Figure 1. 2007 Regional Ground Water Level Contours and Flow Directions

Water Level Data Sources:

M3 Project Area, Eagle, Star and Meridian: Measurements and Survey - Summer of 2007 by HLI

Emmett and Caldwell Areas: Wells from IDWR Data Base. Locations / Elevations From Google Earth®, MapQuest® and TOPO®

Data contoured by Surfer® with manual contouring near Emmett and Caldwell. Dashed contours where sparce or approximate data appear to yield contours that may or may not be representative.

+ Well: surveyed

✦ Well: estimated location

Approximate Ground Water Flow Directions:

Pierce Gulch Sand Aquifer

"Willow Creek Aquifer" and Payette Valley Aquifer

Water Level Contour Elevation in Feet MSL

2400

(Dashed Where Inferred)

West Boise-Eagle Geologic Fault System

(Dashed Where Inferred)

Contact between bottom of Pierce Gulch Aquifer and underlying mudstone facies of the Terteling Springs Formation (inferred location, dashed where speculative)

Scale: = 1 Mile

North

September 17, 2007

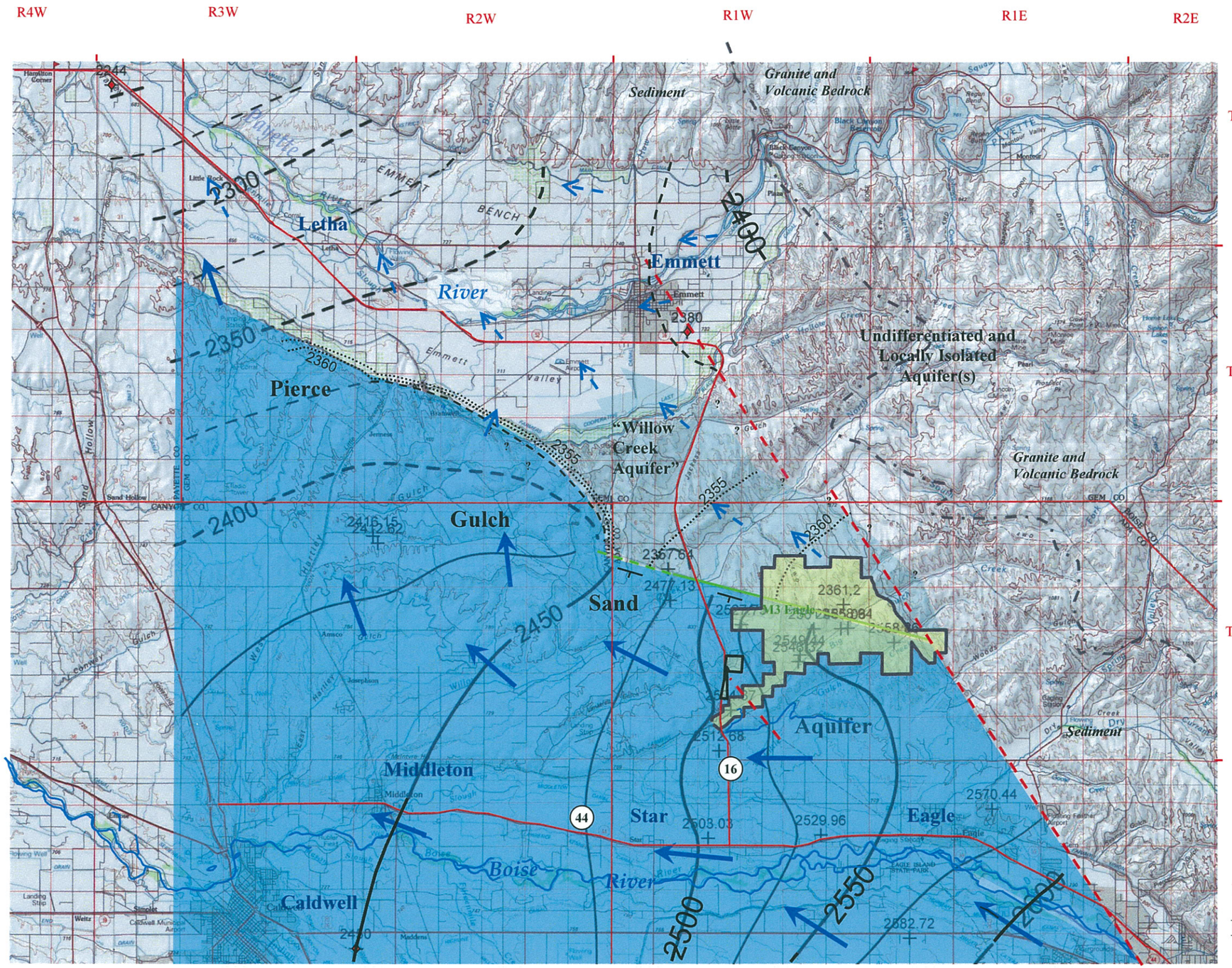

Figure 1.

The black-colored, 50-foot water level contours inside blue shading indicate the northwesterly movement of ground water from the Boise Basin to the Payette Basin north of the Cities of Star, Eagle, and Middleton through the Pierce Gulch Sand Aquifer. The dotted 5-foot water-level contours inside the turquoise area illustrate the relatively flat ground water gradient within the recharge-limited informally named "Willow Creek Aquifer" isolated between low-permeability sediments of the uplands lying to the east of the M3 site and by stratigraphic layering (a day-lighting clay stratum) on the southwest (green solid and dashed line). The boundaries of this aquifer have not been defined as indicated by the "?" symbol.

Hydro Logic, Inc
Boise, Idaho

Figure 2. Locations For Wells Measured During 2007 Regional Ground Water Level Survey

M3 Project Area, Eagle, Star and Meridian: Wells located by GPS Survey Summer of 2007 by HLI and Idaho Survey Group

Emmett and Caldwell Areas: Wells located from maps in HLI files.

Northwest Area: Well located using well log address, MapQuest®,and Google Earth®.

◆ Well water level measured Summer 2007

◆ Well water level from previous periods

Scale: ┌──┐ = 1 Mile

North ↑

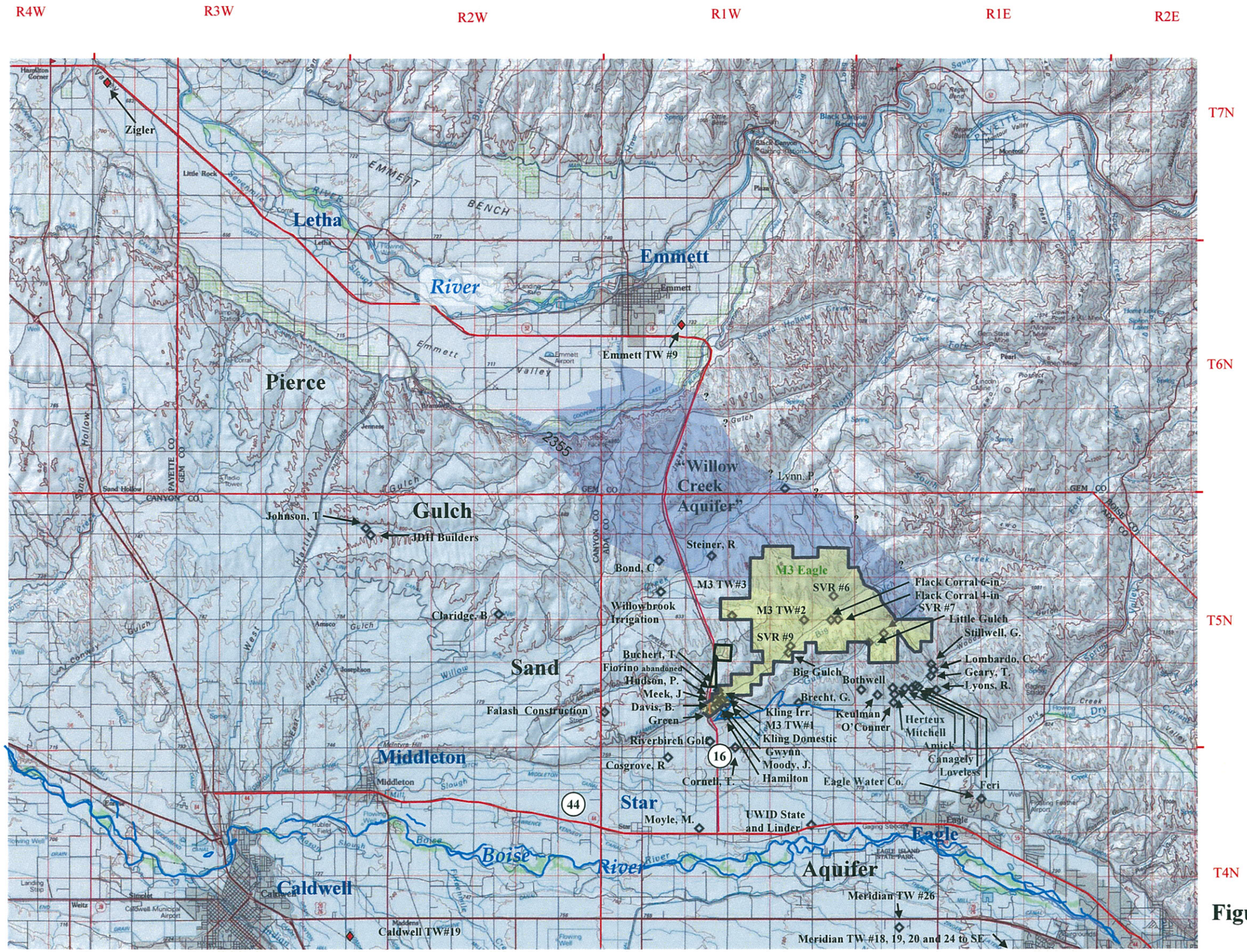

Figure 2.

September 19, 2007

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