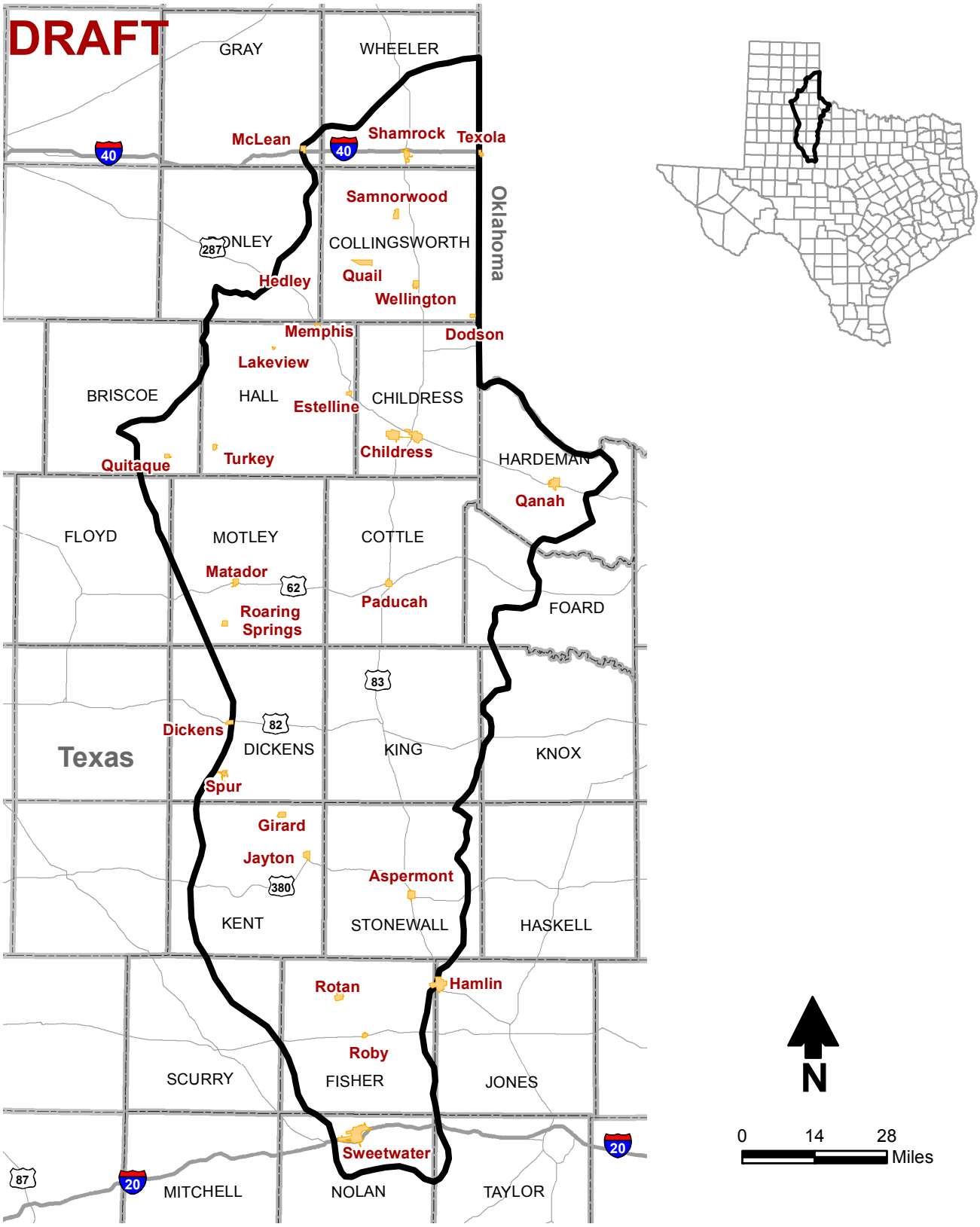


Figure 2-1. Study Area

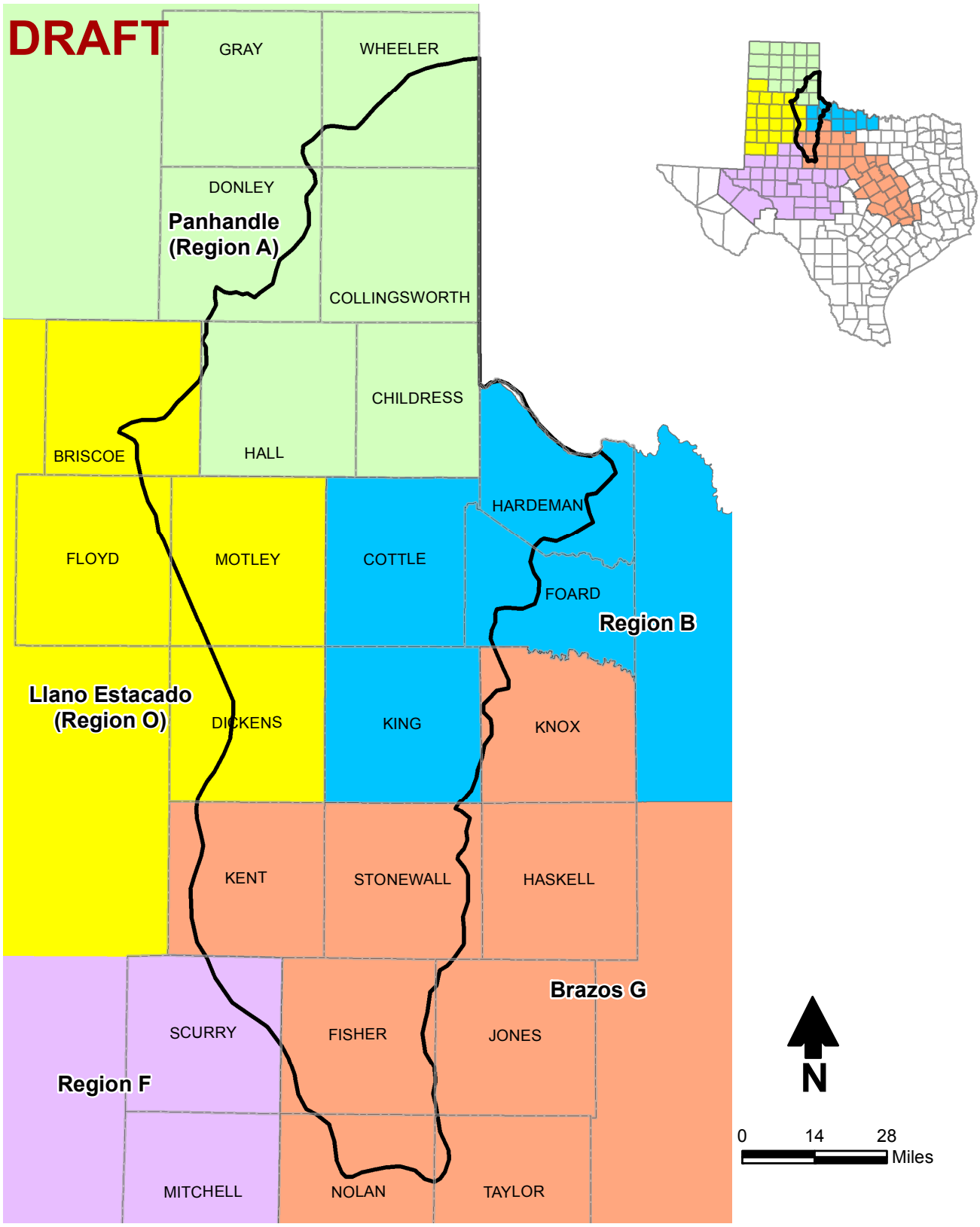


Figure 4-1. Regional Water Planning Areas

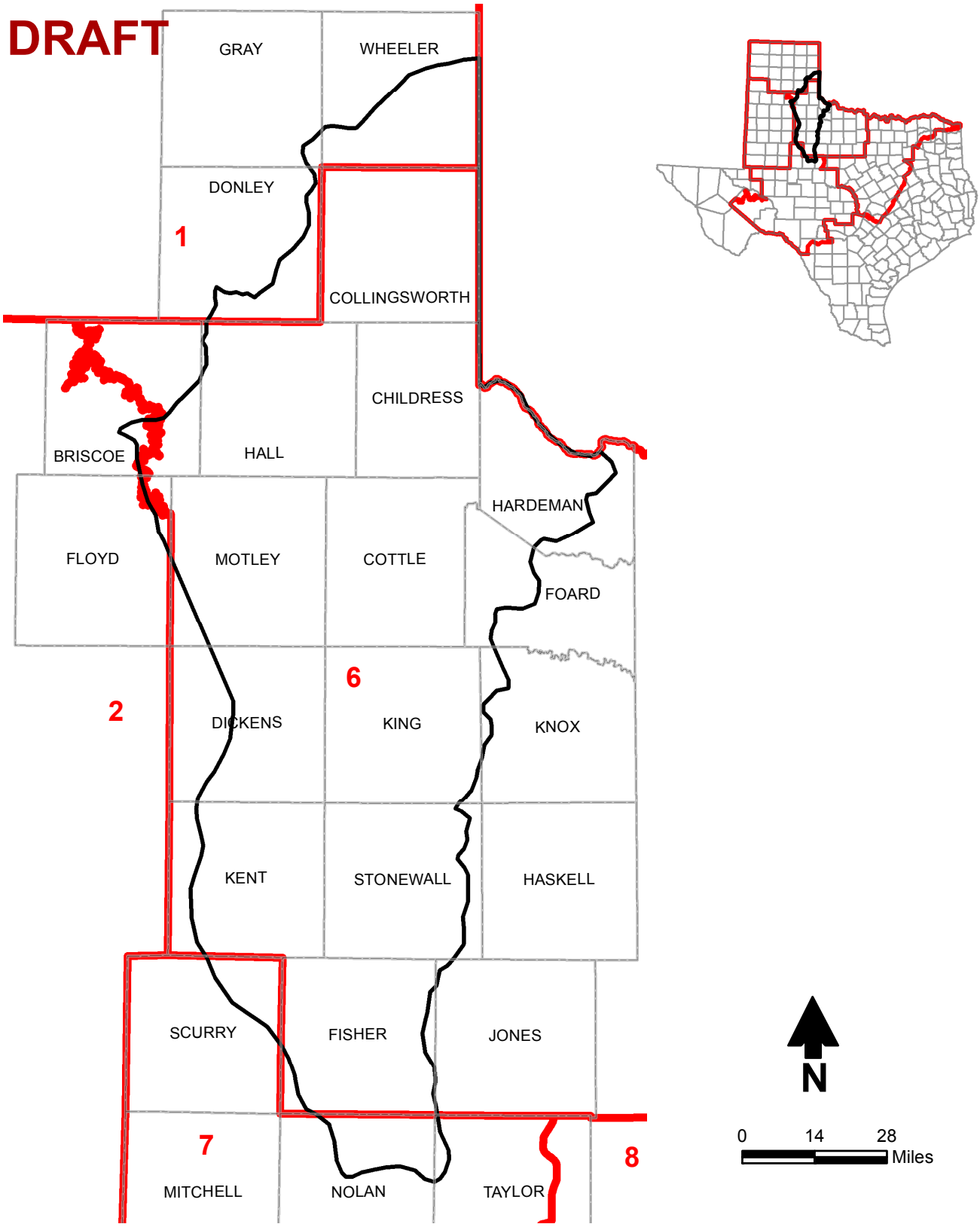


Figure 4-2. Groundwater Management Areas

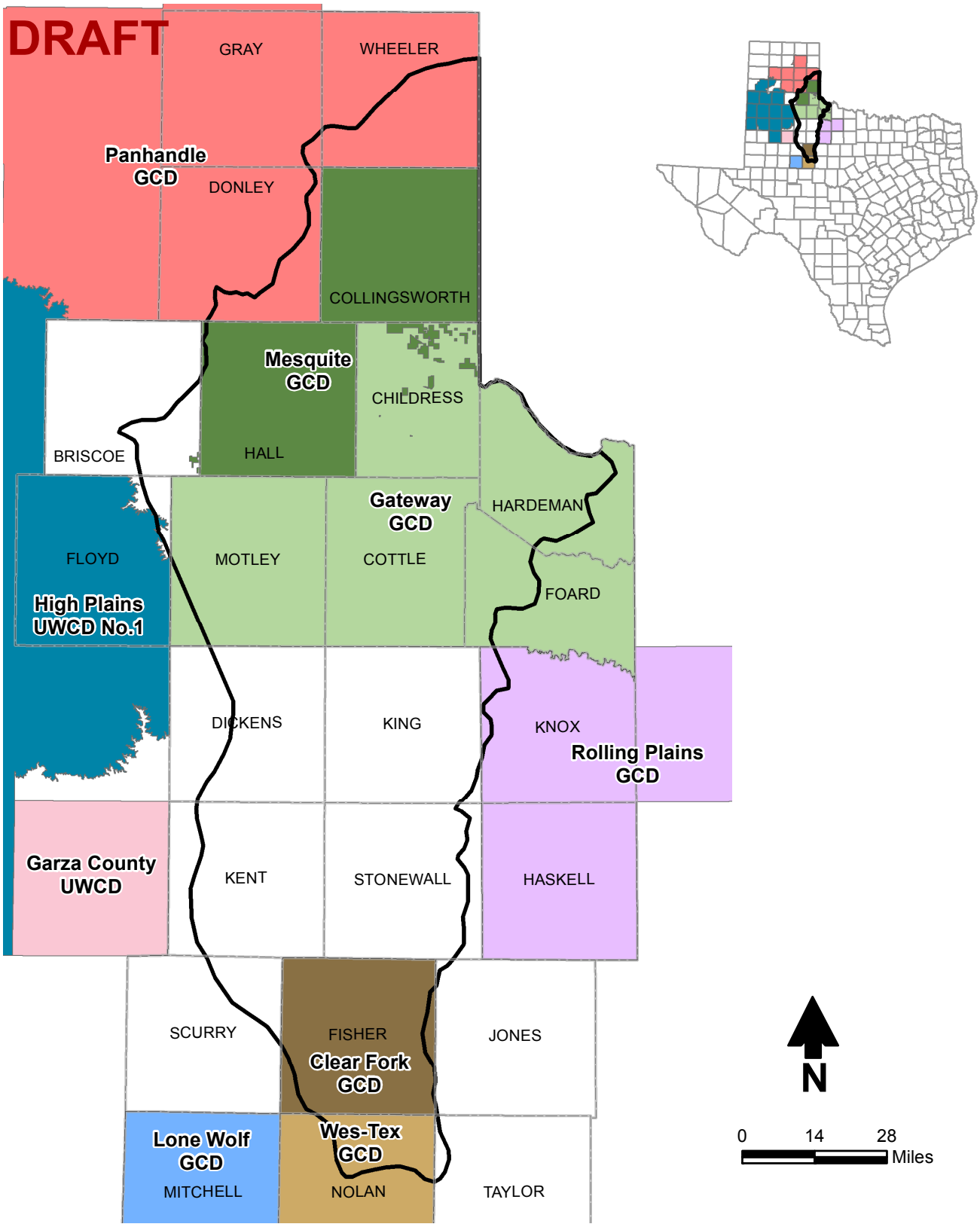


Figure 4-3. Groundwater Conservation Districts

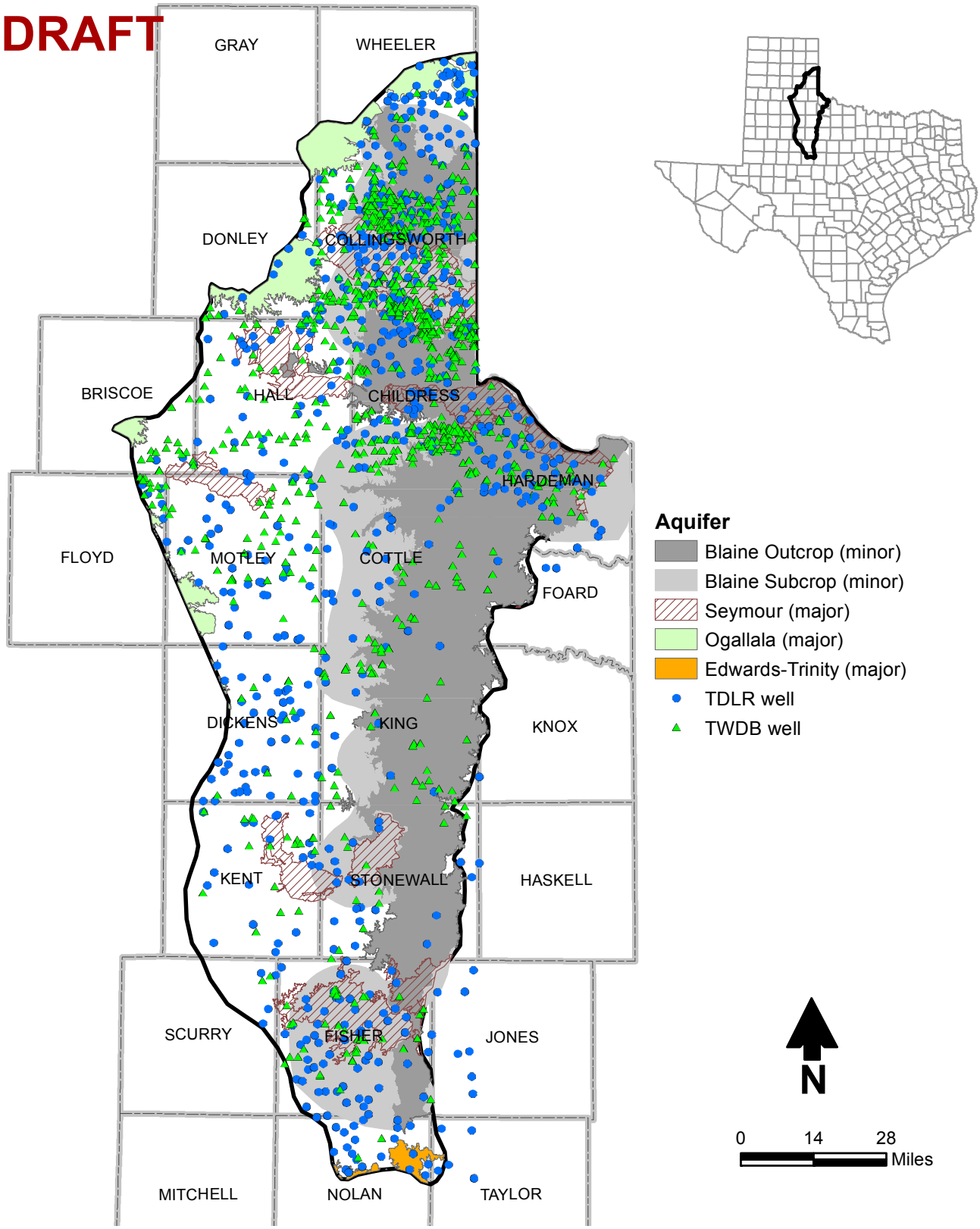


Figure 5-1. TWDB Designated Aquifer Extents

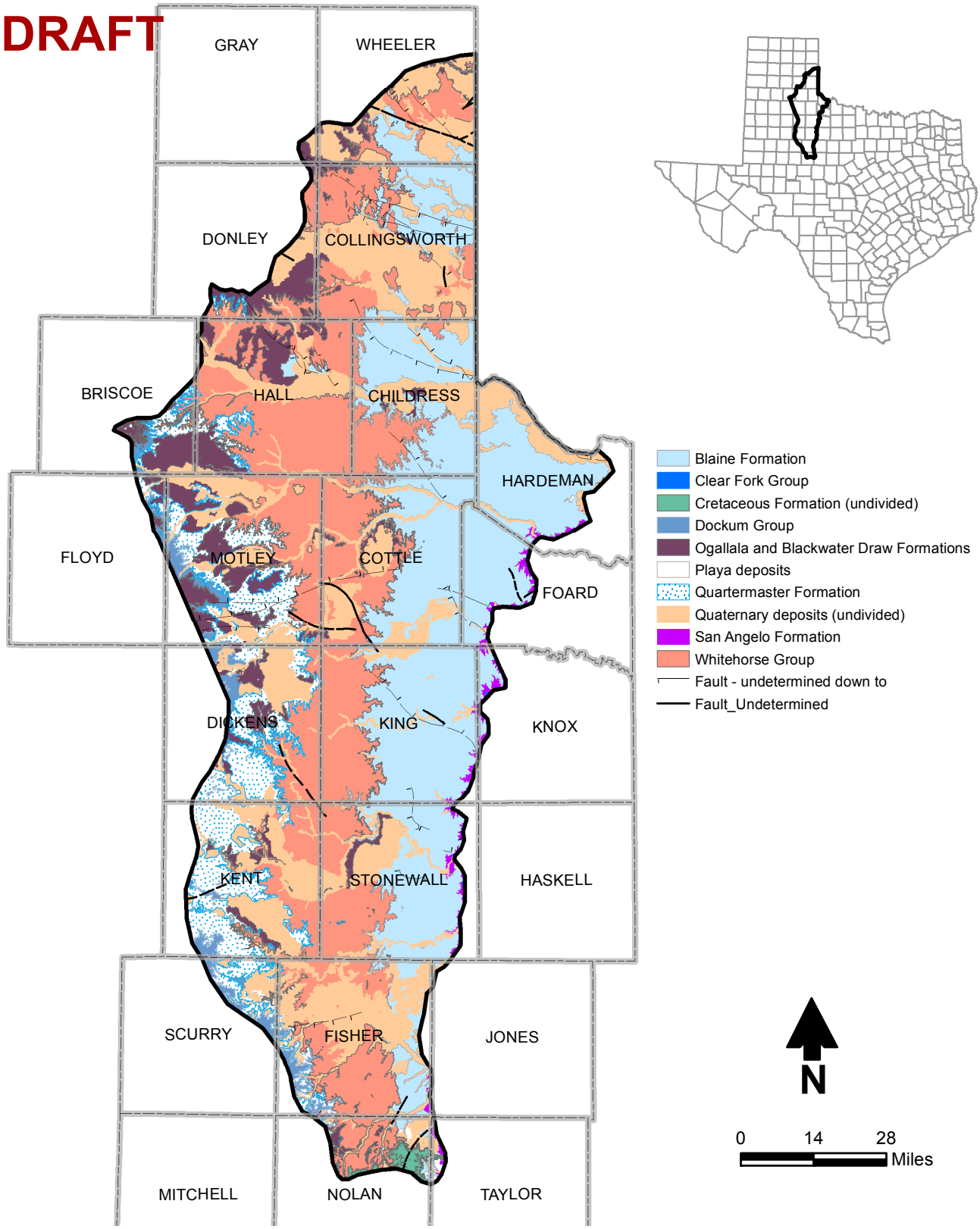
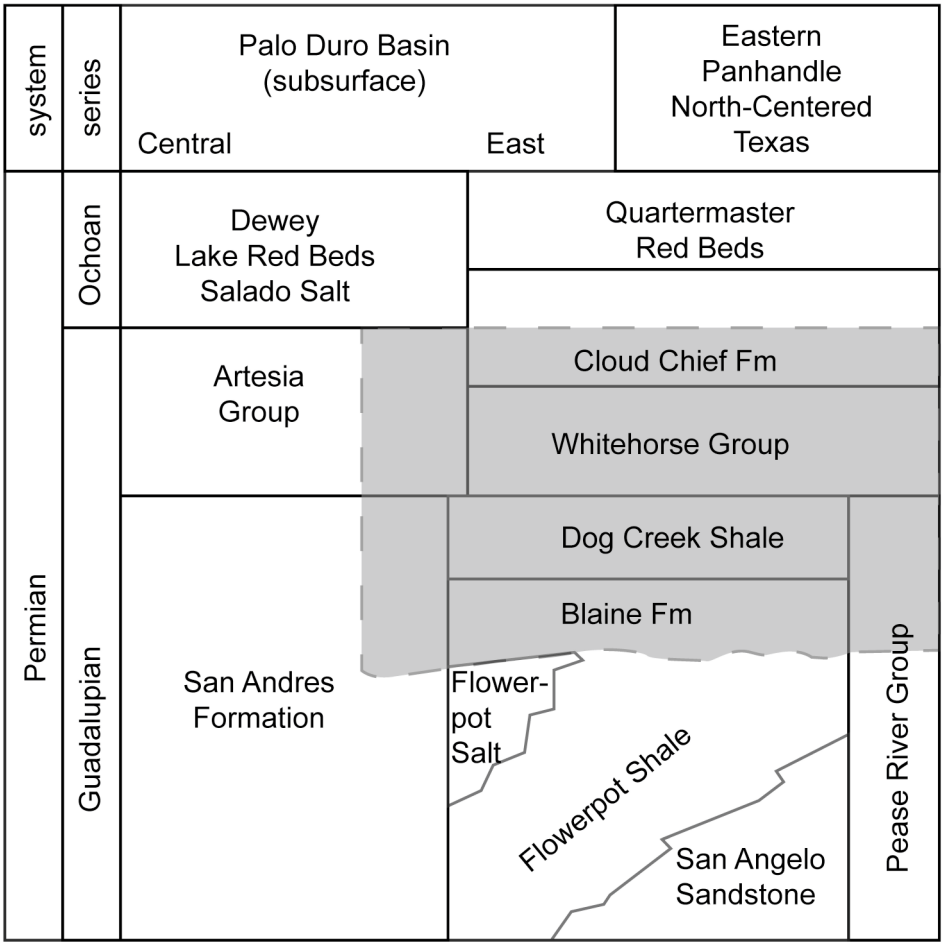


Figure 5-2. Surface Geology and Structure



Source: Modified from J.S. Johnson,1978; Presley, 1981; and Barnes, 1974

Blaine Aquifer System

Fig5-03_Stratigraphic_Column

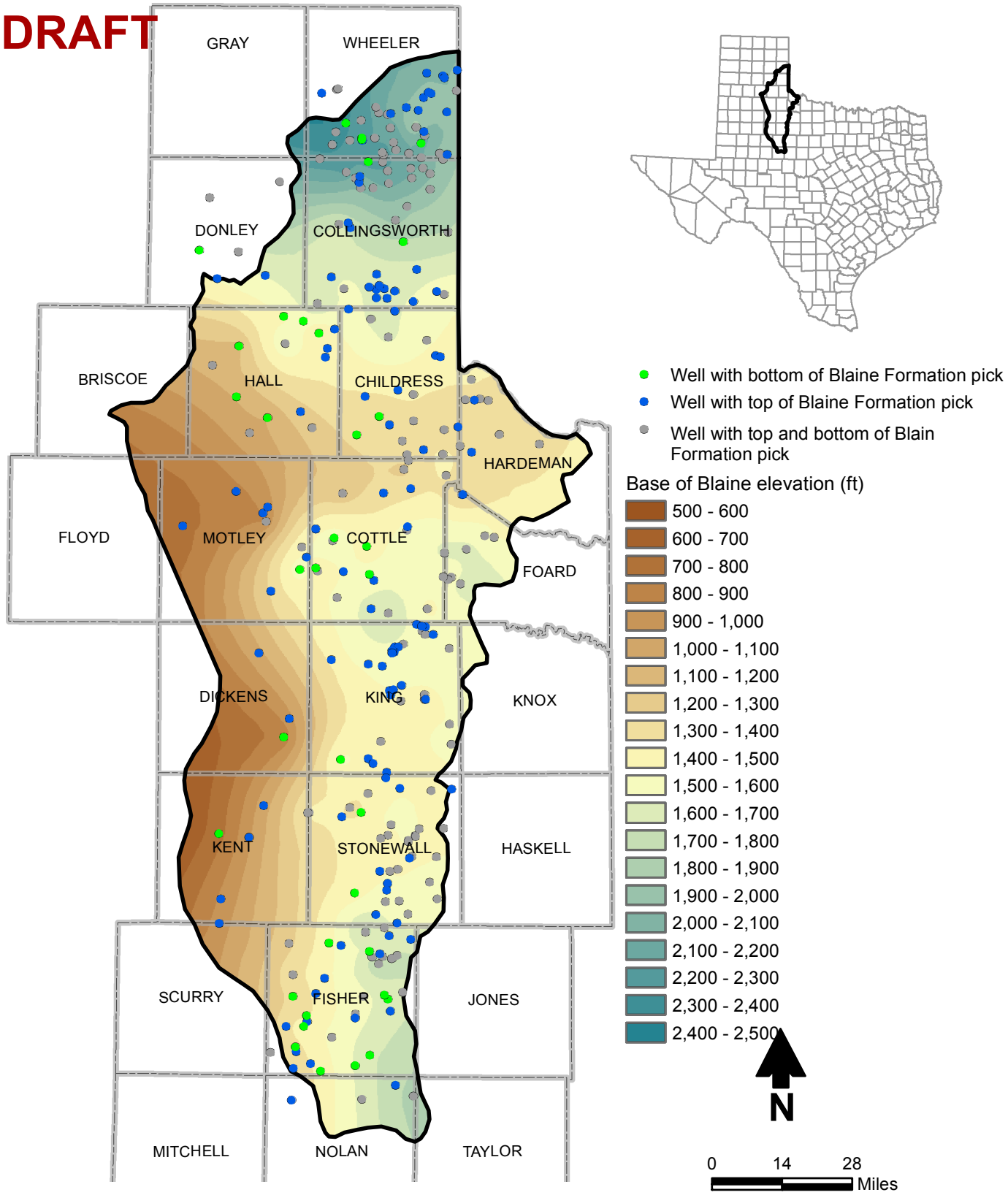


Figure 5-4. Base of Blaine Formation

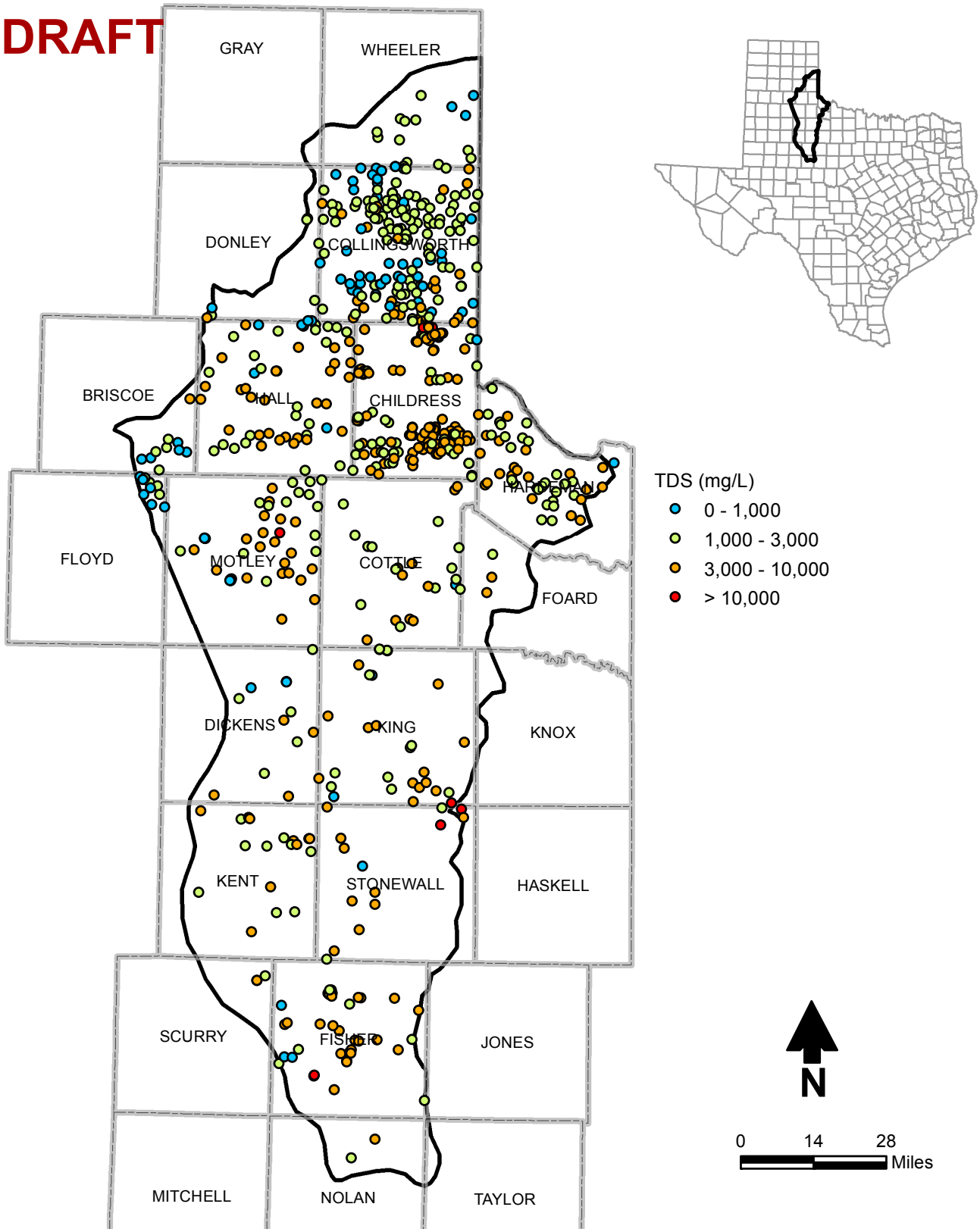


Figure 6-1. Water Quality from Water Wells

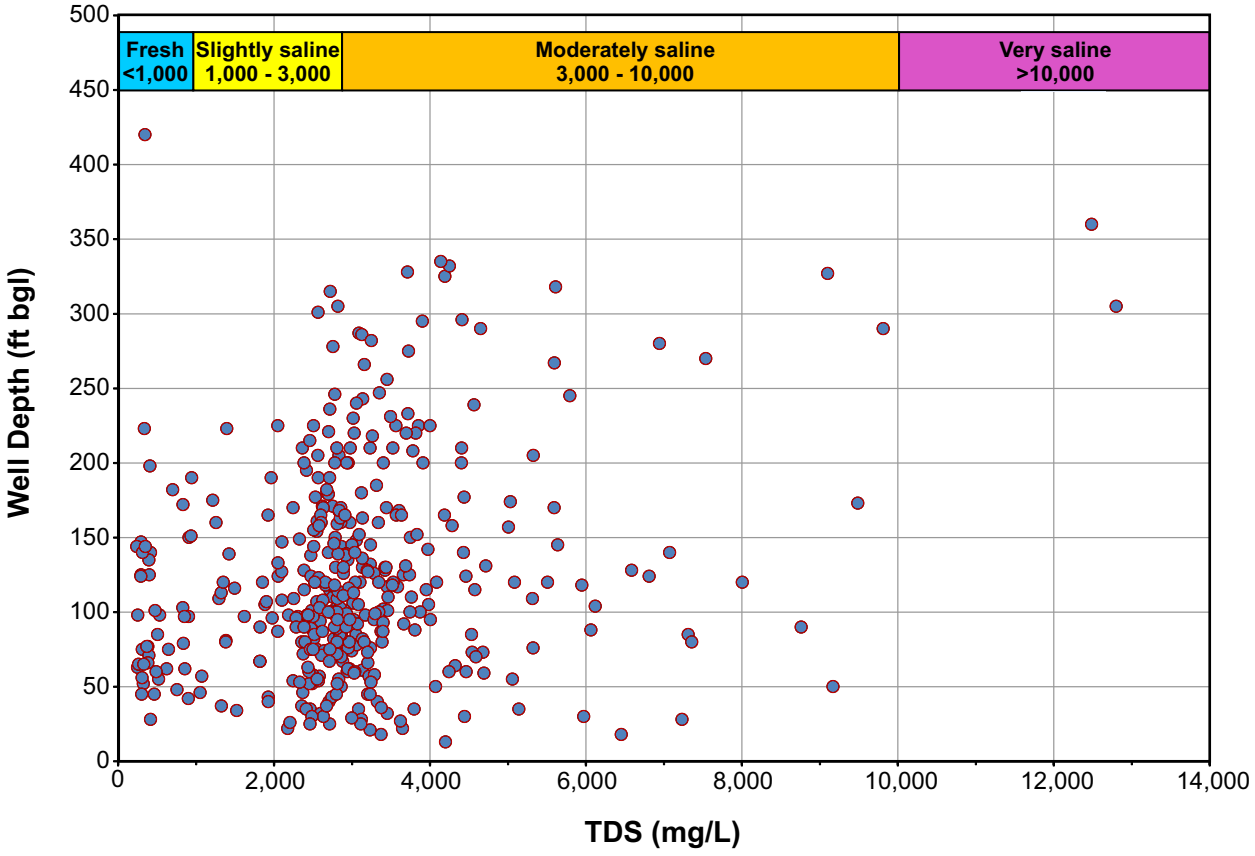


Fig06-2_Well_Depth_vs_TDS

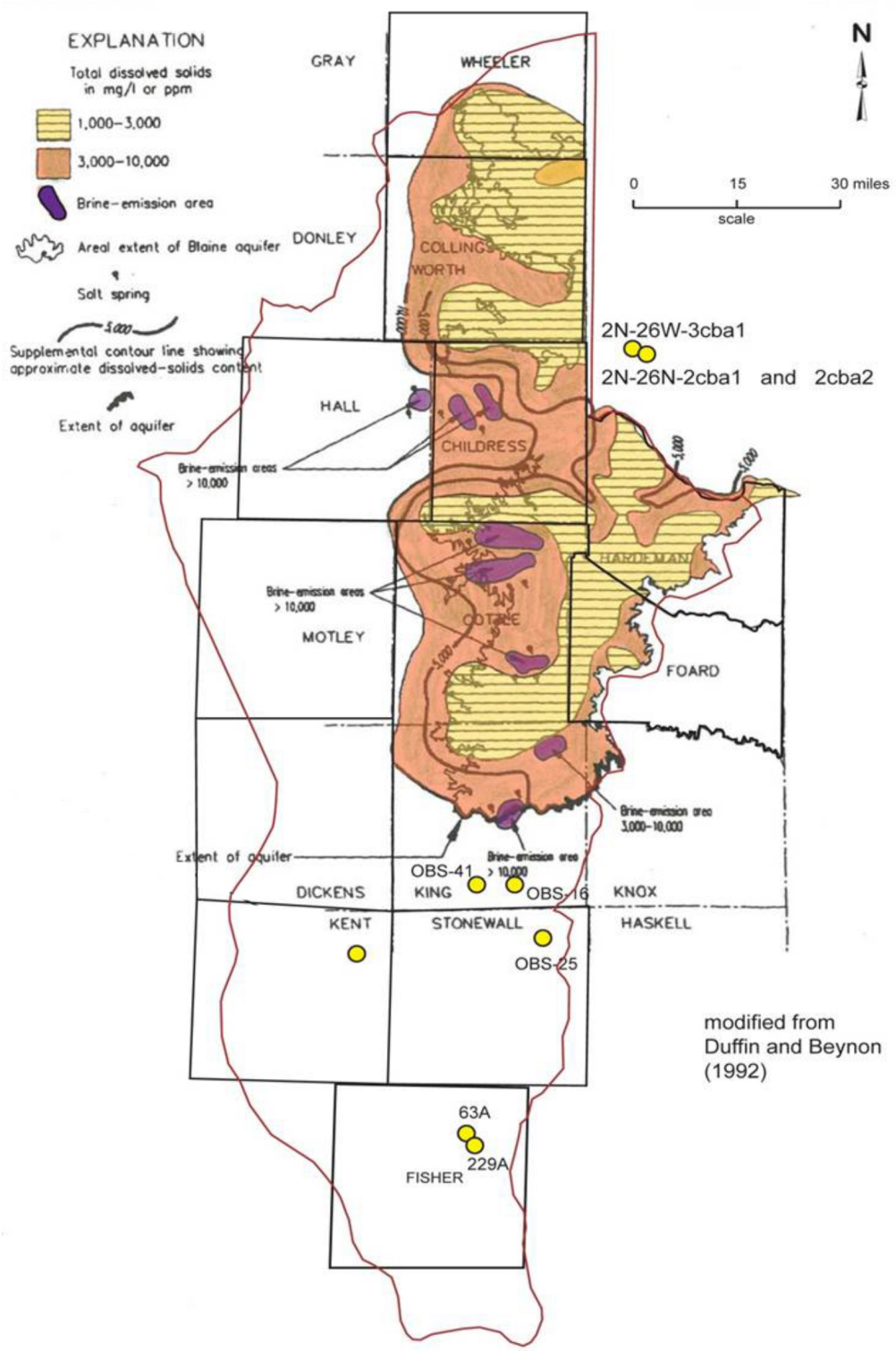


Fig06-3_Brine_Emission_Areas

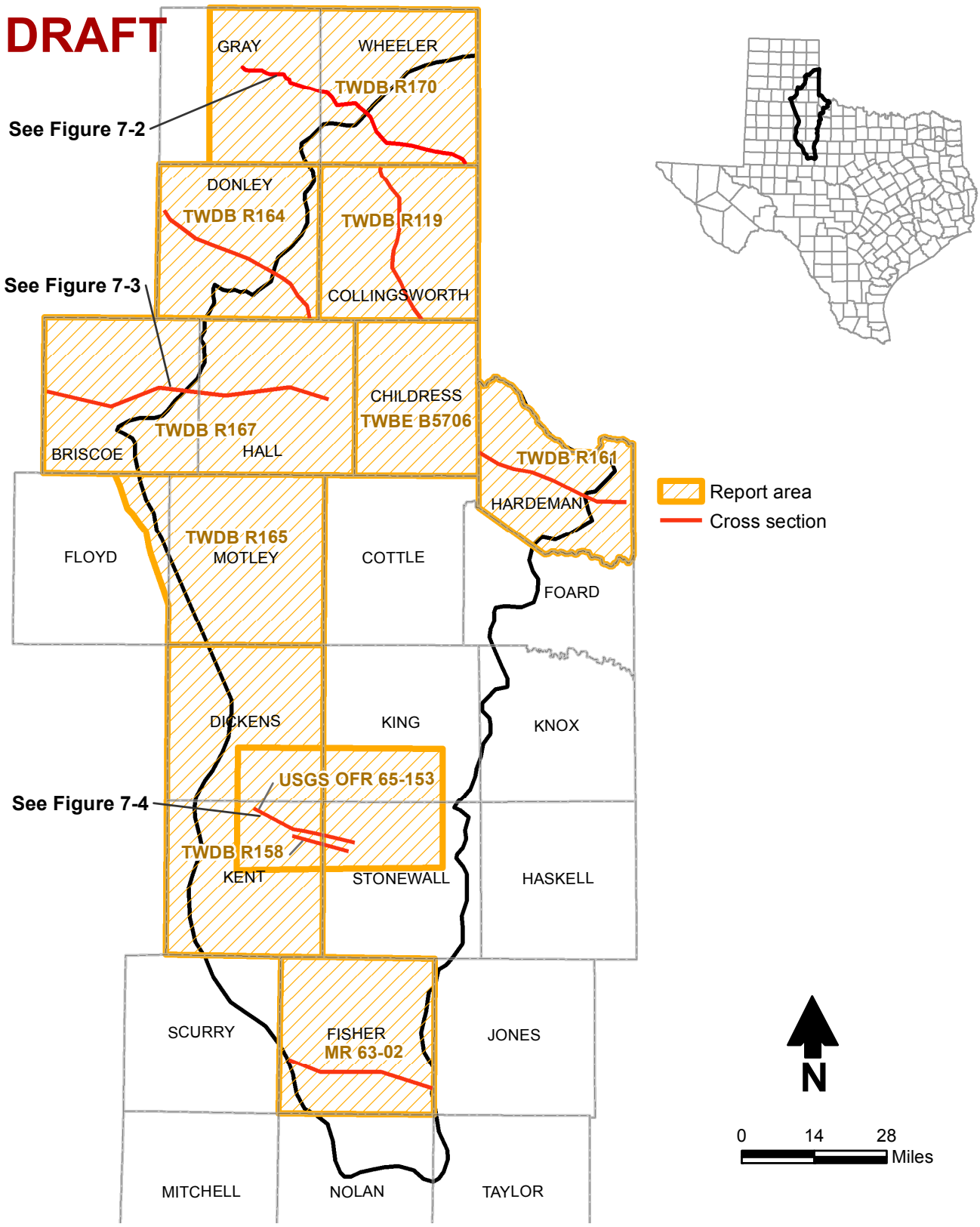
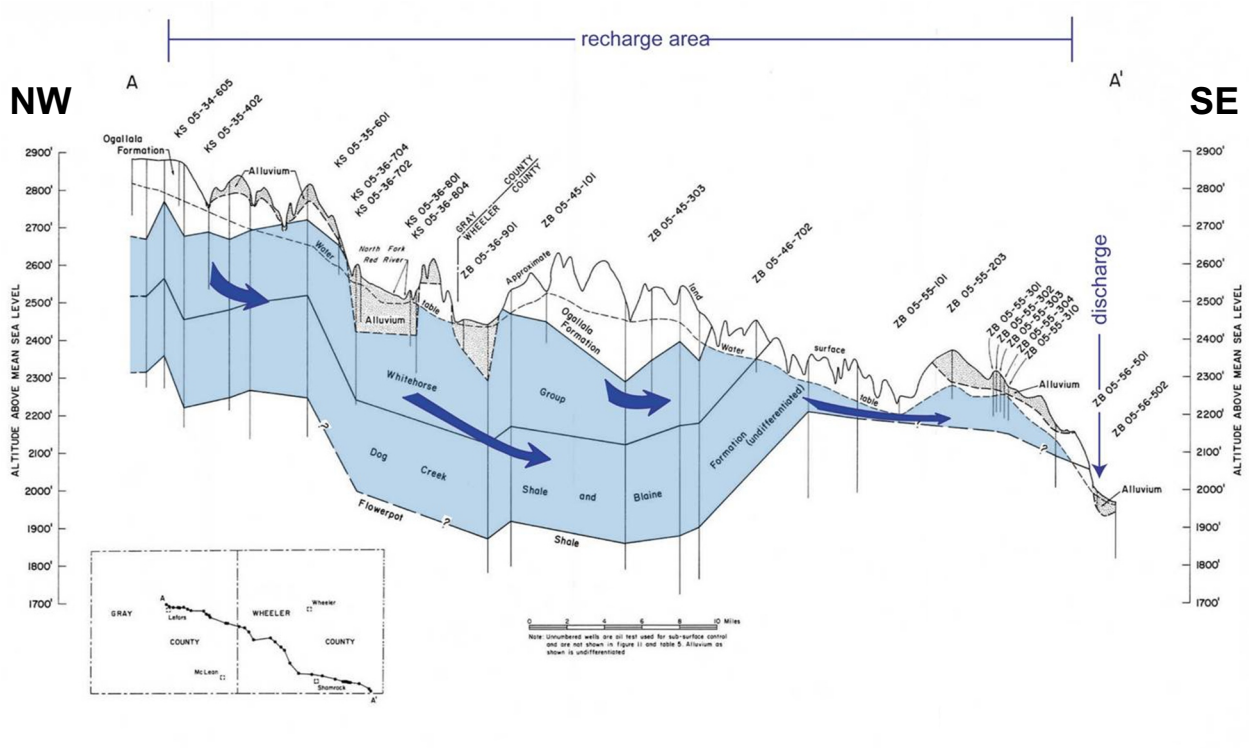
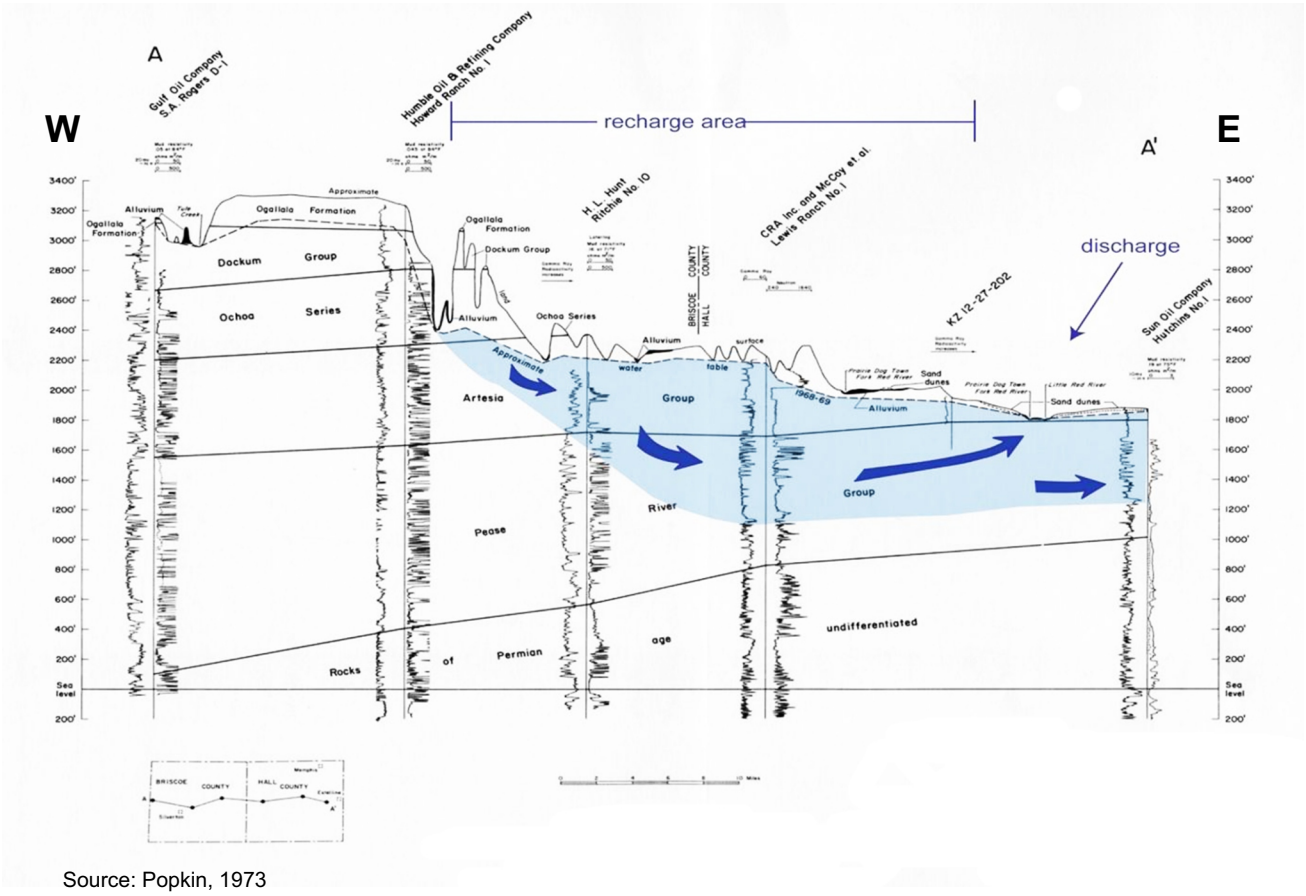


Figure 7-1. Historical Reports and Data Sources with Cross Section Locations



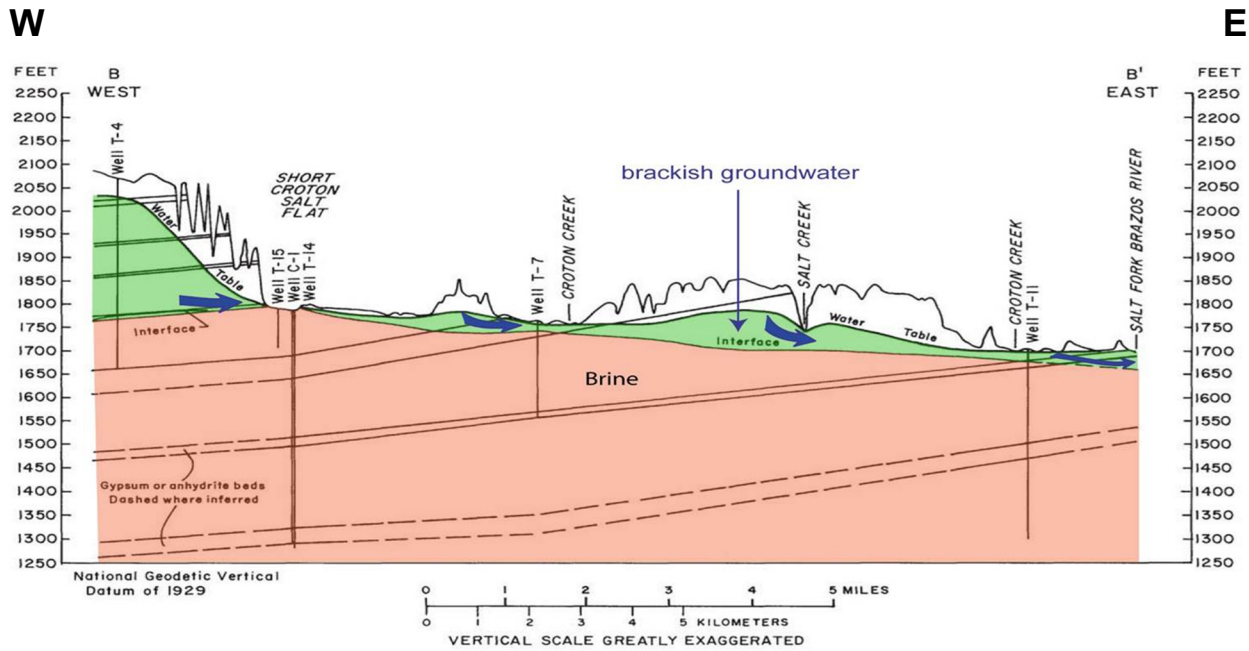
Source: Maderak, 1973

Fig07-2_NW-SE_Hydrogeo_Cross_Sec_Gray_Wheeler_Co_TX



Source: Popkin, 1973

Fig07-3_W-E_Hydrogeo_Cross_Sec_Briscoe_Hall_Co_TX



Source: Modified from Stevens and Hardt, 1965

Fig07-4_W-E_Hydrogeo_Cross_Sec_Croton_Creek_TX

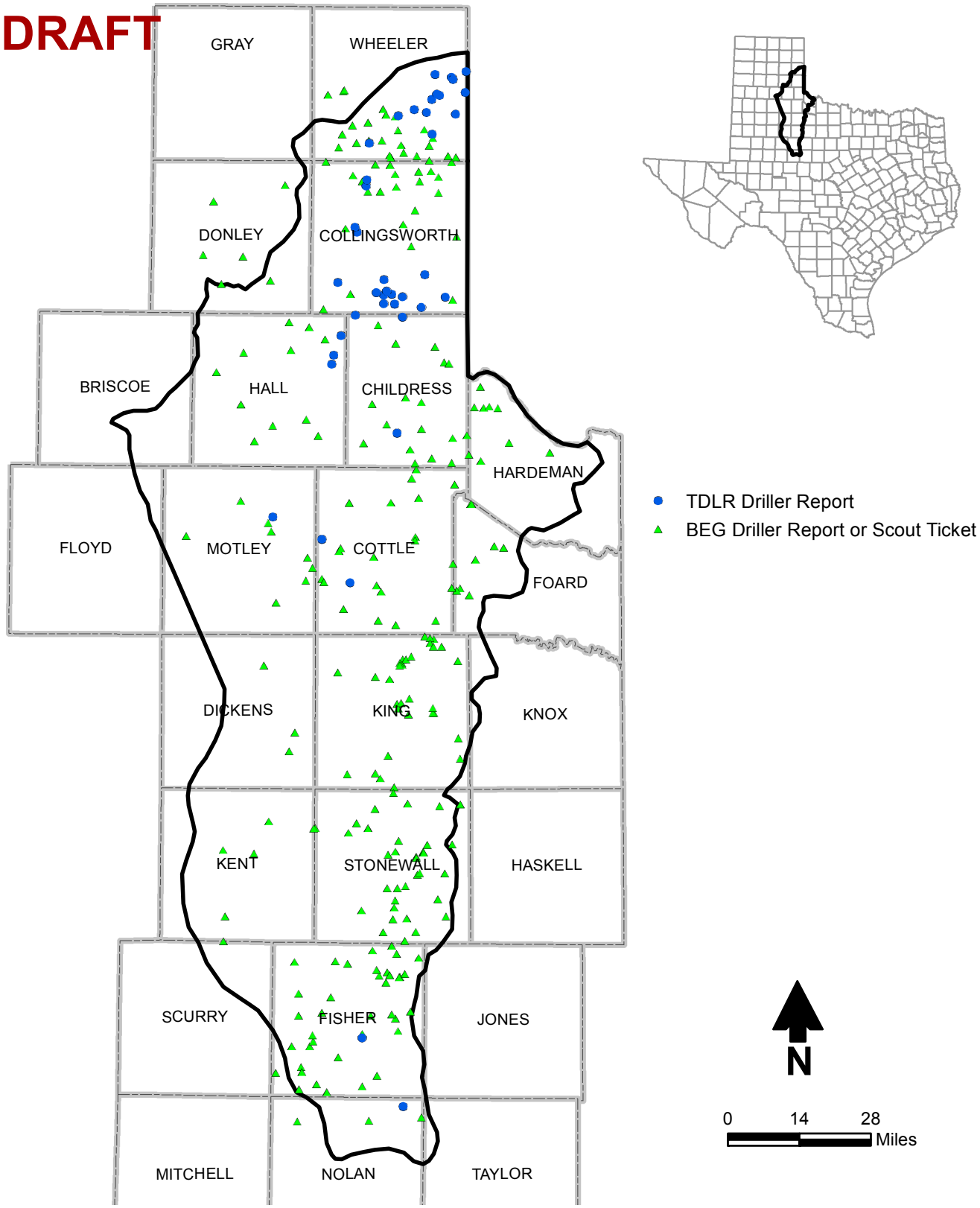


Figure 8-1. BEG and TDLR Wells Used for Stratigraphic Analysis

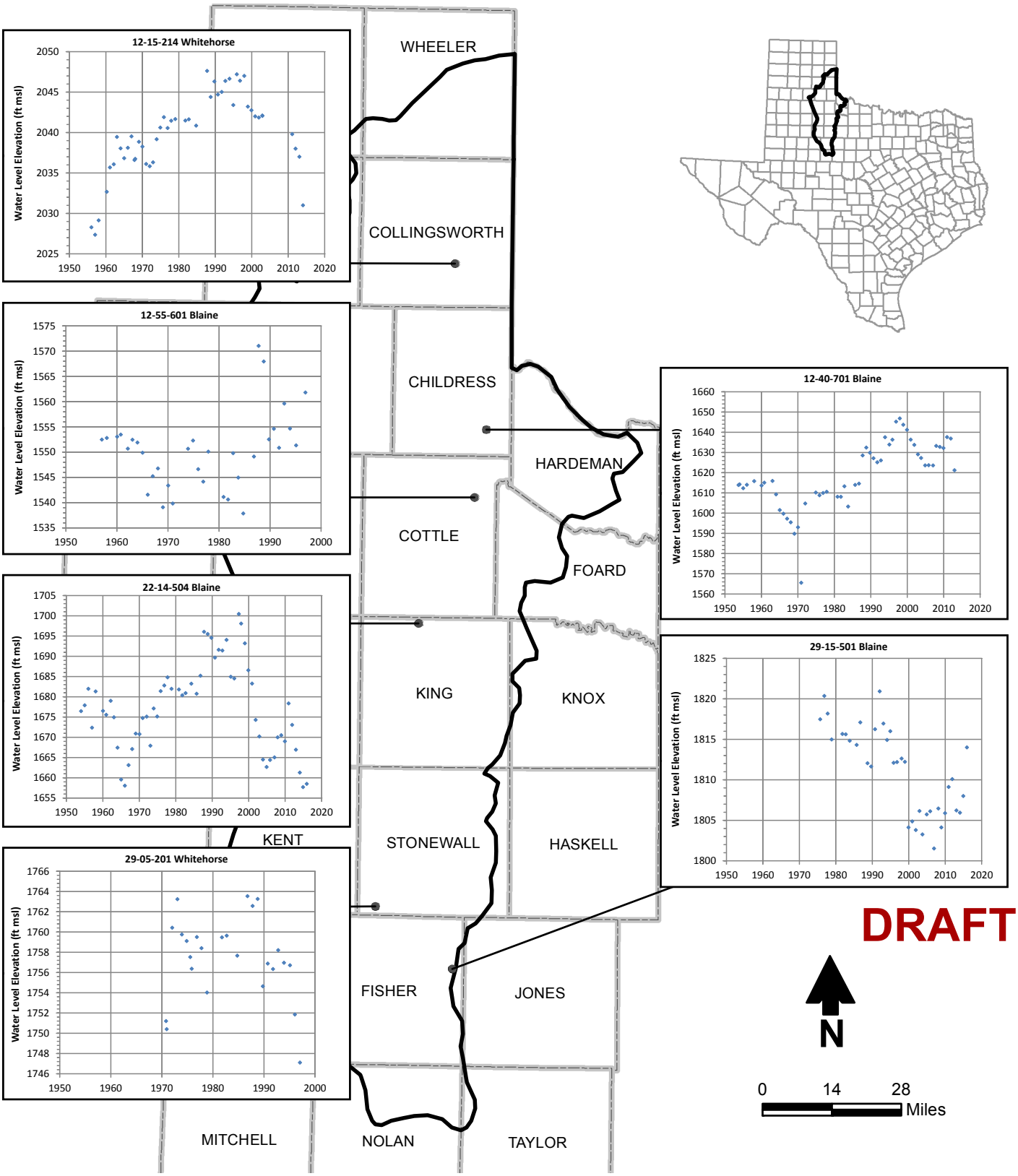


Figure 8-2. Hydrographs

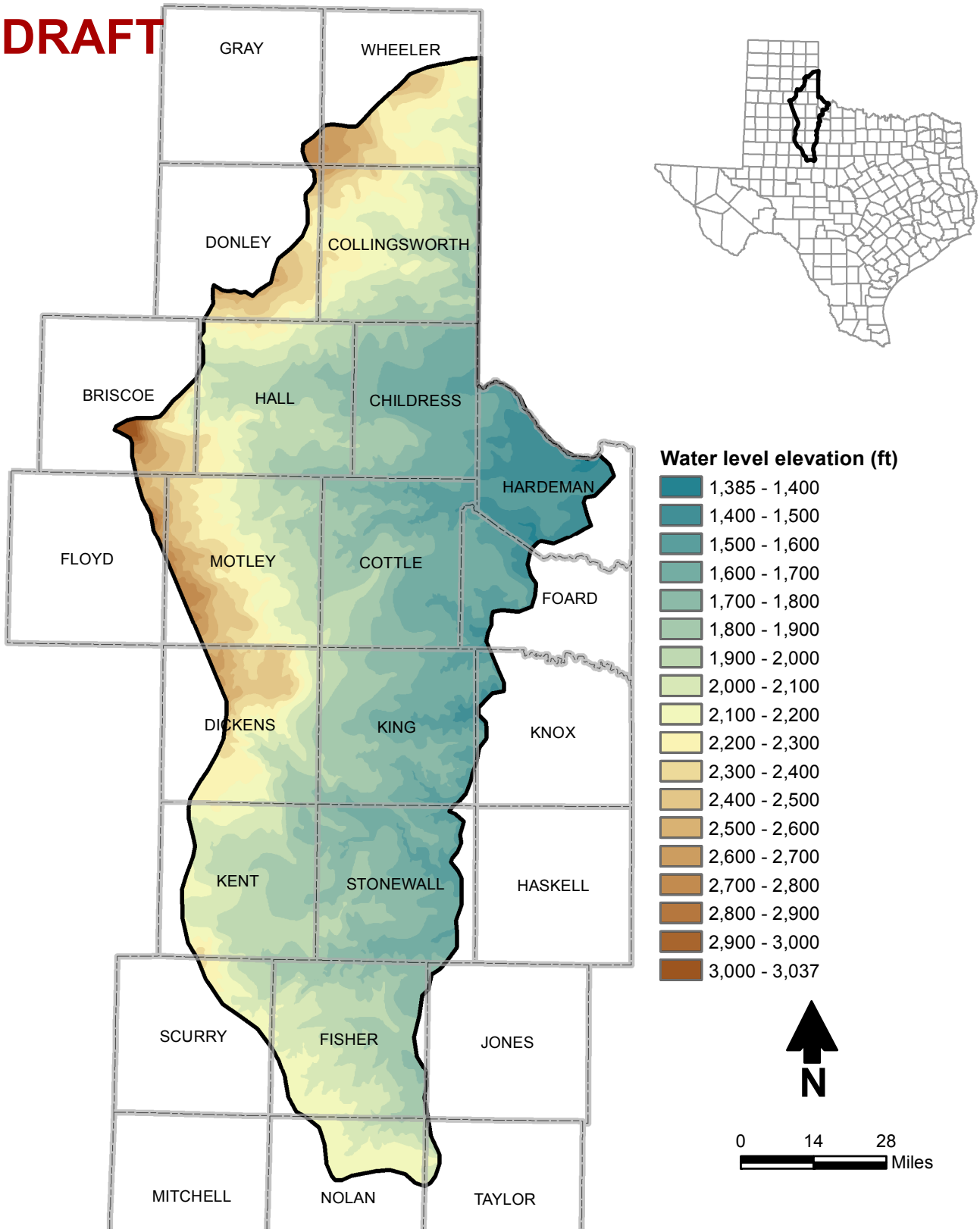


Figure 8-3. Water Level Map

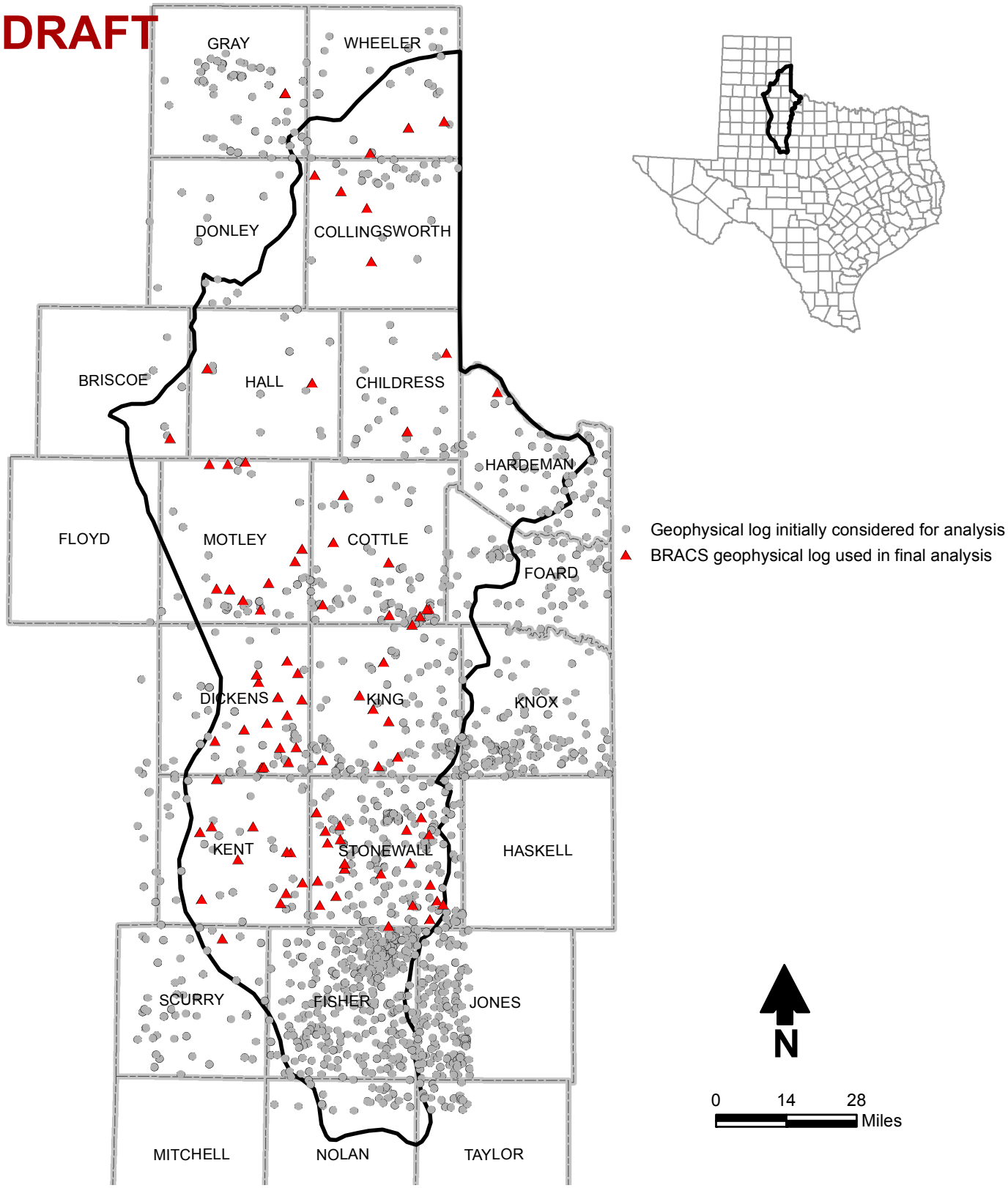


Figure 8-4. Geophysical Logs

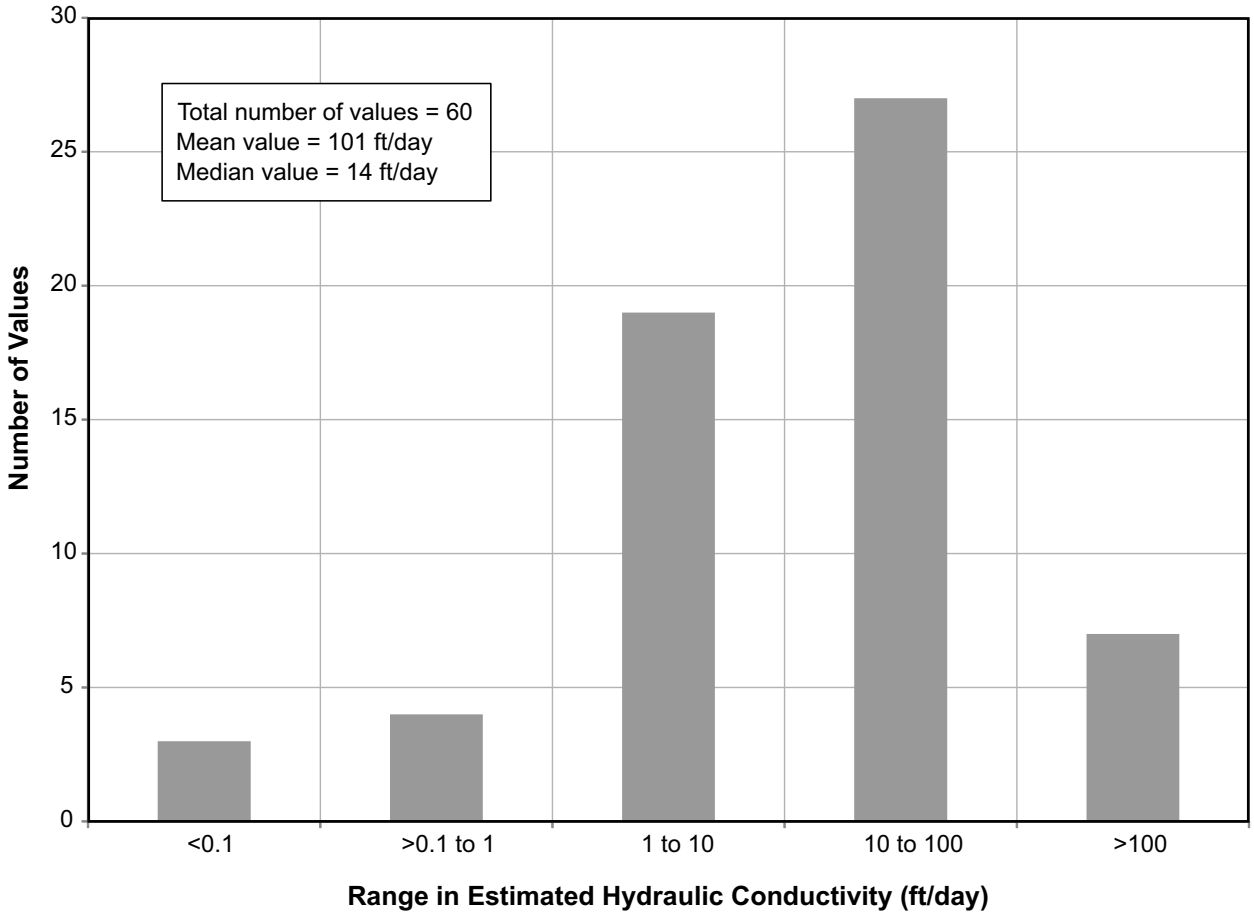


Fig09-1 Hydraulic Conductivity Estimated from Specific Capacity Data

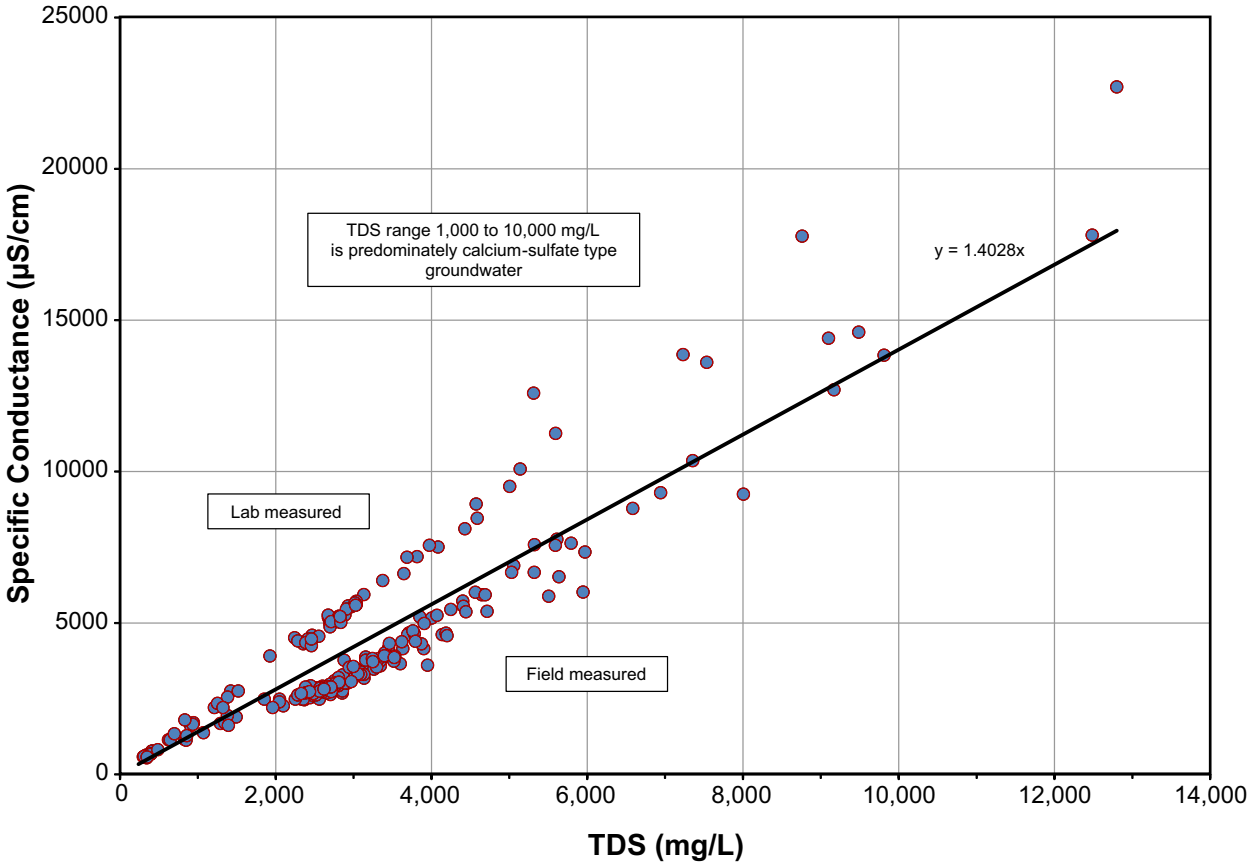


Fig10-1_SC_vs_TDS

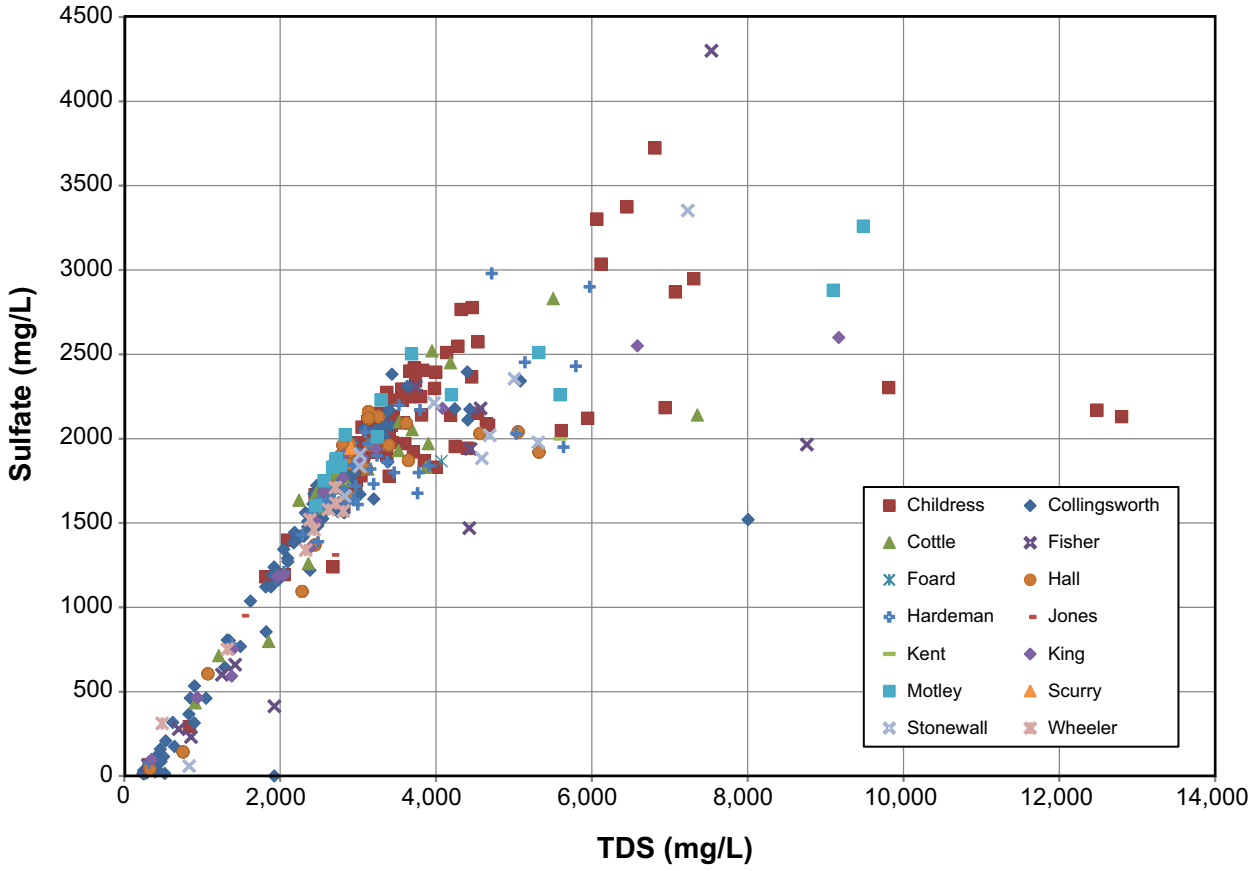


Fig10-2_Sulfate_vs_TDS

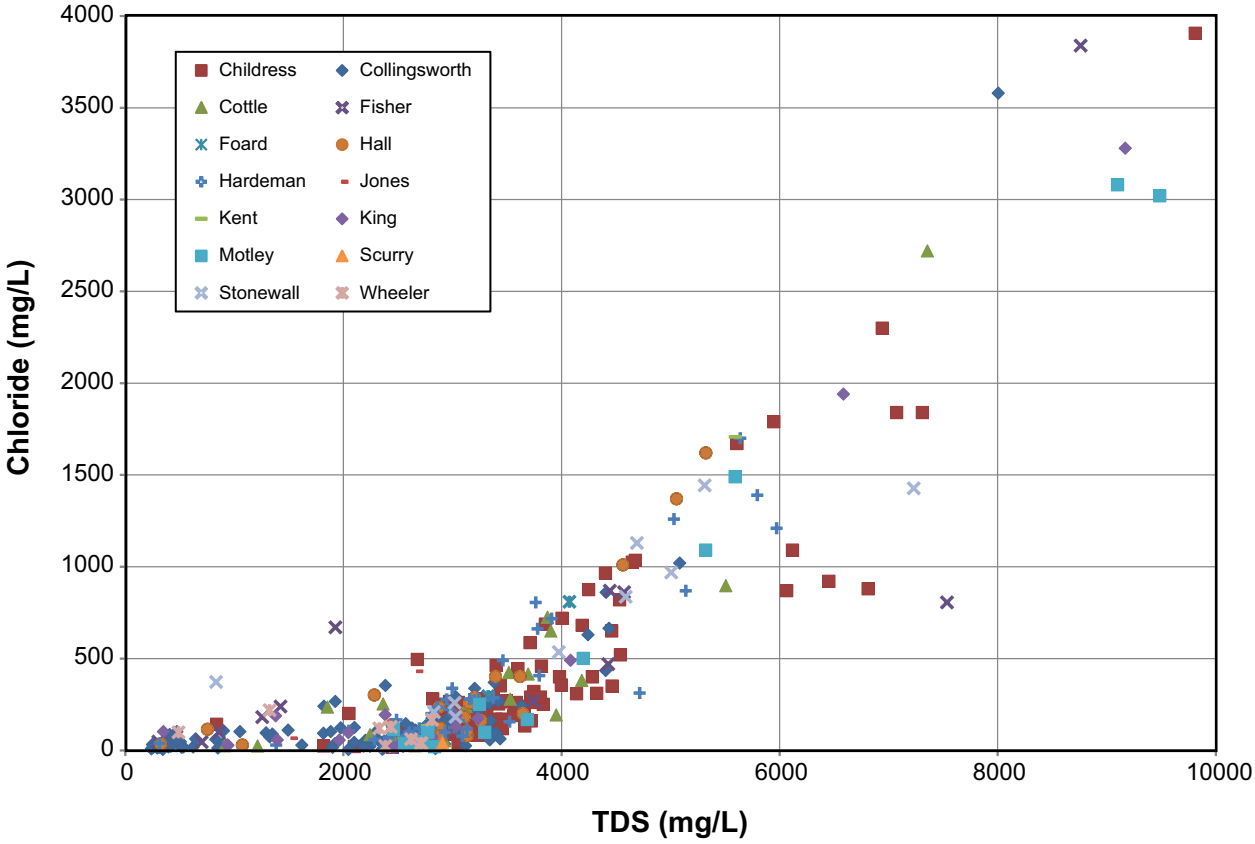


Fig10-3_Chloride_vs_TDS

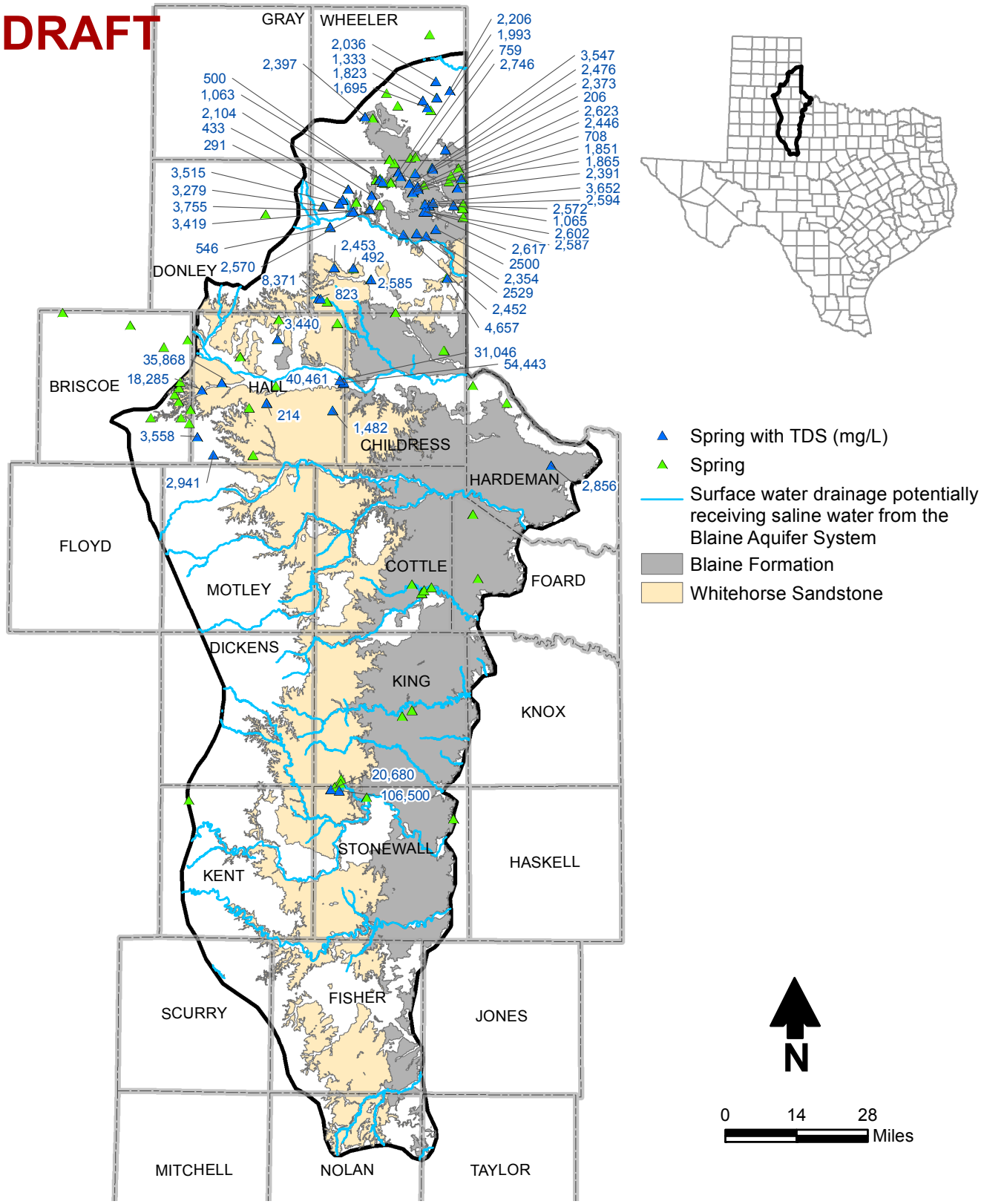


Figure 10-4. Spring Water Quality

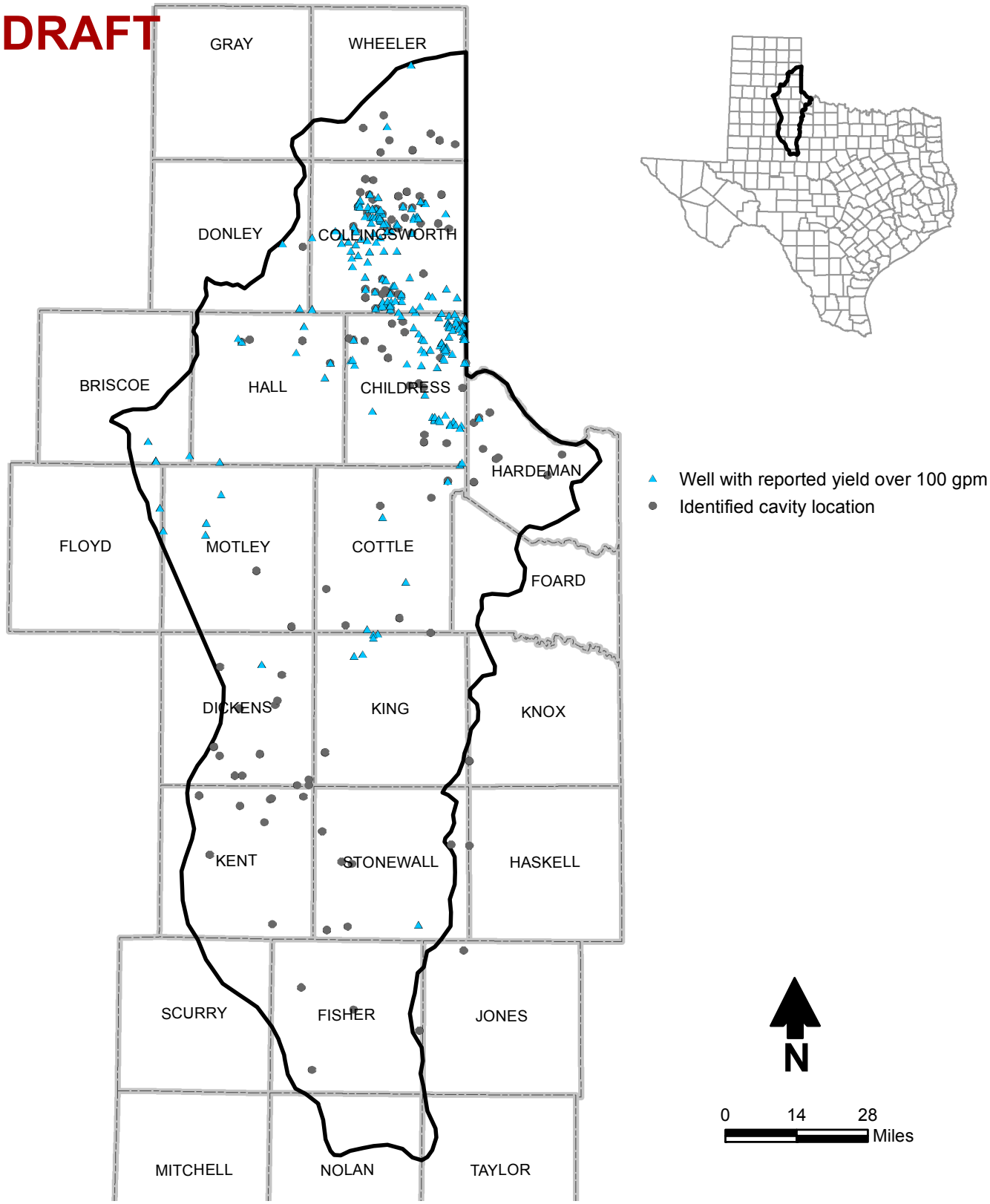


Figure 11-1. High-Yield Wells and Identified Cavity Locations

Modified from Google Earth, 2013

Fig11-2_Hall_Co_Aerial_with_Sinkhole

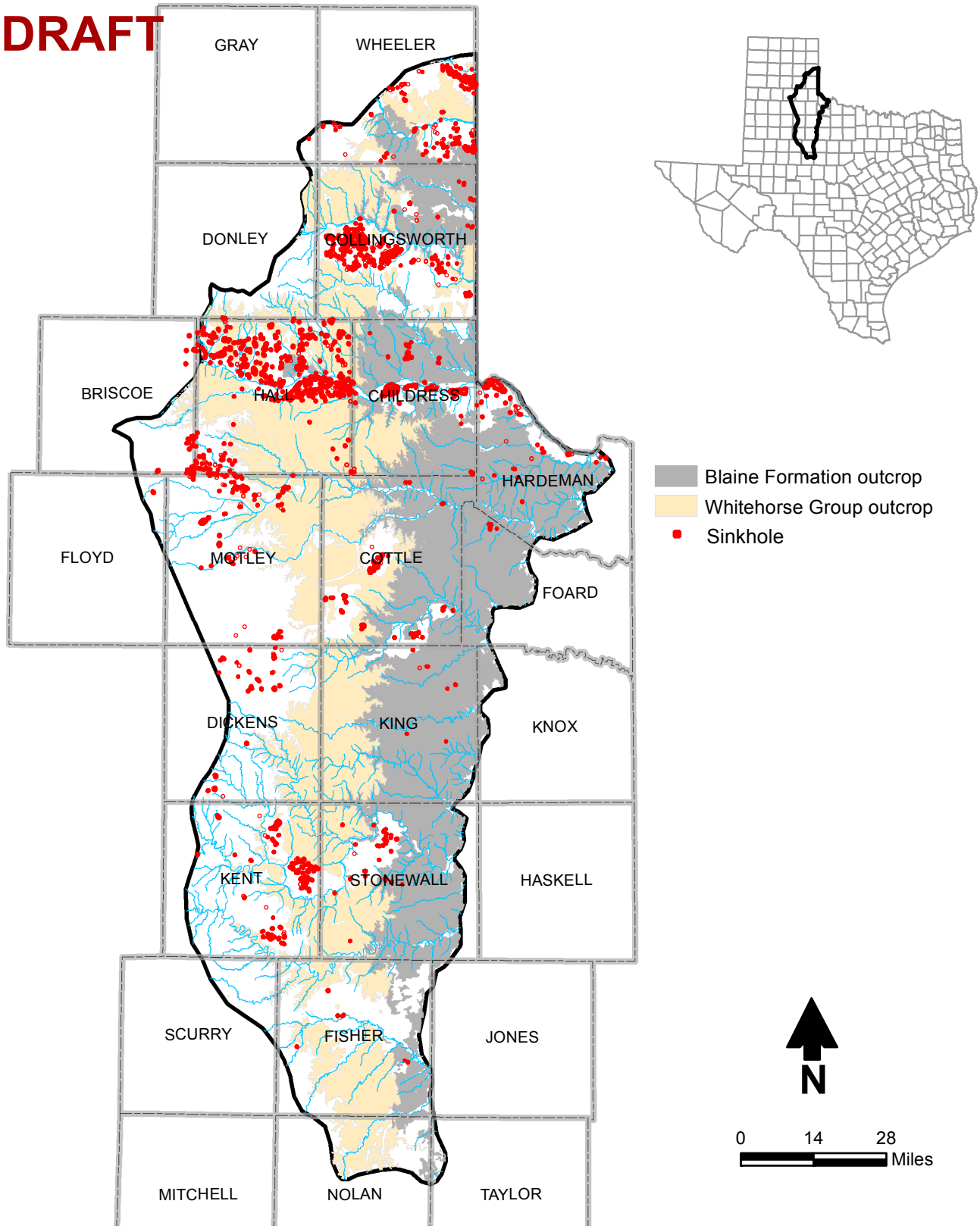


Figure 11-3 Blaine Aquifer System Karst Features

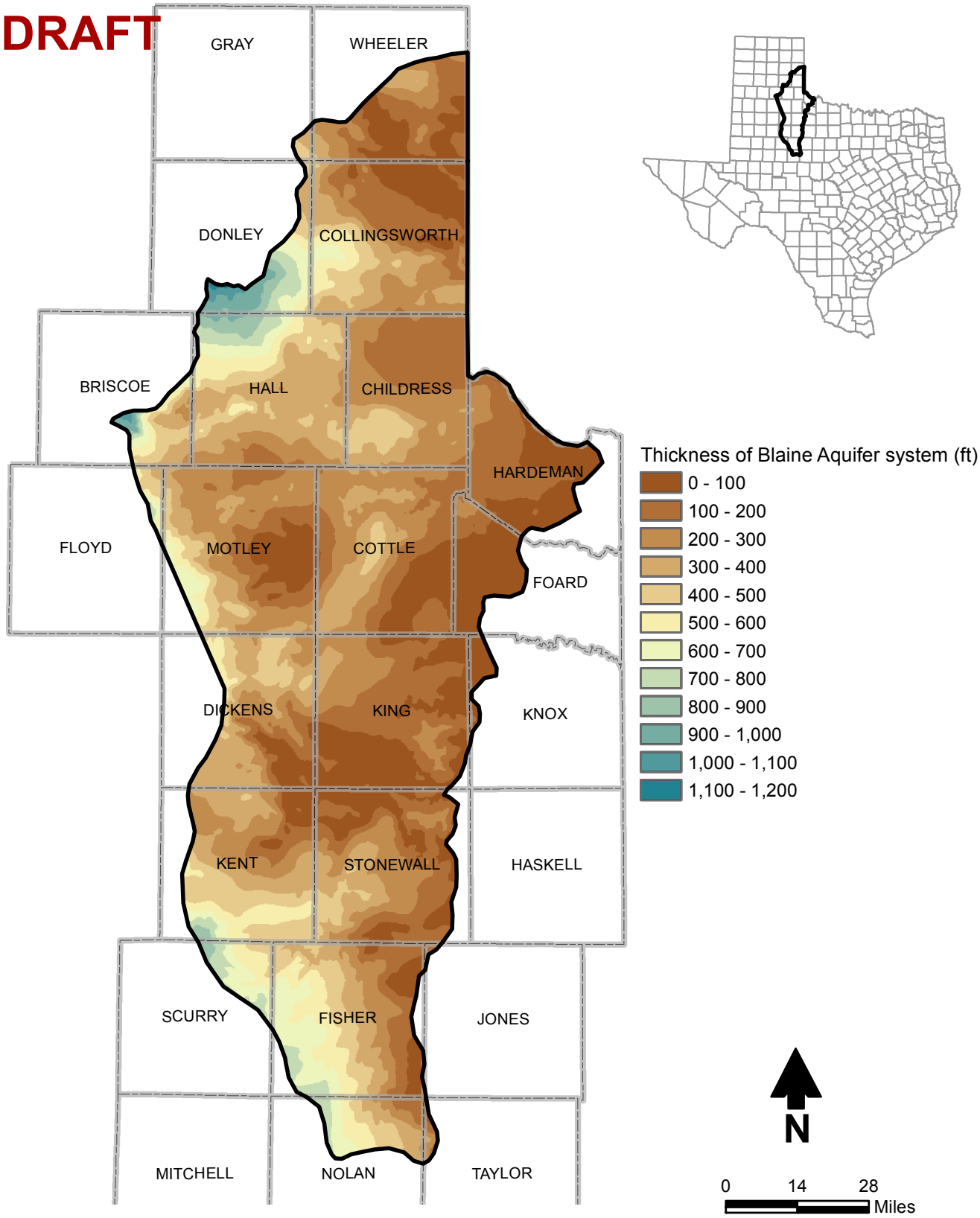


Figure 12-1. Thickness of Blaine Aquifer System

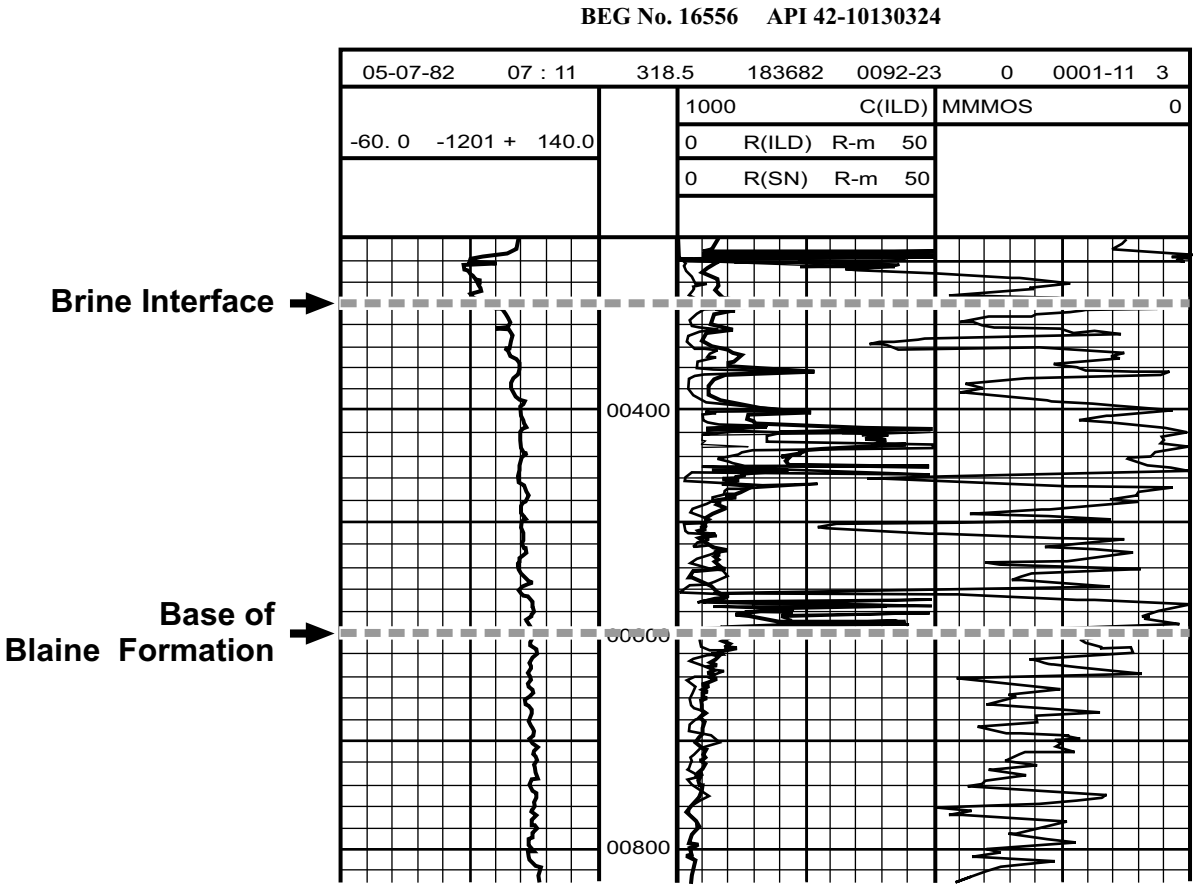


Fig13-1_Brine_Interface_Gamma_Curve

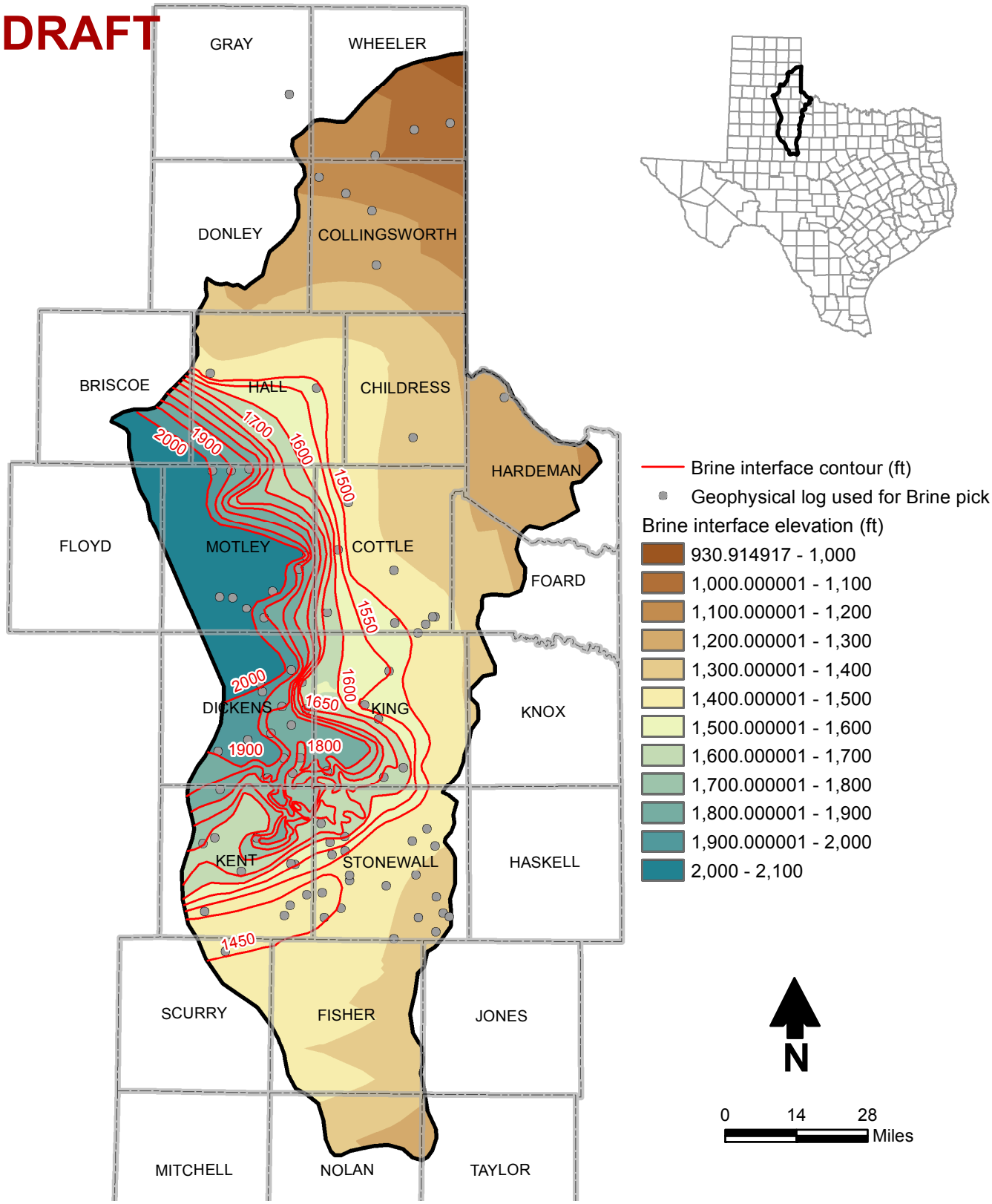


Figure 13-2. Brine Interface Contoured Where It Occurs Above the Base of the Blaine Formation

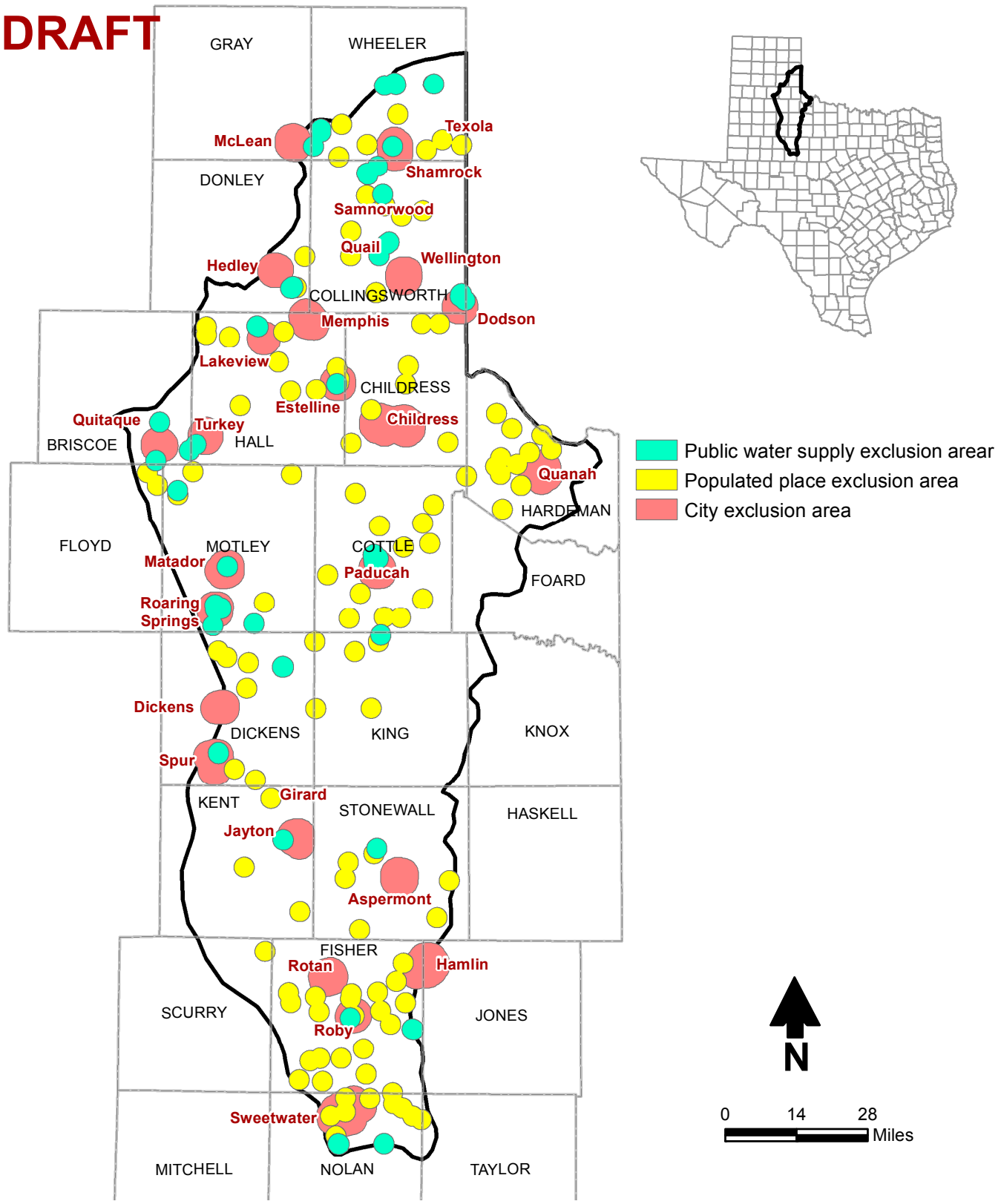


Figure 14-1. Exclusion areas for public supply wells, cities and populated places

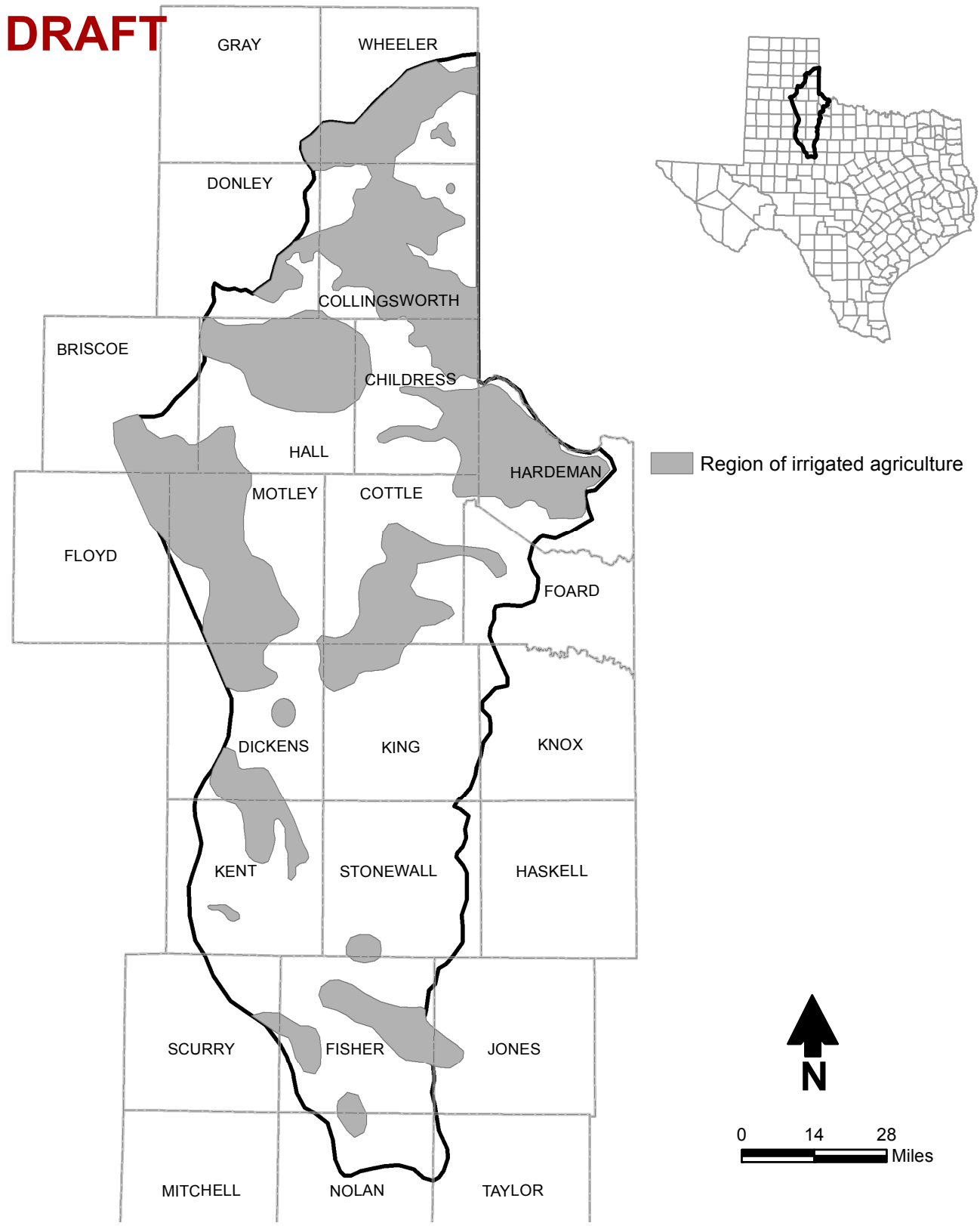


Figure 14-2. Exclusion areas for regions of irrigated agriculture

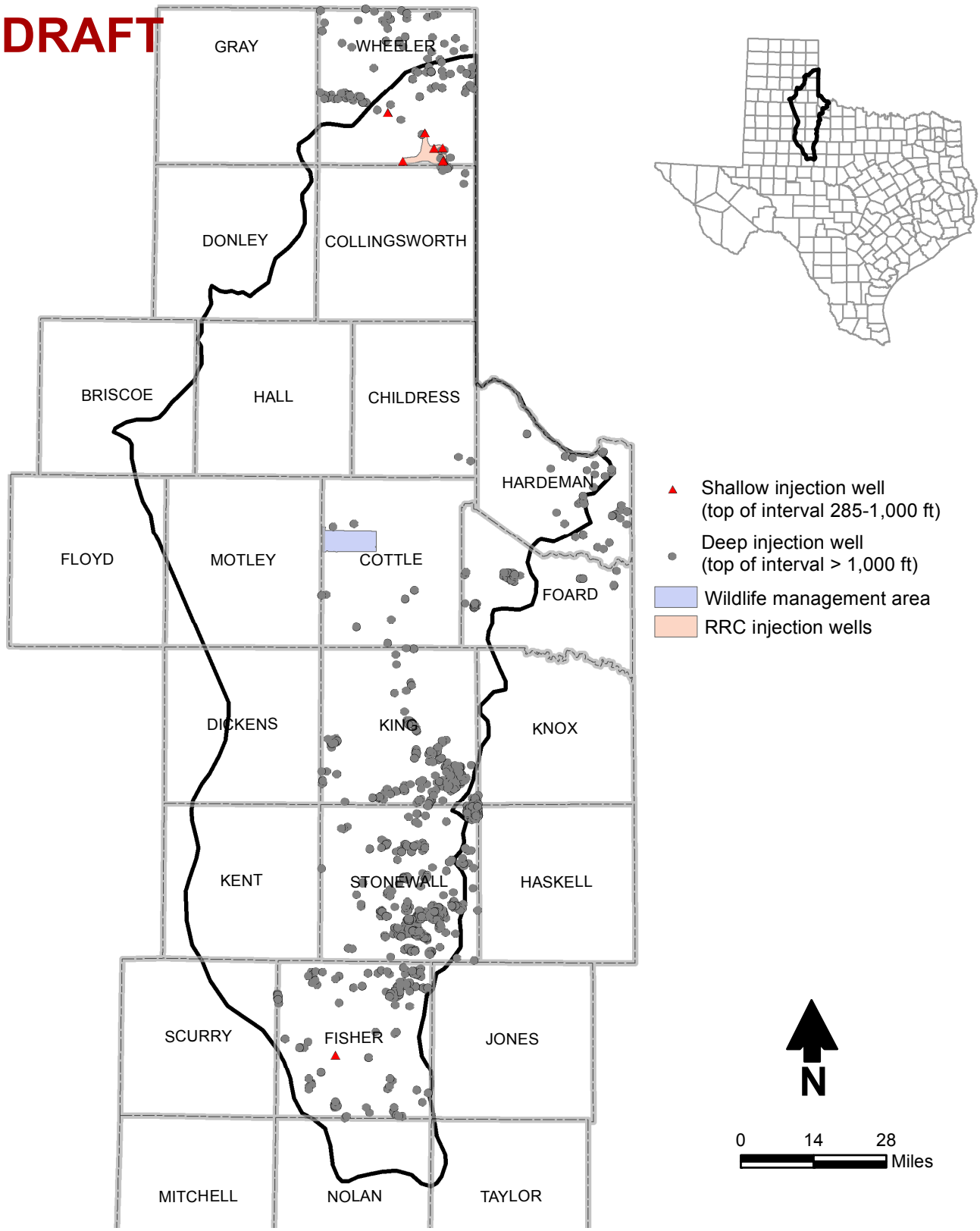


Figure 14-3. Exclusion areas for injection wells and wildlife management areas

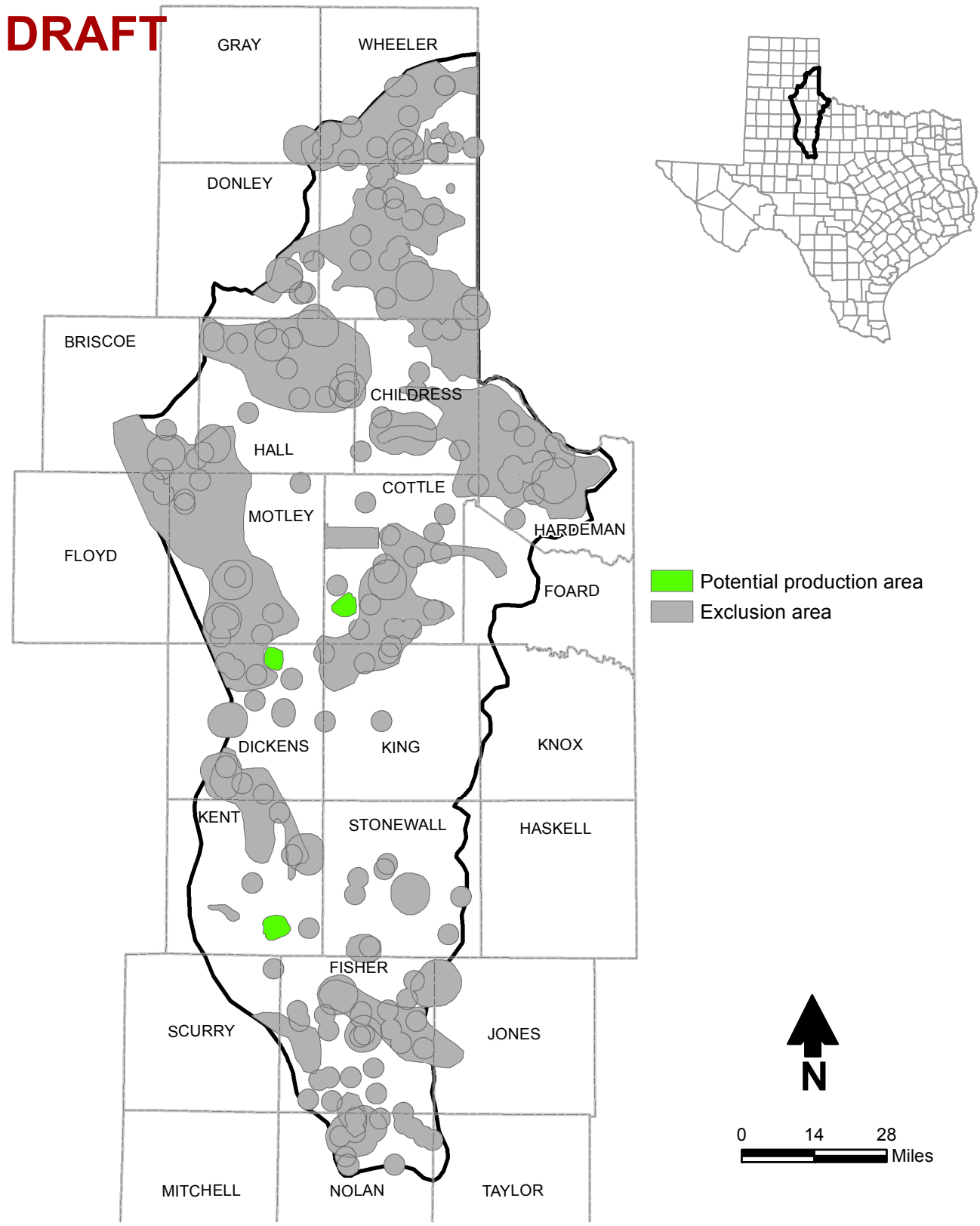


Figure 14-4. Combined Extent of All Identified Exclusion Areas, and Final Potential Production Areas

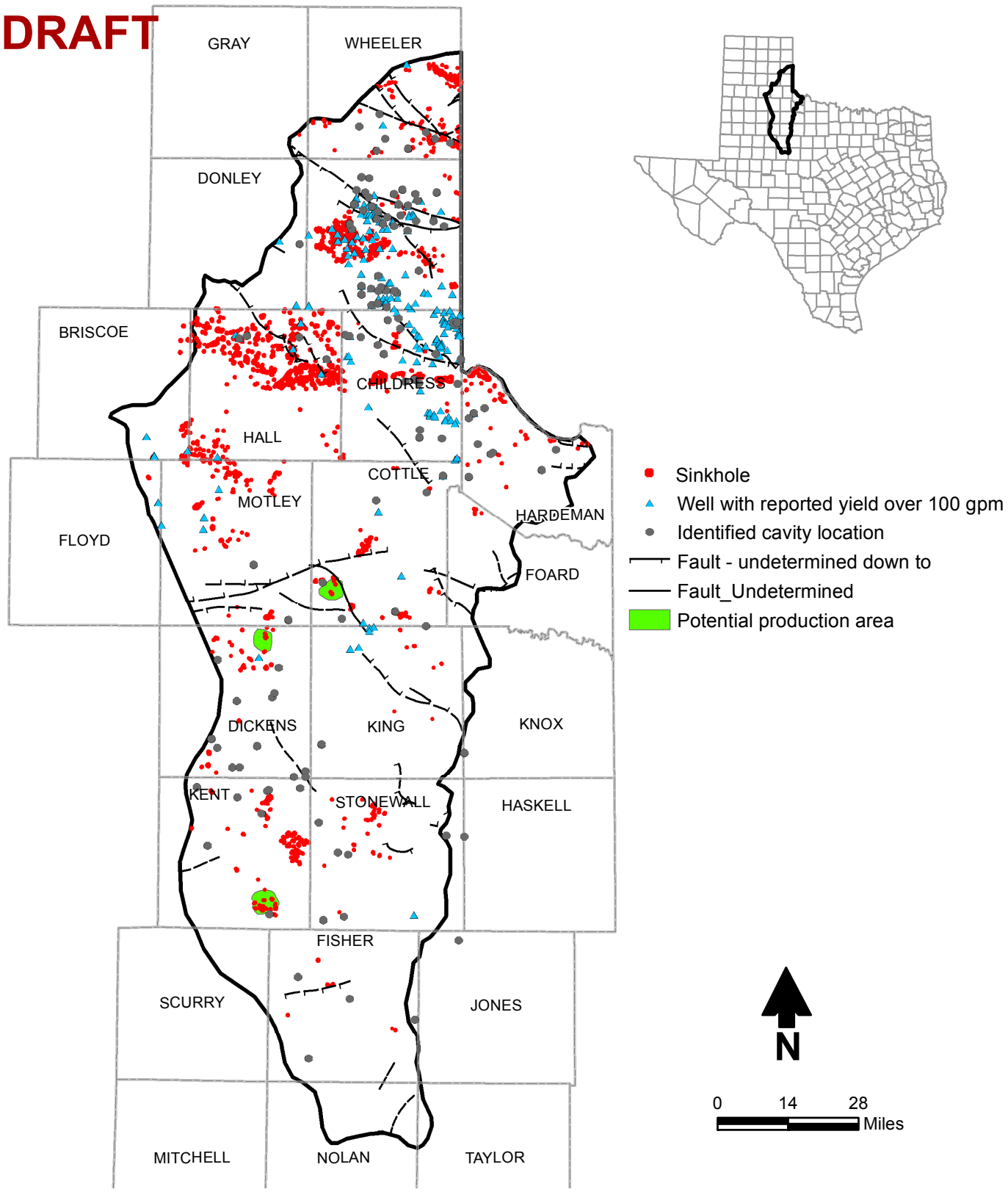


Figure 14-5. Final Potential Production Areas With Indicators Used for Aquifer Yield

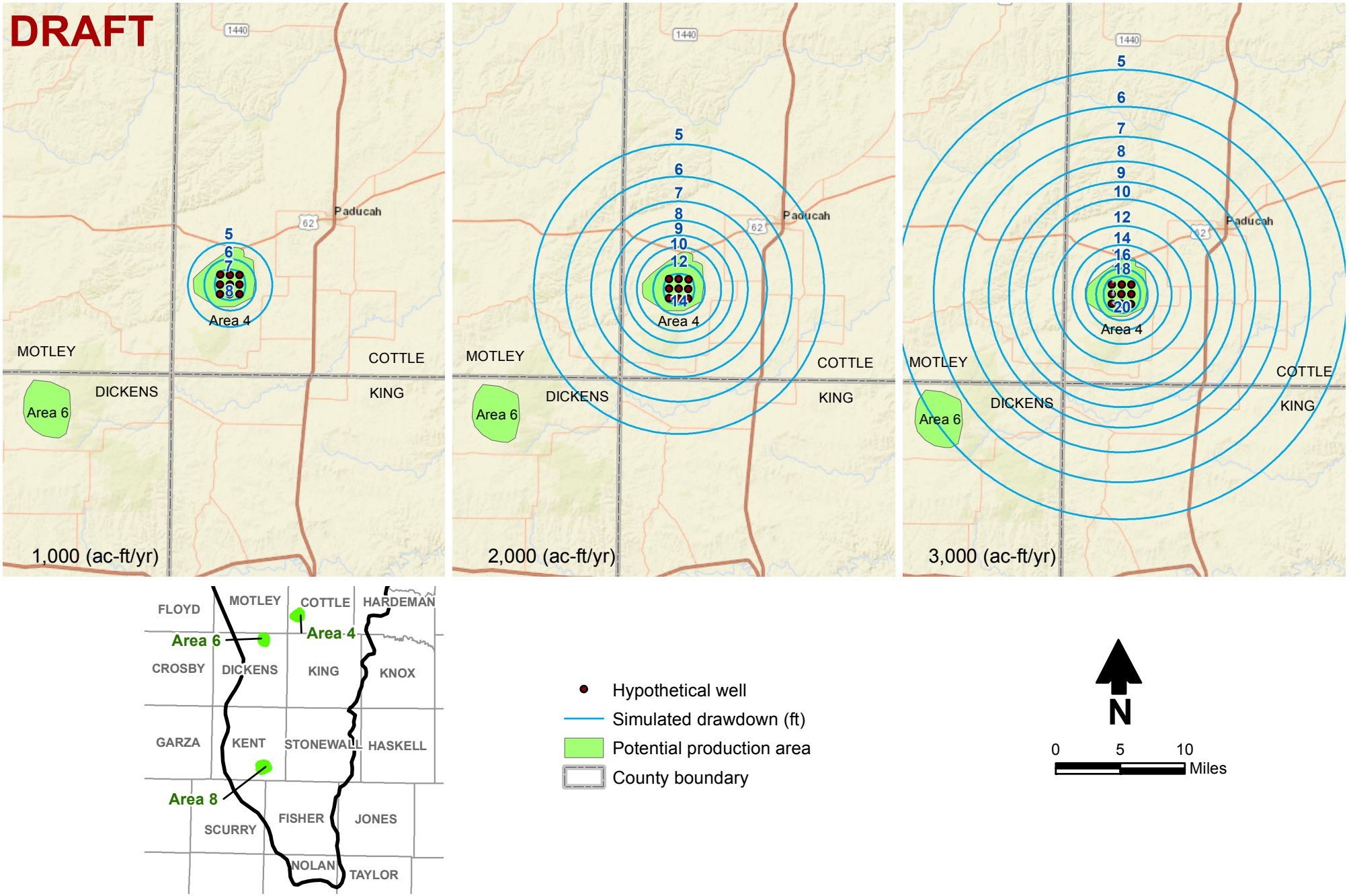


Figure 14-6. Area 4 Pumping

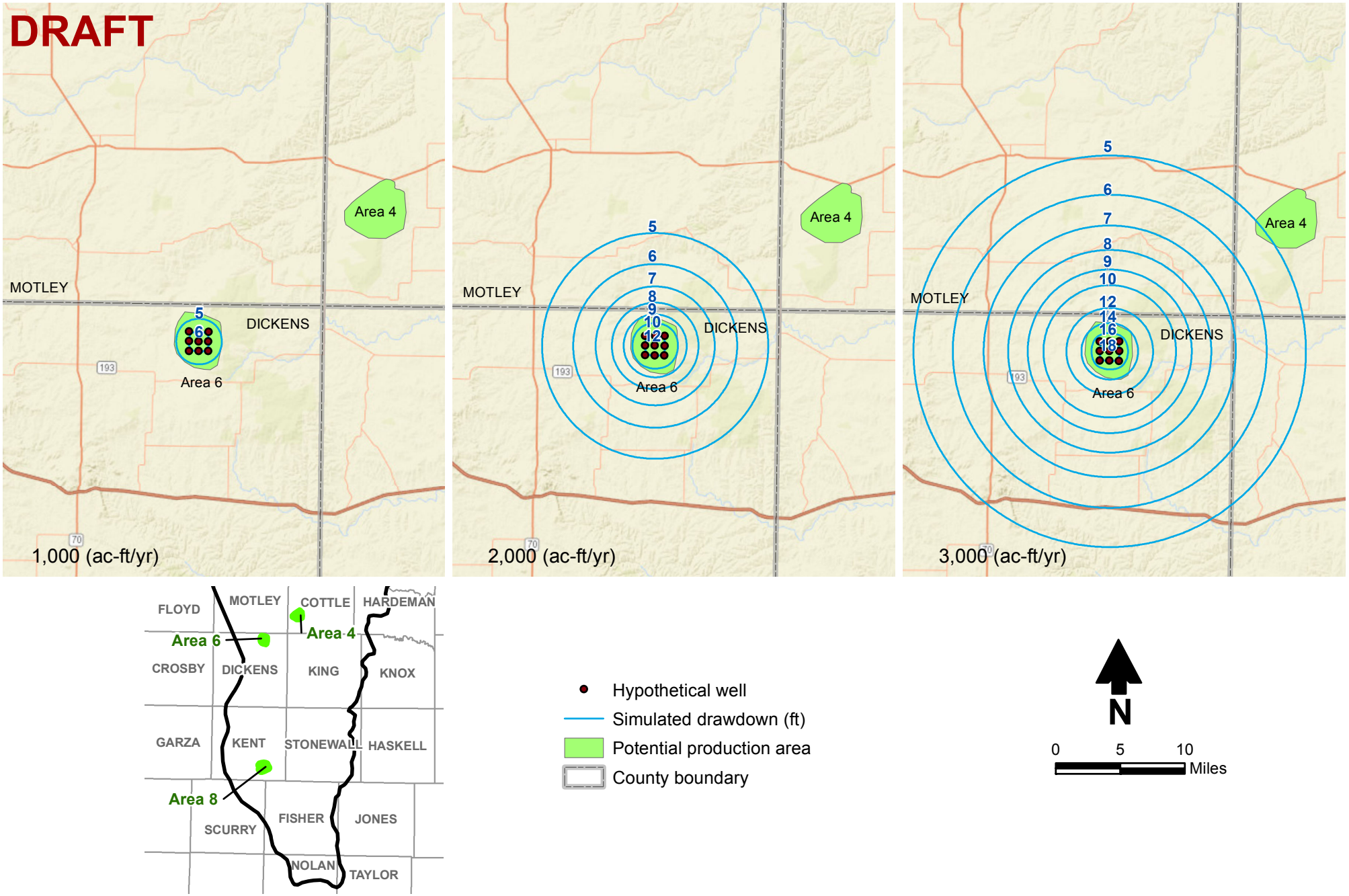


Figure 14-7. Area 6 Pumping

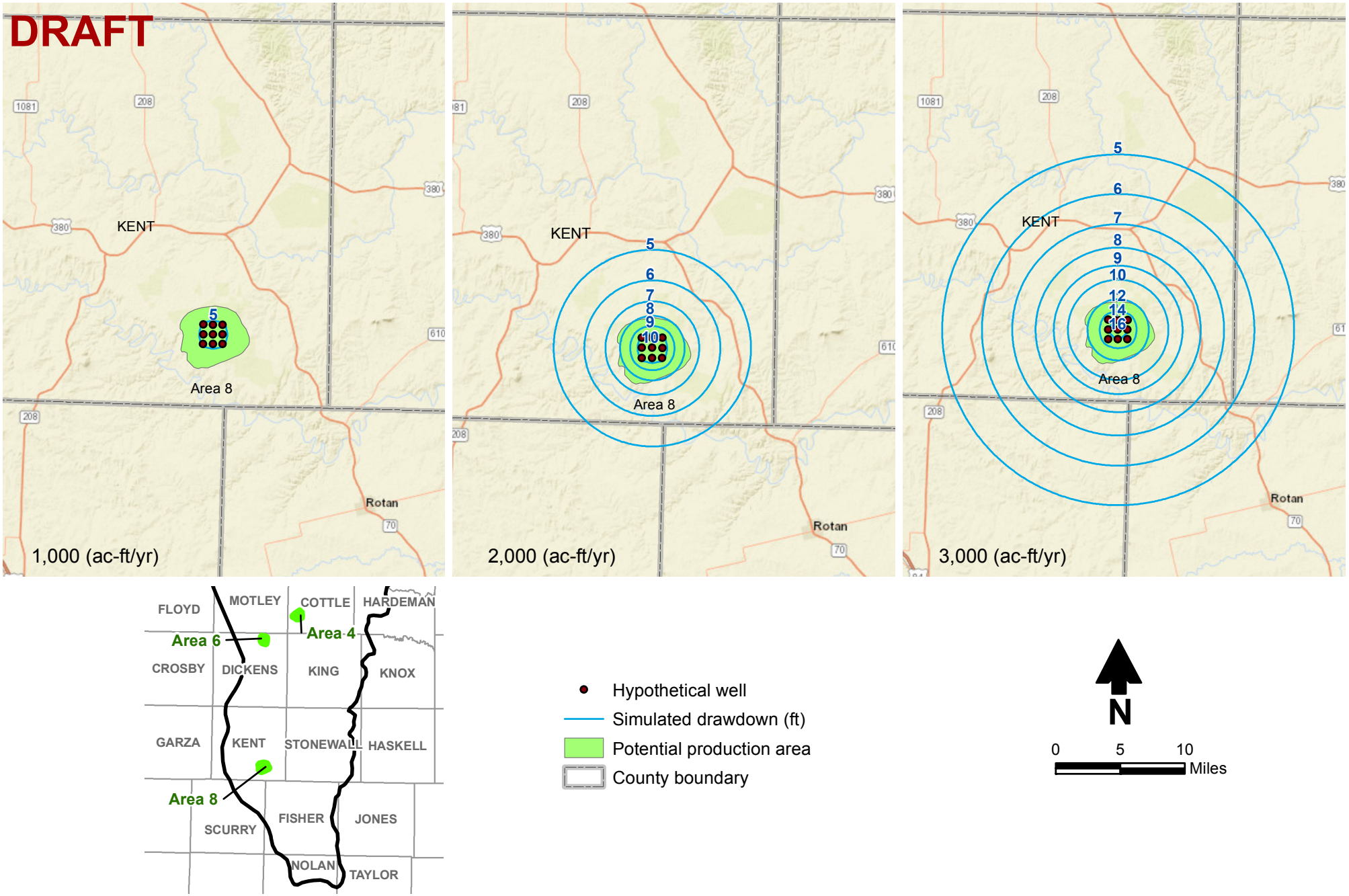


Figure 14-8. Area 8 Pumping