky Mountain LLC (TEP) RWF 13-19 Drill Pad in accordance with Colorado Oil and Gas Conservation Commission (COGCC) Rule 609. Drill Pad RWF 13-19 is located in NW¹/₄, SW¹/₄, Section 19, Township 6S, Range 94 W, 6th P.M. The evaluation considered all Water Sources as defined in Rule 609 within a 0.5-mile radius of the referenced drill 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, 609, 908.b(9) or specified conditions of approval. Water Sources located within a 0.5-mile radius of the RWF 13-19 Drill 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 Drill Pad RWF 13-19 are summarized as follows:

- Water Well Permit No. 202848
 - Applicant/Owner:
Harry Naugle
PO Box 829
Rifle, CO 81650
 - Land Owner:
Harry Naugle
PO Box 829
Rifle, CO 81650
 - Uses: Domestic
 - Well Depth: 185 ft.
 - Well Yield: 5.5 gpm

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. The following Water Sources are considered potentially available for inclusion in the baseline program; access request letters will be sent to permit applicants and landowners:

- Water Well Permit No. 202848

Preferred Water Sources

In accordance with Rule 609, all Available Water Sources within a 0.5-mile radius of the drill pad, up to a maximum of four sources, must be included in the baseline and subsequent monitoring program. Because only one potentially available source was identified, it is considered to be the preferred source. The preferred potentially Available Water Source is as follows:

- Water Well Permit No. 202848

The preferred Water Sources will be incorporated into the baseline water quality monitoring program provided the structure owner, or land owner if the structure owner is not known, grants approval to sample the source and a field inspection confirms that a reasonably representative sample can be obtained from the structure.

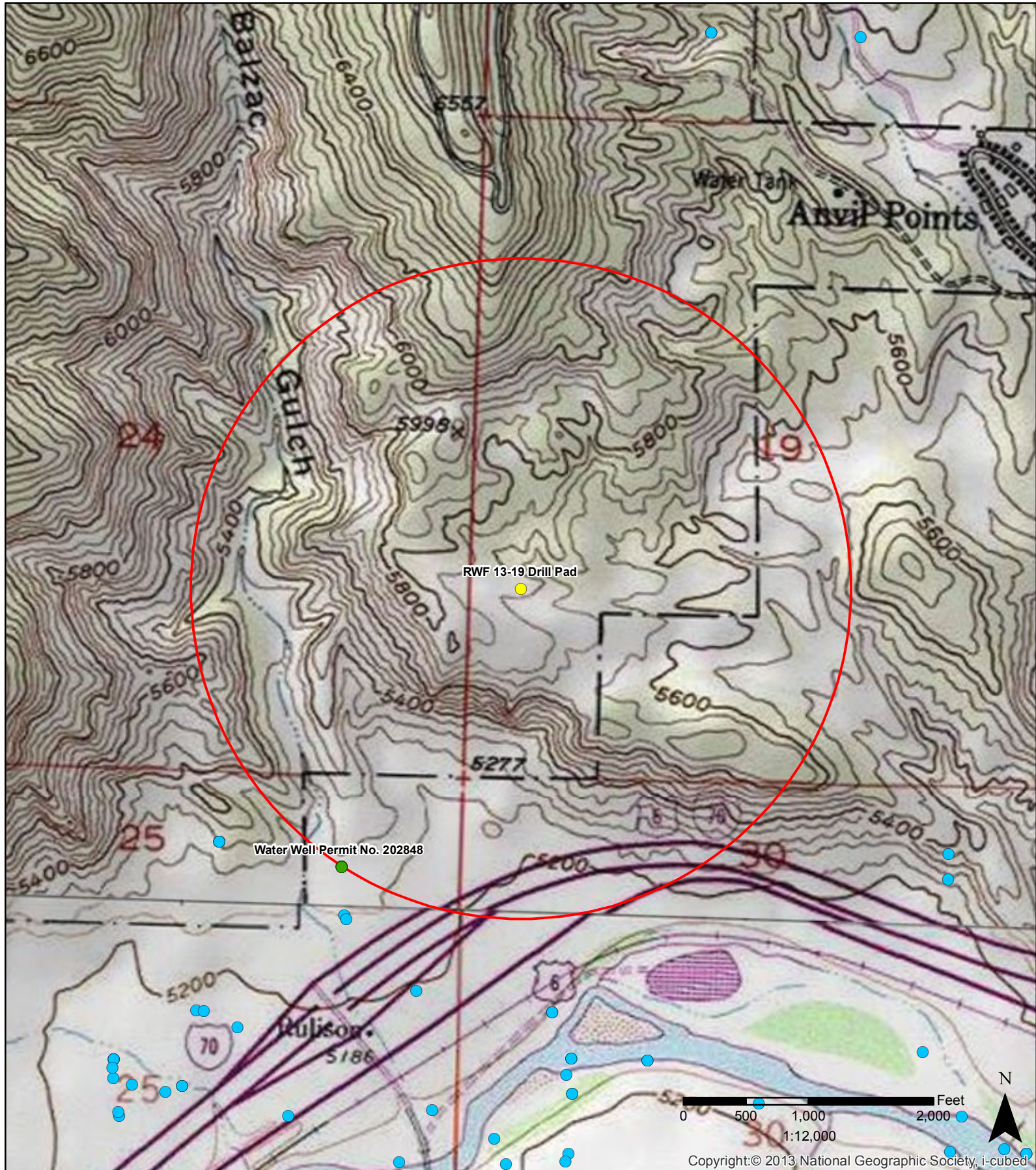
If you have any questions or concerns, please contact me at (970) 242-0170.

Sincerely,



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

Attachment



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Legend	
● RWF 13-19 Drill Pad	■ Water right decree
 0.5-mile radius evaluation area	● Outside permits or decrees
● Constructed well	● Well completion status unknown

**Figure 1: RWF 13-19 Drill Pad
0.5-Mile Radius Water Source Evaluation
NW 1/4, SW 1/4, S19, T6S, R94W, 6 PM**

Garfield County, Colorado
TEP Rocky Mountain, LLC



Attachment A

Water Source Records

WELL CONSTRUCTION AND TEST REPORT
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

For Office Use only

REC'D

1. WELL PERMIT NUMBER MH-21574-202848

JUL 30 1997

2. OWNER NAME(S) HARRY L. NAUGLE
Mailing Address PO Box 829
City, St. Zip Rifle Co. 81650
Phone (970) 625-1139

WATER RESOURCES
STATE ENGINEER
COLO.

202848

3. WELL LOCATION AS DRILLED: NE 1/4 NE 1/4, Sec. 25 Twp. 6 S, Range 95 W.
DISTANCES FROM SEC. LINES:
640 ft. from North Sec. line. and 500 ft. from EAST Sec. line. OR
(north or south) (east or west)
SUBDIVISION: _____ LOT _____ BLOCK _____ FILING(UNIT) _____
STREET ADDRESS AT WELL LOCATION: _____

4. GROUND SURFACE ELEVATION _____ ft. DRILLING METHOD _____
DATE COMPLETED Dec. 10 93 TOTAL DEPTH 185 ft. DEPTH COMPLETED 185 ft.

5. GEOLOGIC LOG:
Depth Description of Material (Type, Size, Color, Water Location)
0-10- DIRT + sand
10-50- gravelly shale - Flat
50-85- sandstone shale -
85-145- shaly gravel
145-155- sandstone - Fine water
155-185- sand + gravel hard pan -

REMARKS: _____

6. HOLE DIAM. (in.)	From (ft)	To (ft)
<u>8 1/2</u>	<u>0</u>	<u>145</u>
<u>6 3/8</u>	<u>145</u>	<u>185</u>

7. PLAIN CASING				
OD (in)	Kind	Wall Size	From(ft)	To(ft)
<u>6 3/8</u>	<u>steel</u>	<u>.210</u>	<u>+2</u>	<u>-143</u>
<u>4 1/2</u>	<u>PVC</u>	<u>200class</u>	<u>-5</u>	<u>-165</u>
PERF. CASING: Screen Slot Size: <u>screen</u>				
<u>4 1/2</u>	<u>PVC</u>	<u>200class</u>	<u>165</u>	<u>185</u>

8. FILTER PACK:
Material _____
Size _____
Interval _____

9. PACKER PLACEMENT:
Type _____
Depth _____

10. GROUTING RECORD:				
Material	Amount	Density	Interval	Placement
<u>*2 Cement</u>	<u>2 cu ft</u>	<u>120</u>	<u>45-70</u>	<u>Tremie</u>
<u>*2 Cement</u>	<u>2 "</u>	<u>100</u>	<u>9-18</u>	<u>poured</u>

11. DISINFECTION: Type chlorine tablets Amt. Used 1 cup

12. WELL TEST DATA: Check box if Test Data is submitted on Supplemental Form.
TESTING METHOD AIR ROTARY Lift
Static Level 60 ft. Date/Time measured 12-9-93- PM 1, Production Rate 5.5 gpm.
Pumping level _____ ft. Date/Time measured _____, Test length (hrs.) 2
Remarks _____

13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

CONTRACTOR INTERSTATE WATER WELLS INC Phone (800) 562-8664 Lic. No. 1239
Mailing Address 1014 N 300N VERNAL UT 84028

Name/Title (Please type or print) <u>Leroy E. Kuchler</u>	Signature <u>Leroy E. Kuchler</u>	Date <u>12-17-93</u>
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