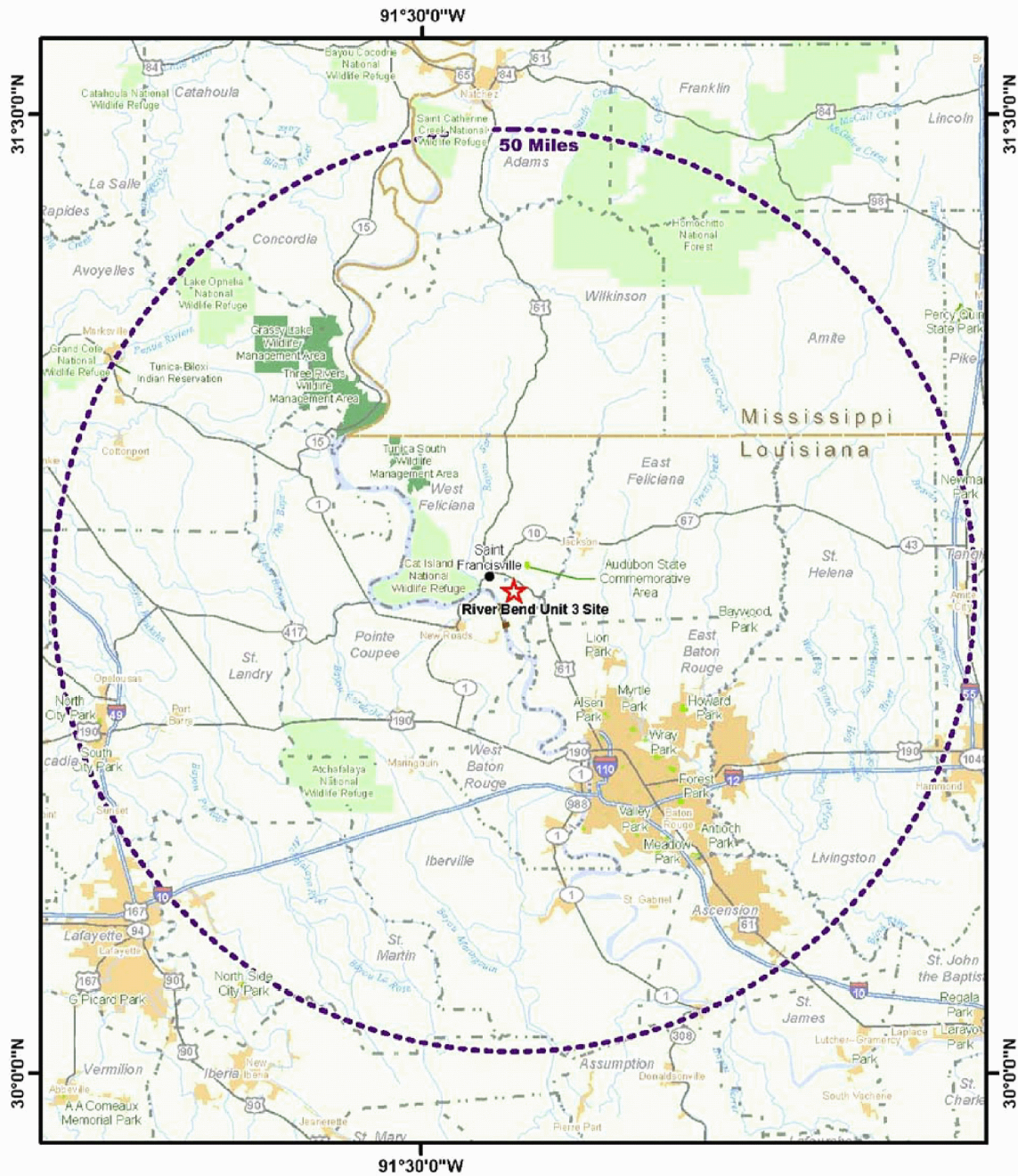


**River Bend Station, Unit 3
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LEGEND

- ★ River Bend Unit 3 site
- Urban Area
- State Park/Forest
- Local Park or Recreational Area
- Federal Lands
- Minor River/Stream
- Major river
- Lake
- Limited Access Road
- Highway
- County/Parish

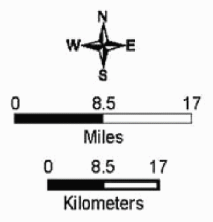
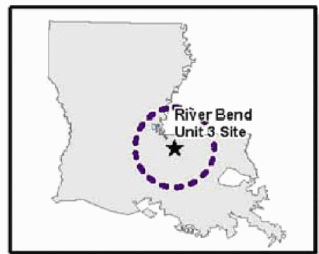


Figure 2.4.12-201. Site Location Map

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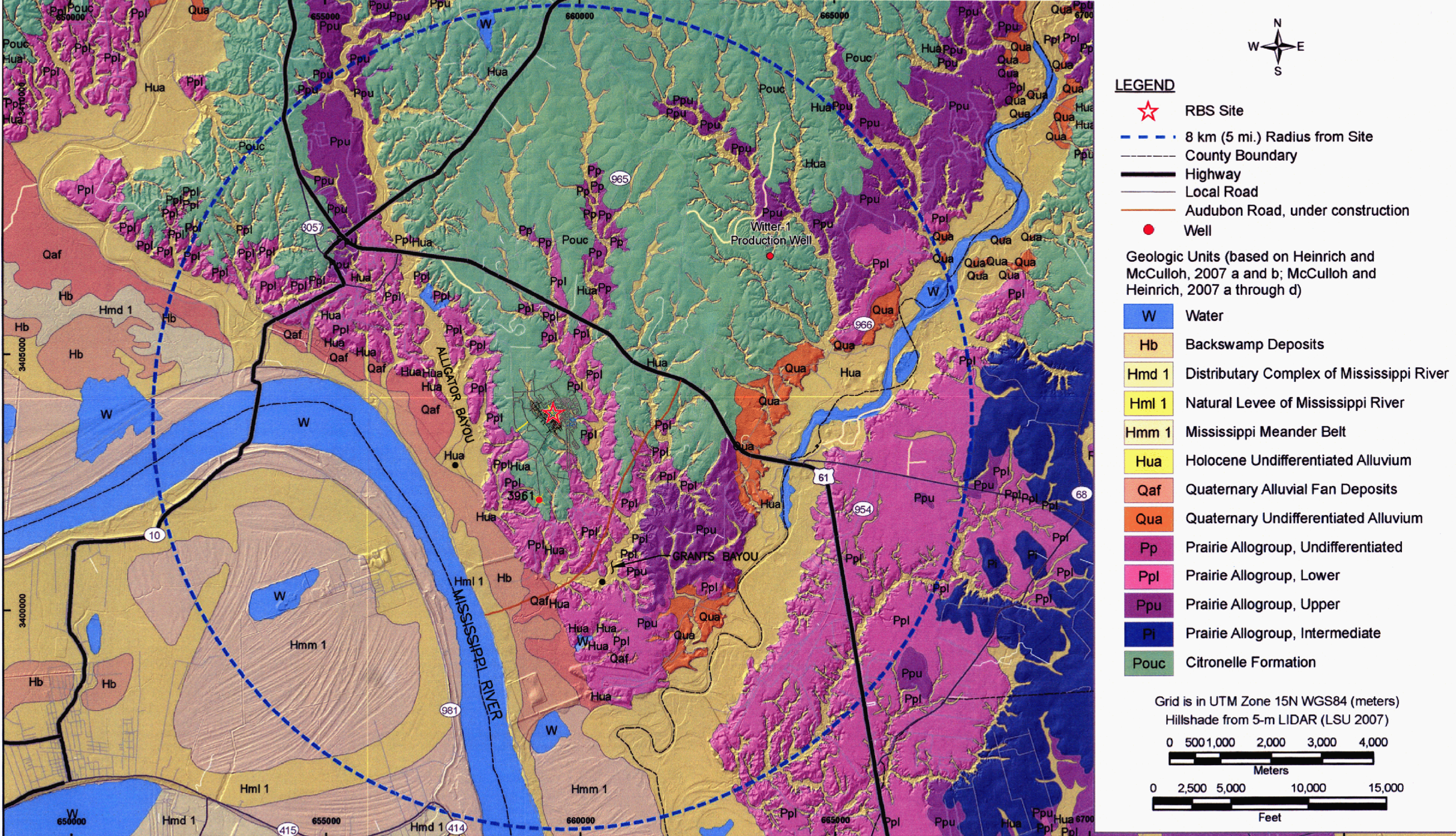
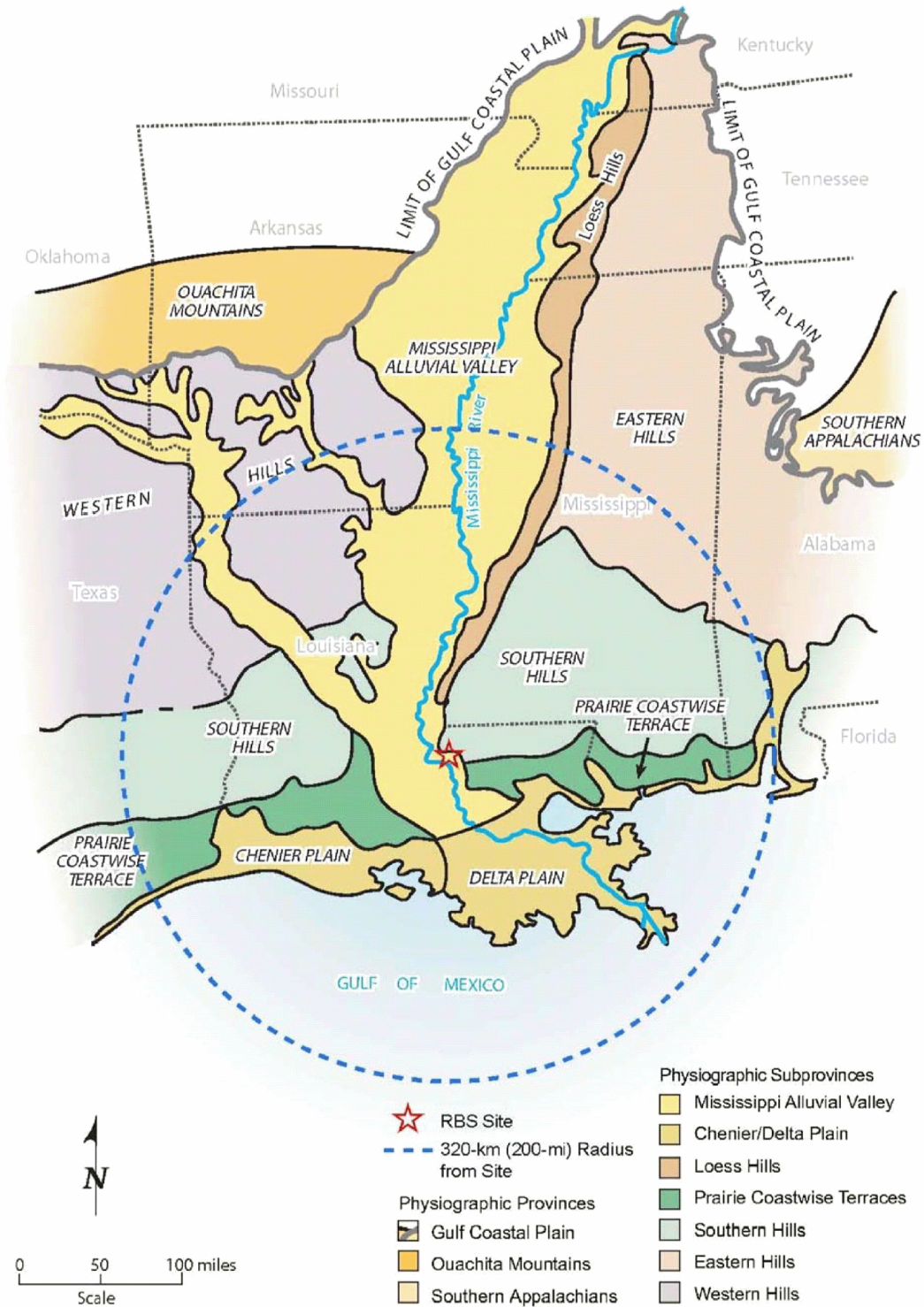


Figure 2.4.12-202. Geologic Map of the Site Area

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Modified from: SERI (2006), Figure 2.5-2

Figure 2.4.12-203. Regional Physiographic Sections within the Gulf Coastal Plains

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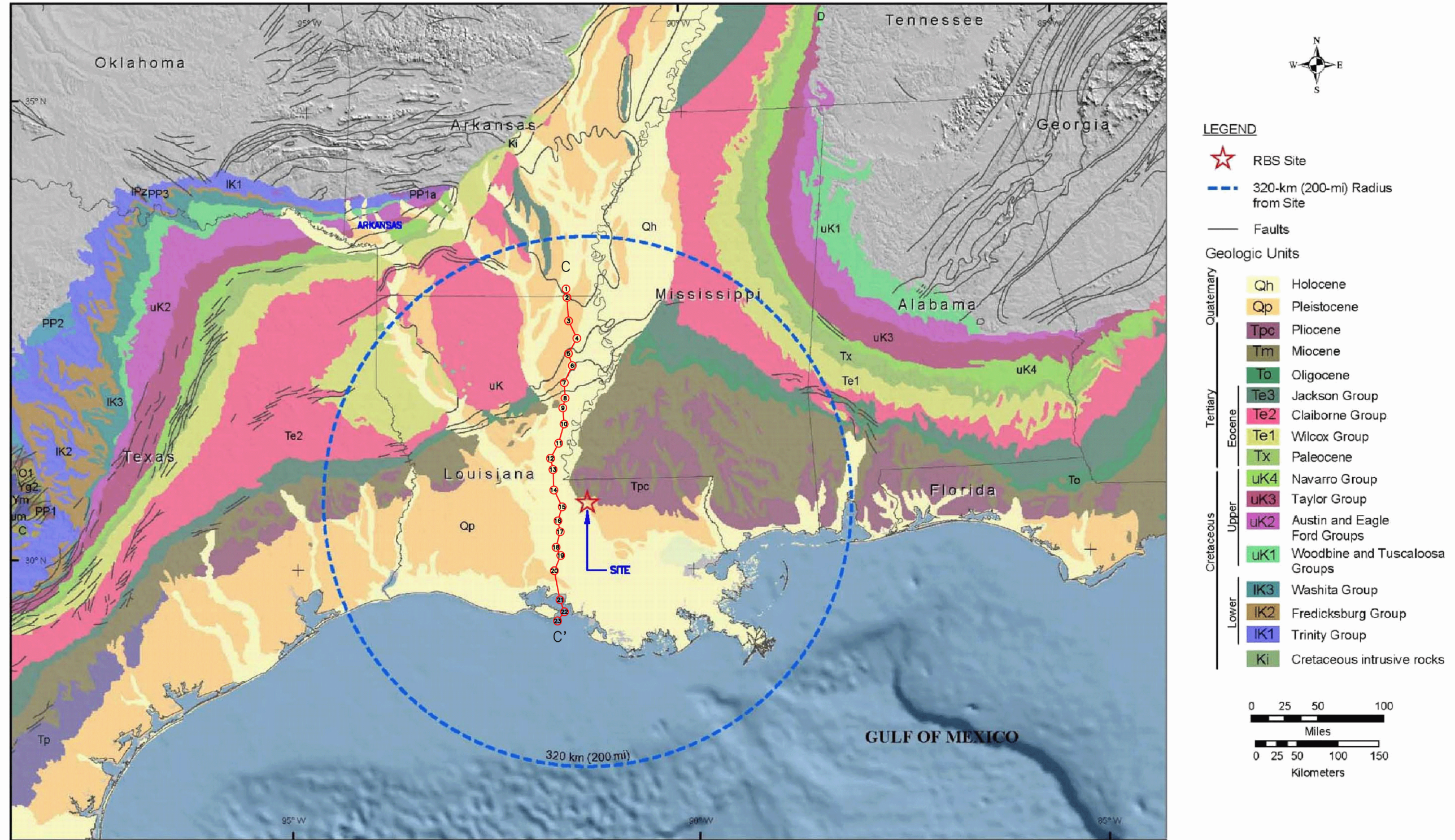


Figure 2.4.12-204. Regional Geologic Map

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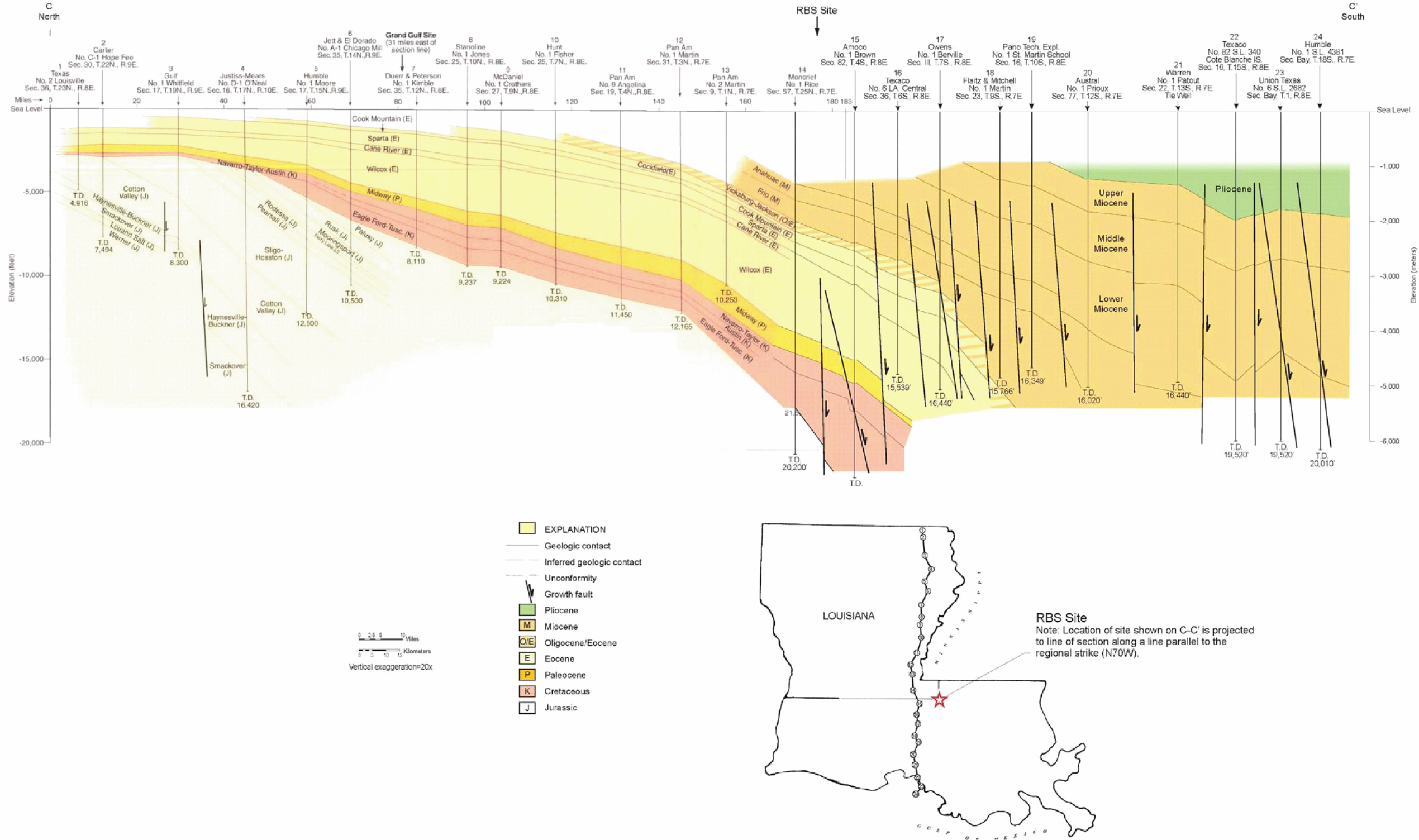


Figure 2.4.12-205. Regional Geologic Cross-Section C-C'

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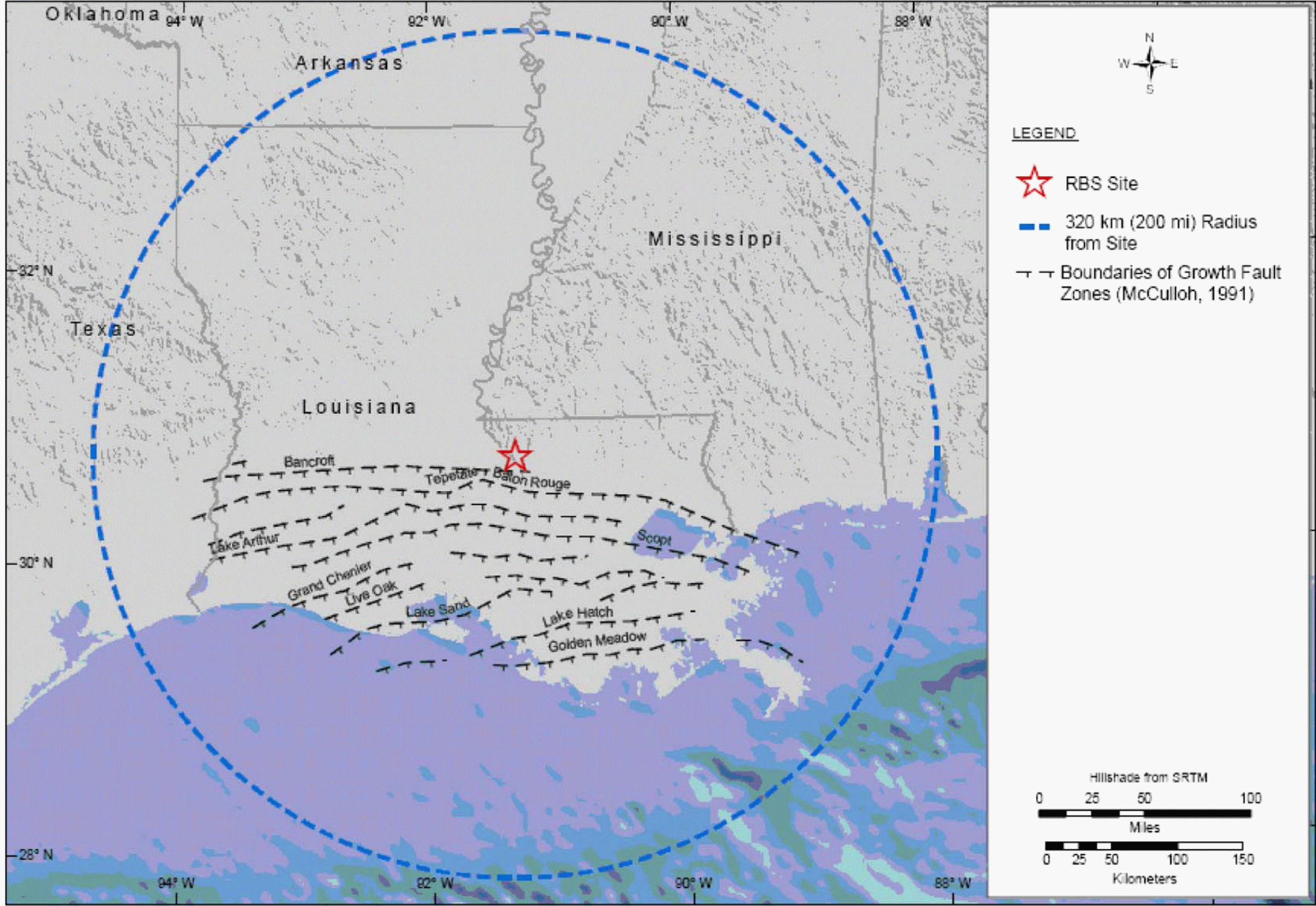


Figure 2.4.12-206. Boundaries of Growth Fault Zones in the Site Region

River Bend Station, Unit 3
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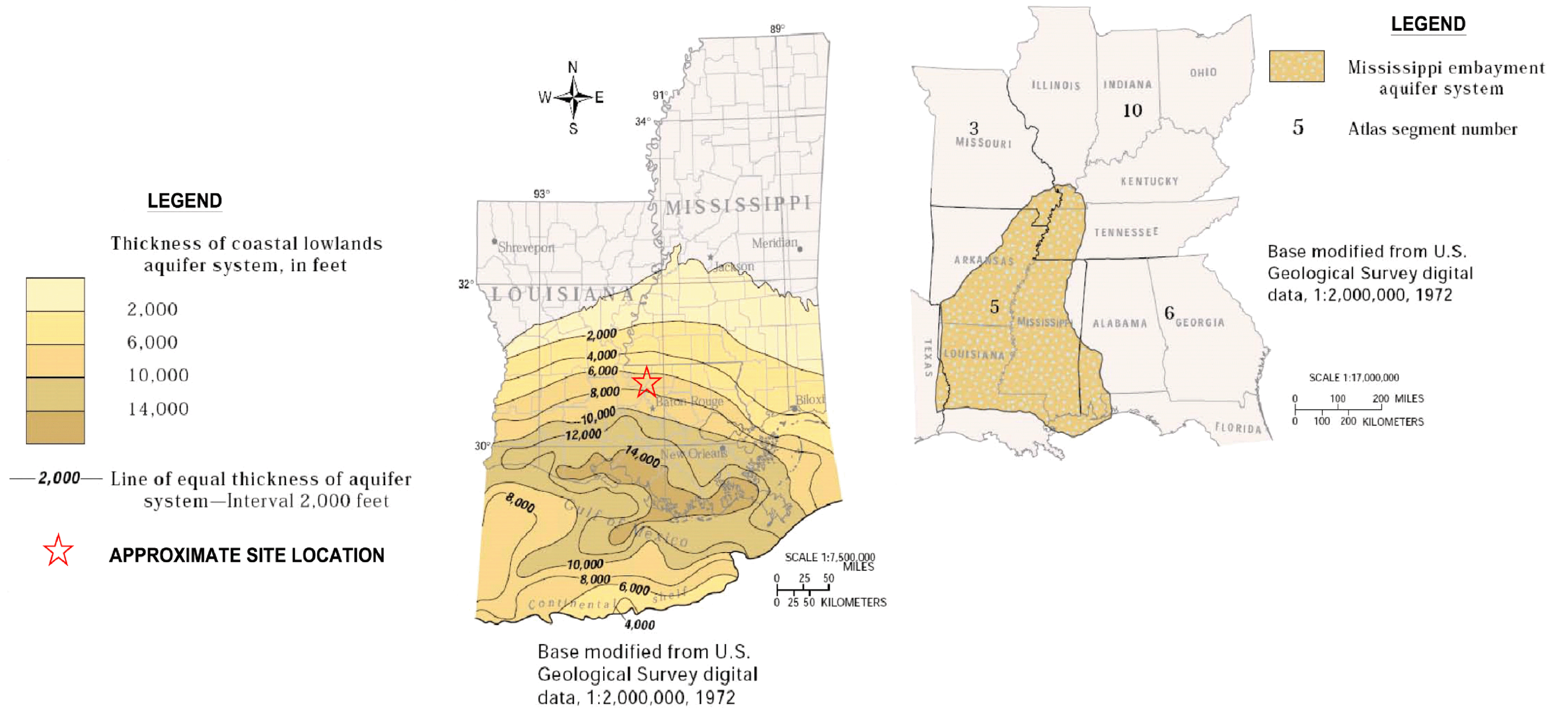
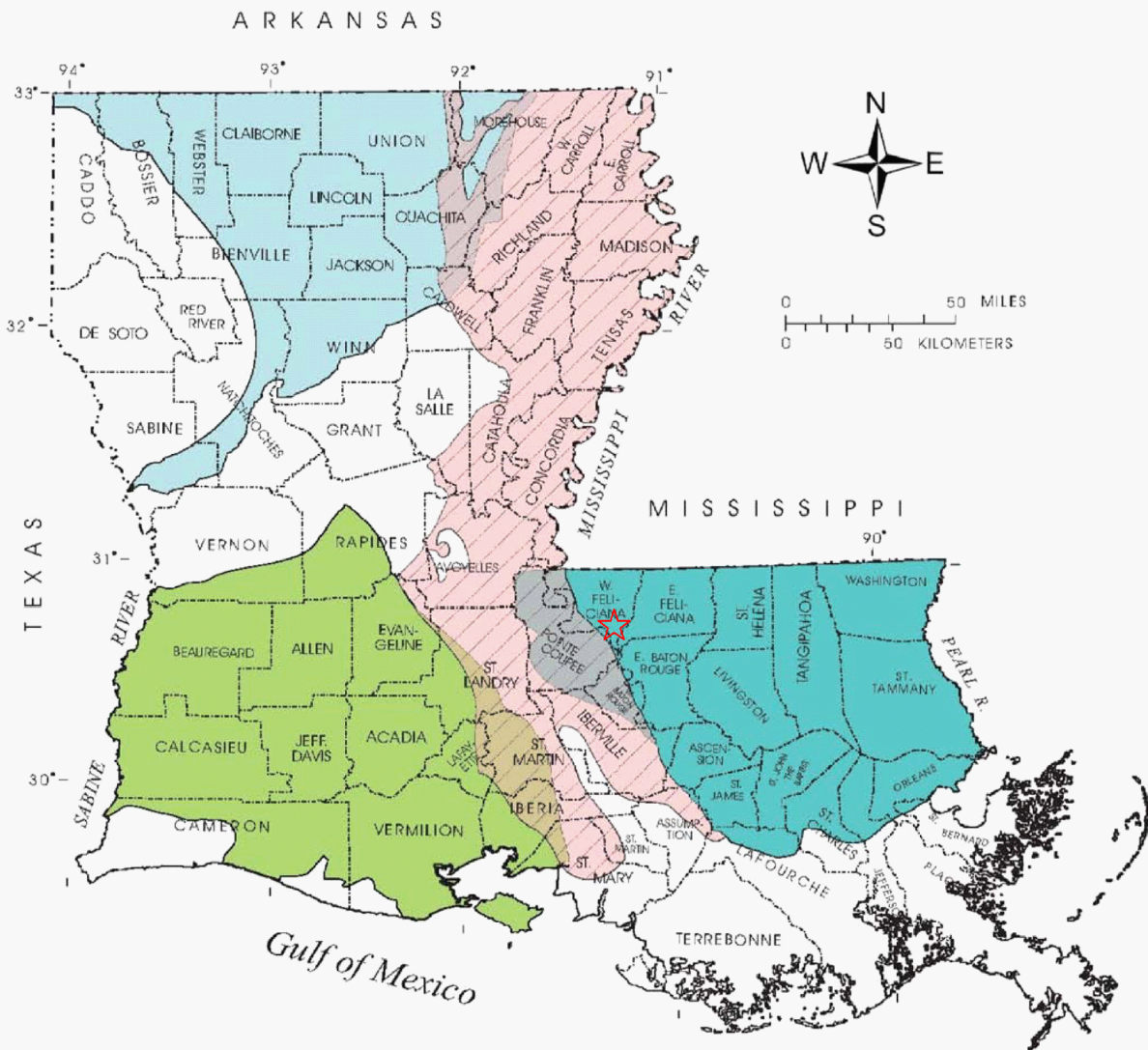


Figure 2.4.12-207. Coastal Lowlands and Mississippi Embayment Aquifer Systems

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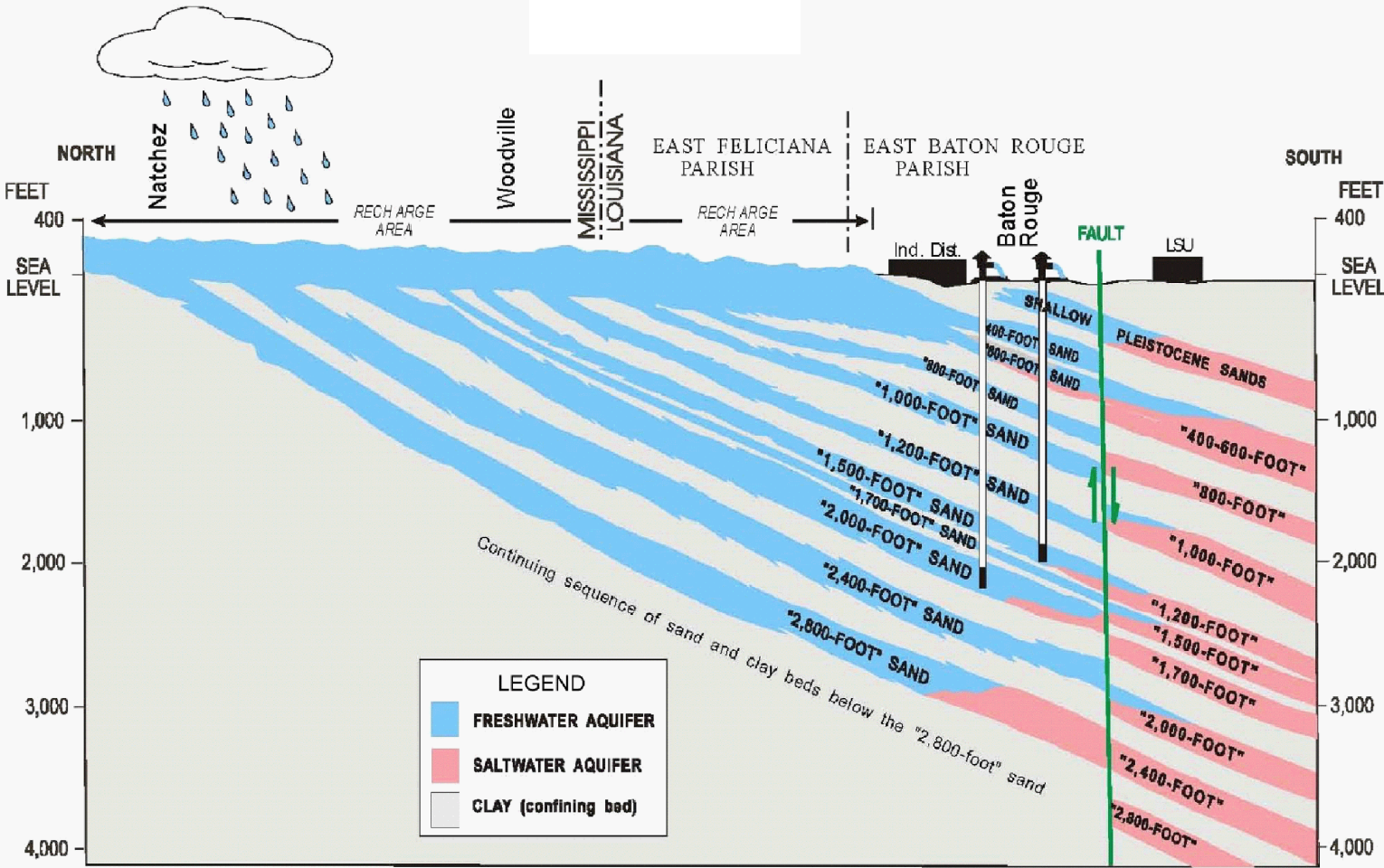
EXPLANATION

SELECTED AQUIFERS AND AQUIFER SYSTEMS:

- | | |
|--|---|
| <ul style="list-style-type: none"> SPARTA AQUIFER MISSISSIPPI RIVER ALLUVIAL AQUIFER CHICOT AQUIFER SYSTEM SOUTHERN HILLS AQUIFER SYSTEM
(INCLUDES CHICOT EQUIVALENT, EVANGELINE EQUIVALENT, JASPER EQUIVALENT, AND CATAHOULA EQUIVALENT AQUIFER SYSTEMS) | <ul style="list-style-type: none"> ★ LOCATION OF SITE |
|--|---|

Figure 2.4.12-208. Extent of Regional Aquifers

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Idealized cross-section showing aquifers in the Baton Rouge area.

Figure 2.4.12-209. Generalized North-South Hydrogeologic Cross-Section Showing Baton Rouge Fault, the Downgradient Extent of the Regional Aquifers

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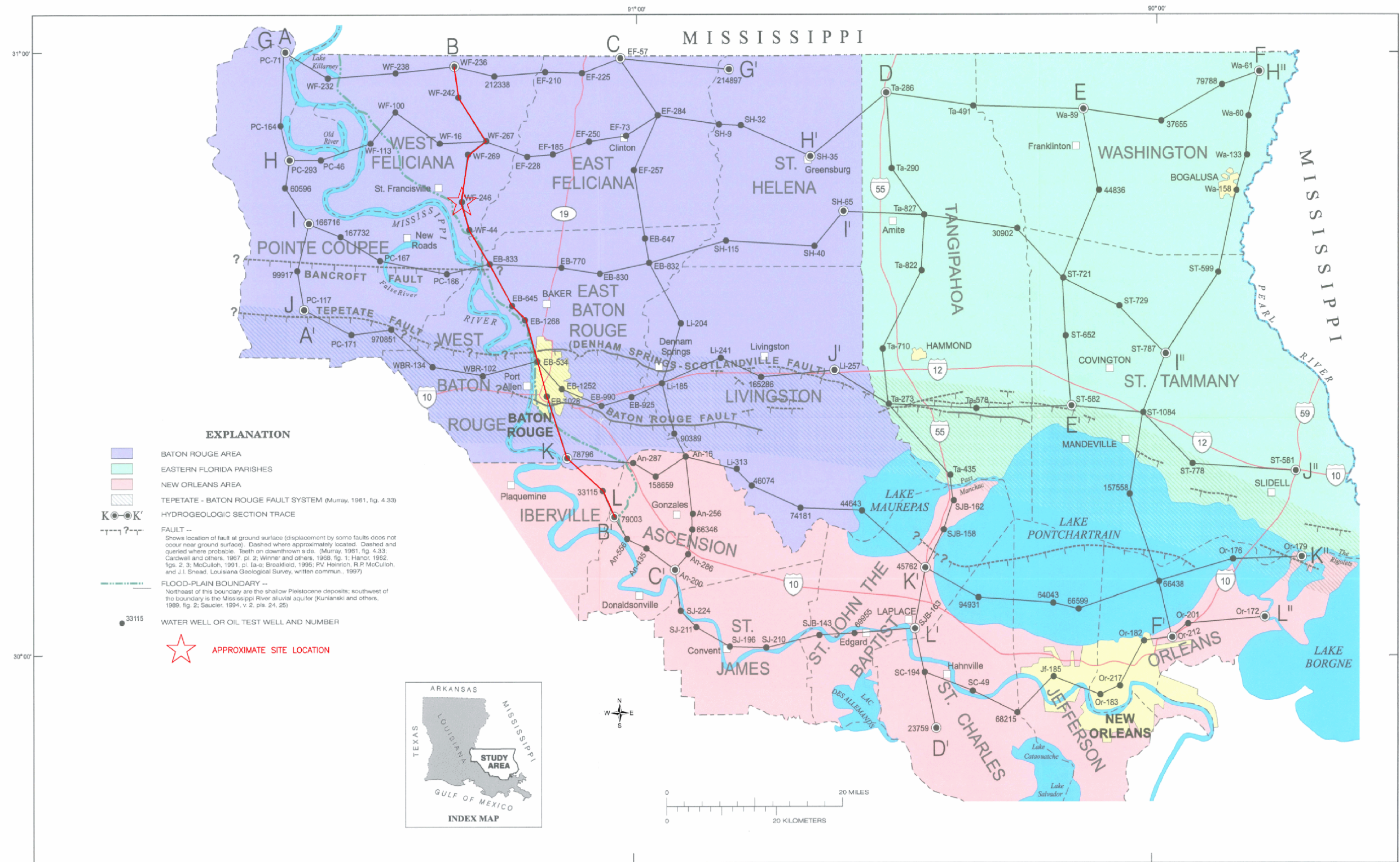


Figure 2.4.12-210. Trace of Hydrogeologic Cross-Section B-B'

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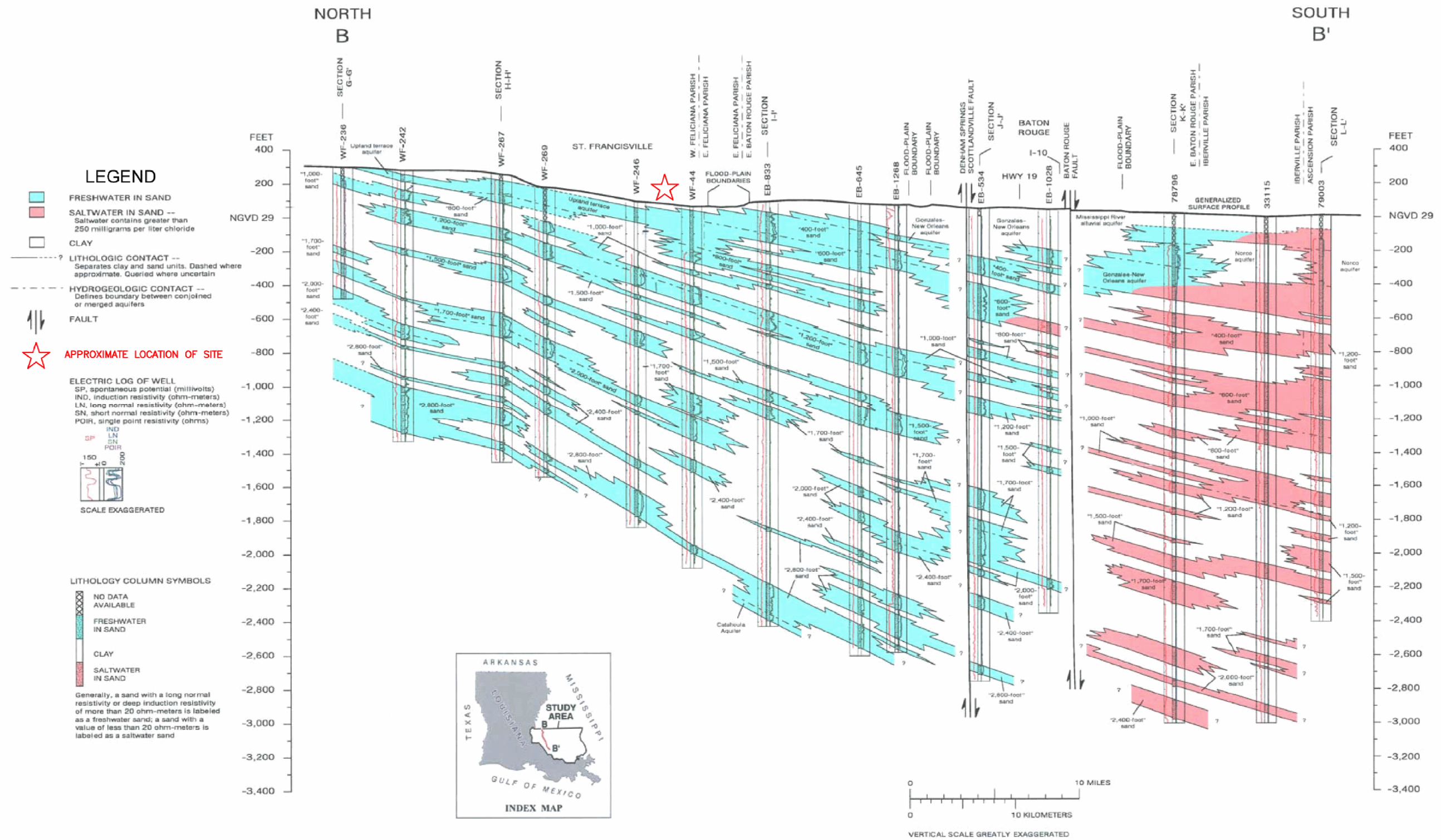


Figure 2.4.12-211. Hydrogeologic Cross-Section B-B' Showing RBS Power Block Production Well P1-B (WF-246)

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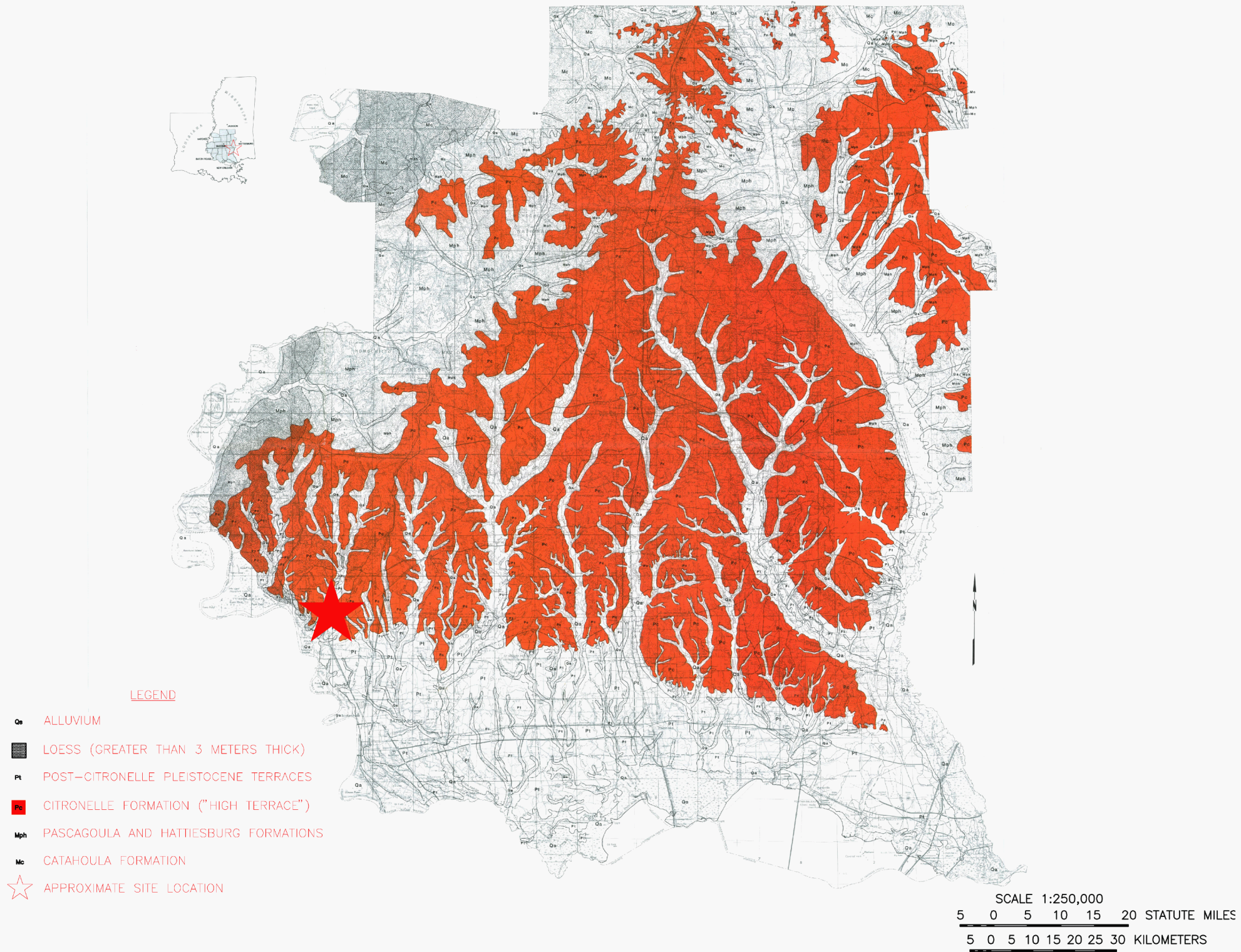


Figure 2.4.12-212. Map of Citronelle Formation Outcrop

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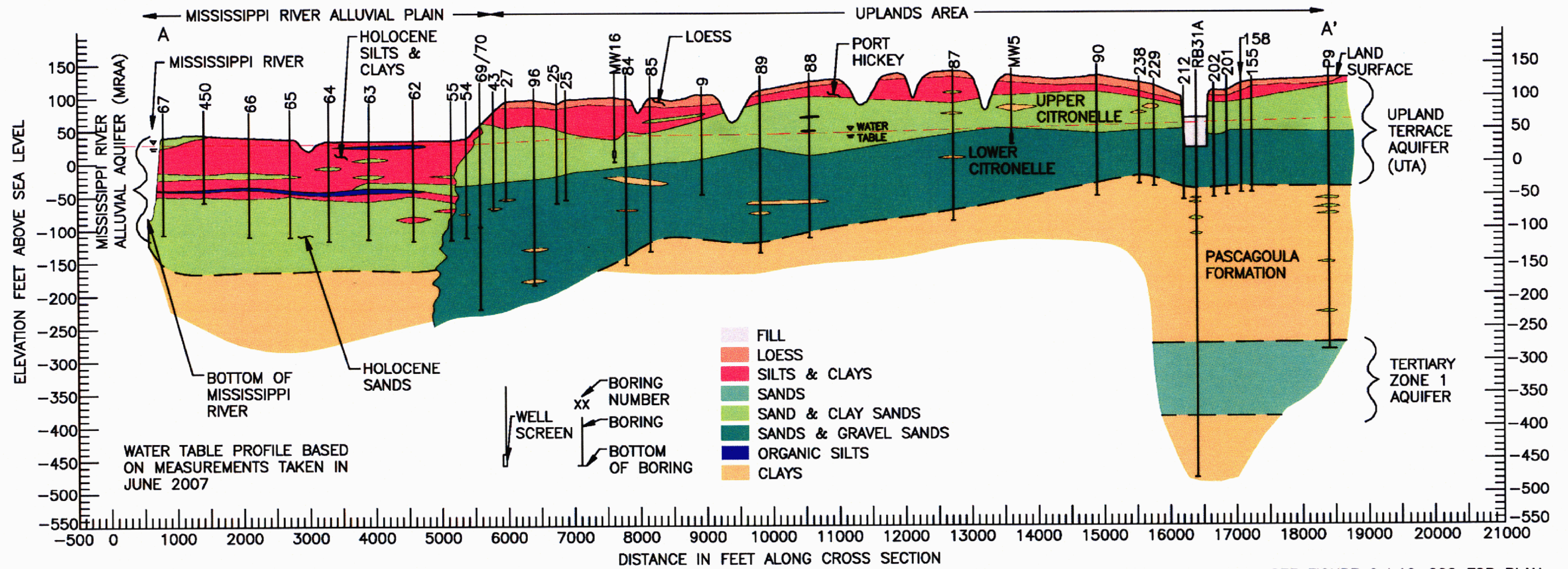


Figure 2.4.12-213. Cross-Section A-A'

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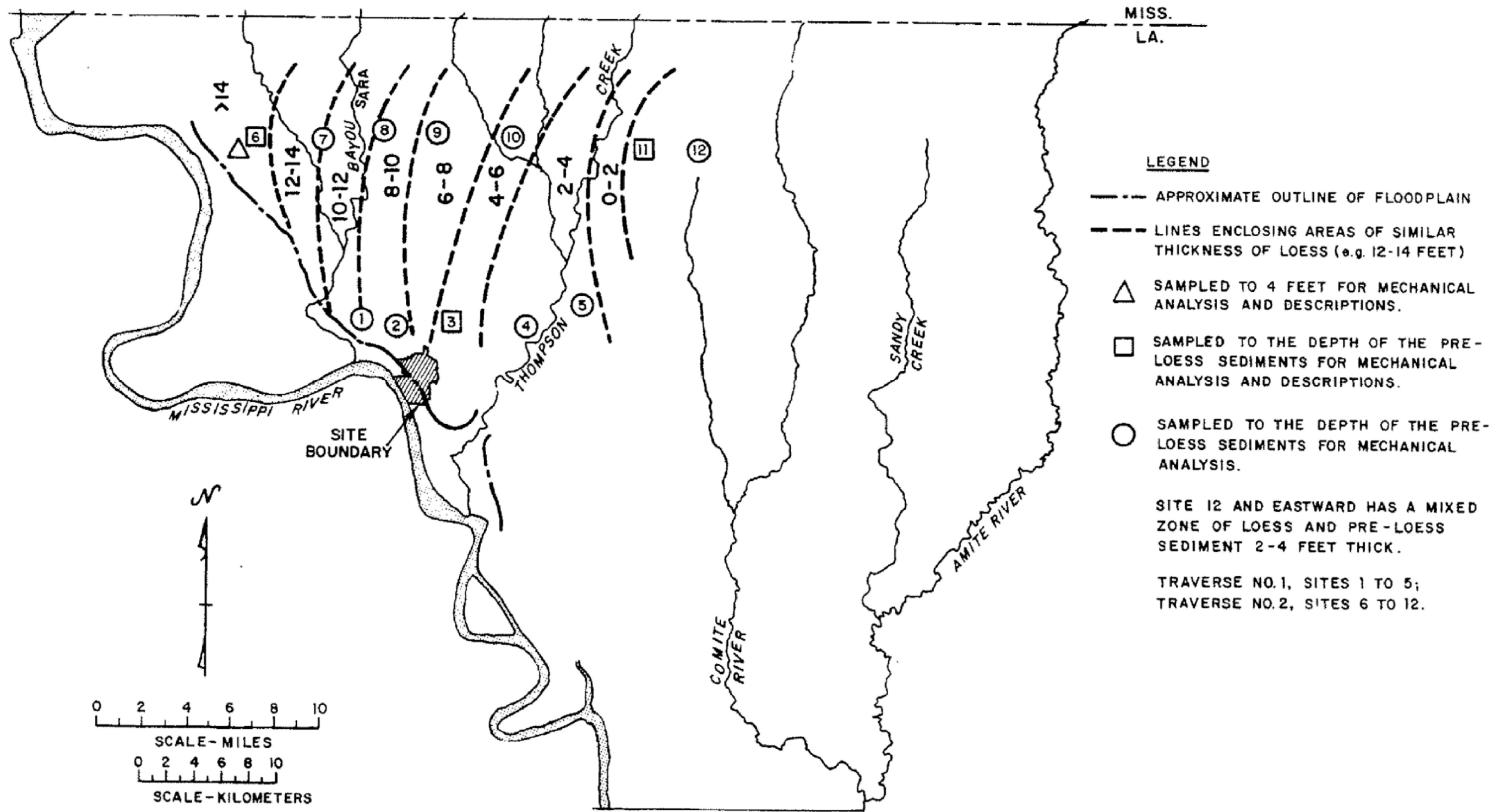


Figure 2.4.12-214. Loess Thickness Map

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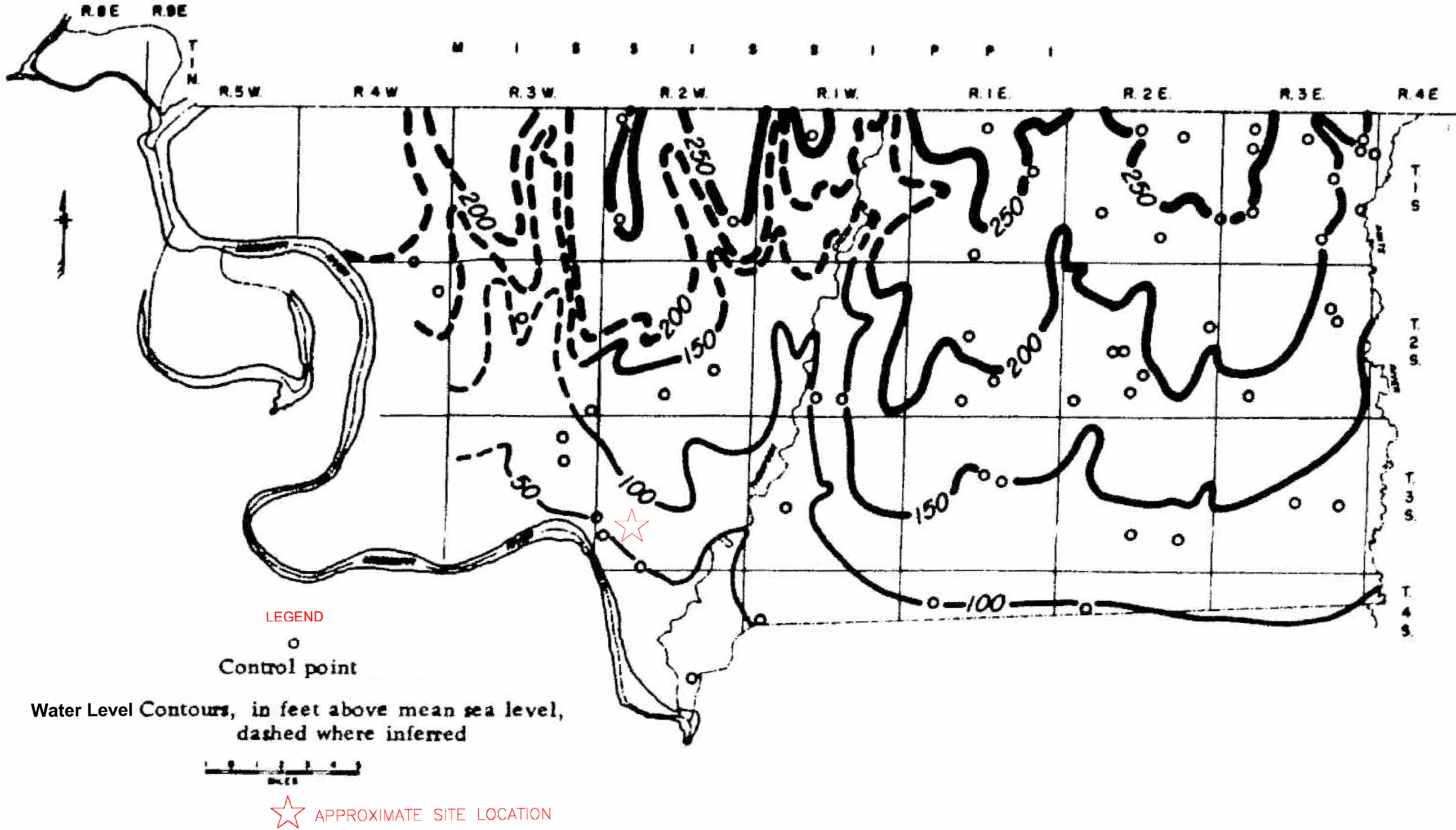


Figure 2.4.12-215. Map Showing Water Levels in the Quaternary Upland Deposits

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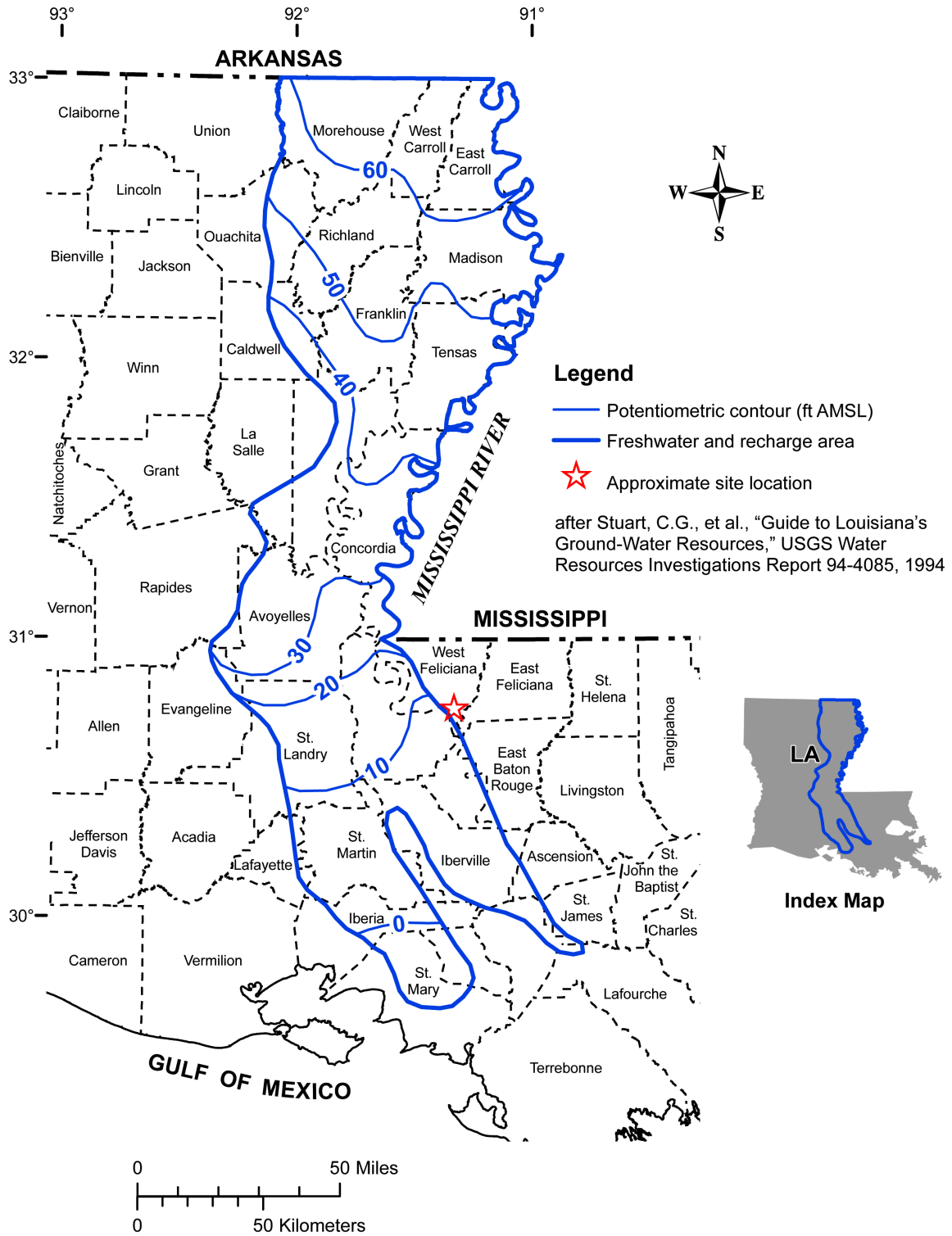


Figure 2.4.12-216. Potentiometric Surface and Direction of Water Movement in Mississippi River Alluvial Aquifer

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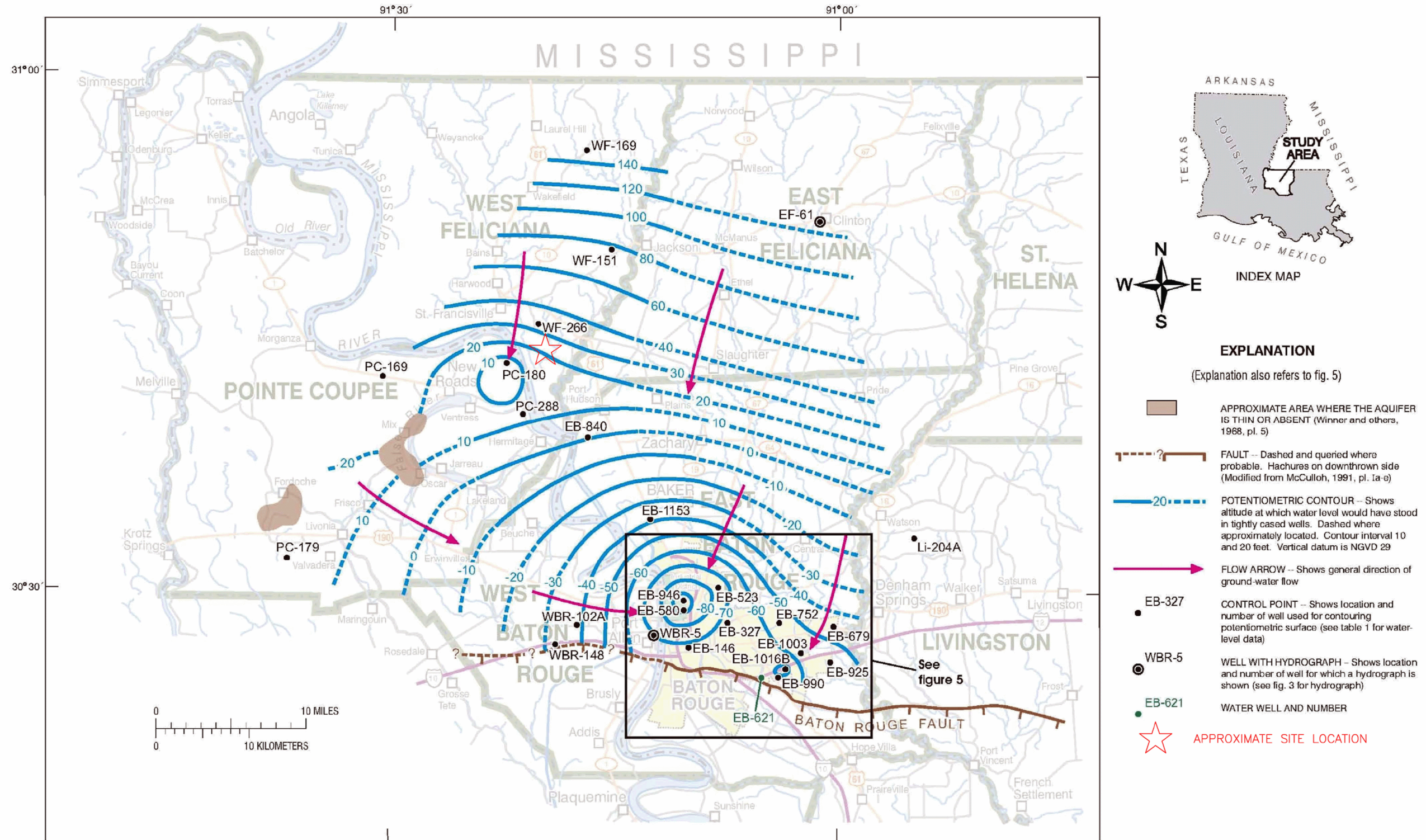
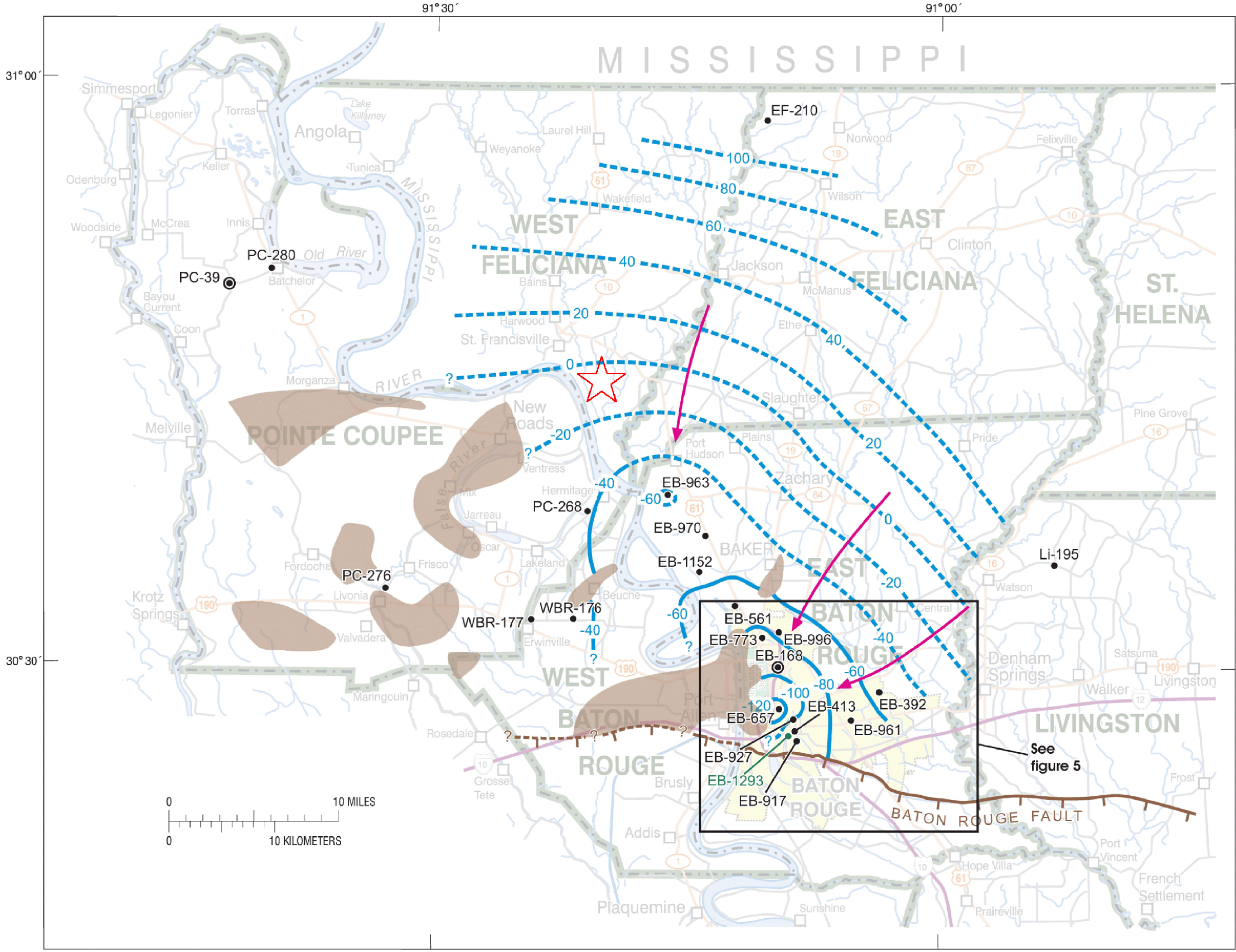


Figure 2.4.12-217. Potentiometric Surface of the 1200-Ft. Sand of the Baton Rouge Area

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EXPLANATION

(Explanation also refers to fig. 5)









-  APPROXIMATE AREA WHERE THE AQUIFER IS THIN OR ABSENT (modified from Whiteman, 1979, pl. 6; Winner and others, 1968, pl. 6)
-  FAULT -- Dashed and queried where probable. Hachures on downthrown side (modified from Whiteman, 1979, pl. 6; McCulloh, 1991, pl. 1a-e)
-  POTENTIOMETRIC CONTOUR -- Shows altitude at which water level would have stood in tightly cased wells. Dashed where approximately located. Contour interval 10 and 20 feet. Vertical datum is NGVD 29
-  FLOW ARROW -- Shows general direction of ground-water flow
-  EB-961 CONTROL POINT -- Shows location and number of well used for contouring potentiometric surface (see table 1 for water-level data)
-  EB-168 WELL WITH HYDROGRAPH -- Shows location and number of well for which a hydrograph is shown (see fig. 3 for hydrograph)
-  EB-1293 CONNECTOR WELL -- Shows location of well screened in both the "800-foot" and "1,500-foot" sands
-  APPROXIMATE SITE LOCATION

Figure 2.4.12-218. Potentiometric Surface of the 1500-Ft. Sand of the Baton Rouge Area

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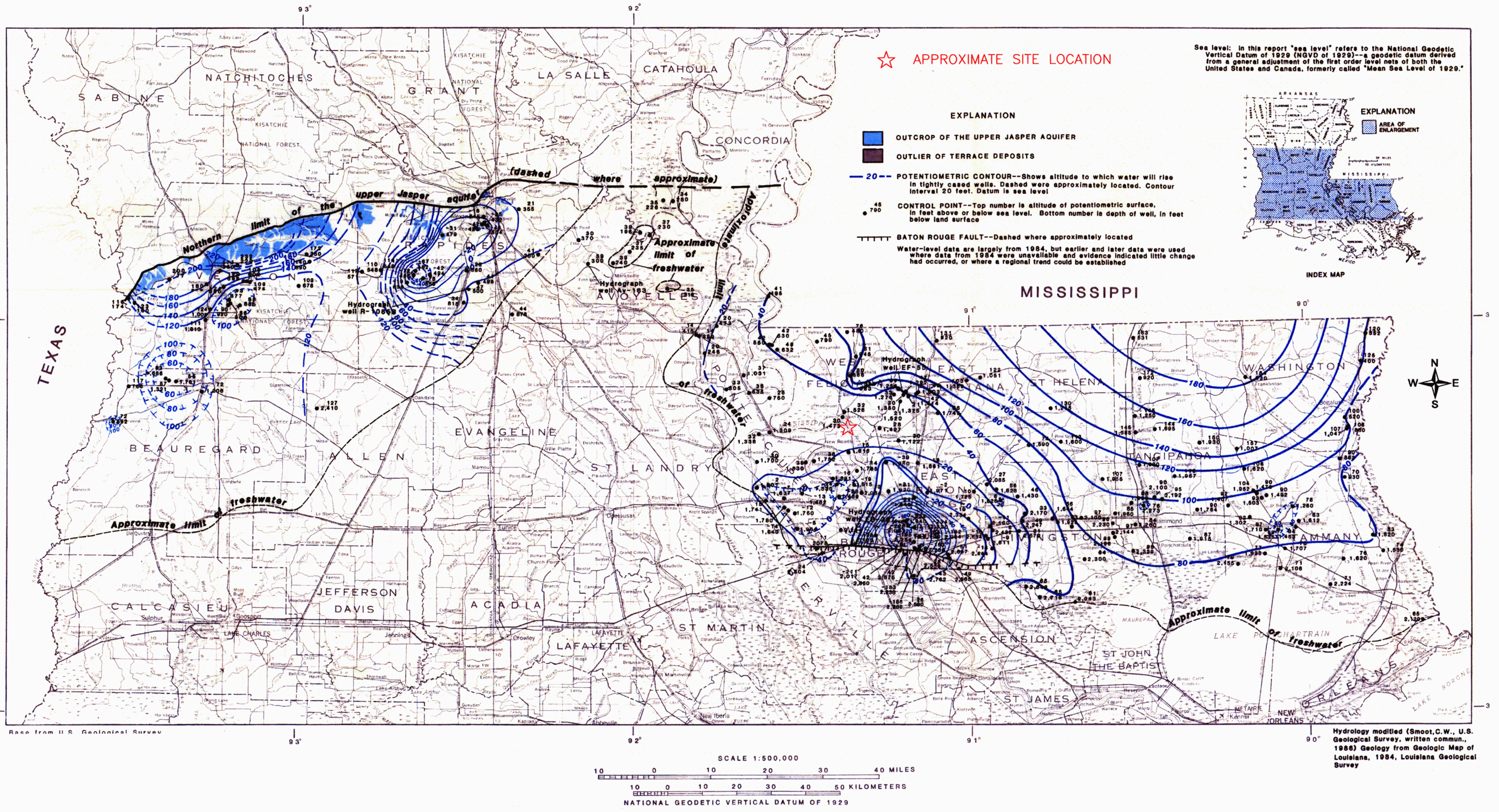


Figure 2.4.12-219. Generalized Potentiometric Surface of the Upper Jasper and Equivalent Aquifers in Louisiana, 1984

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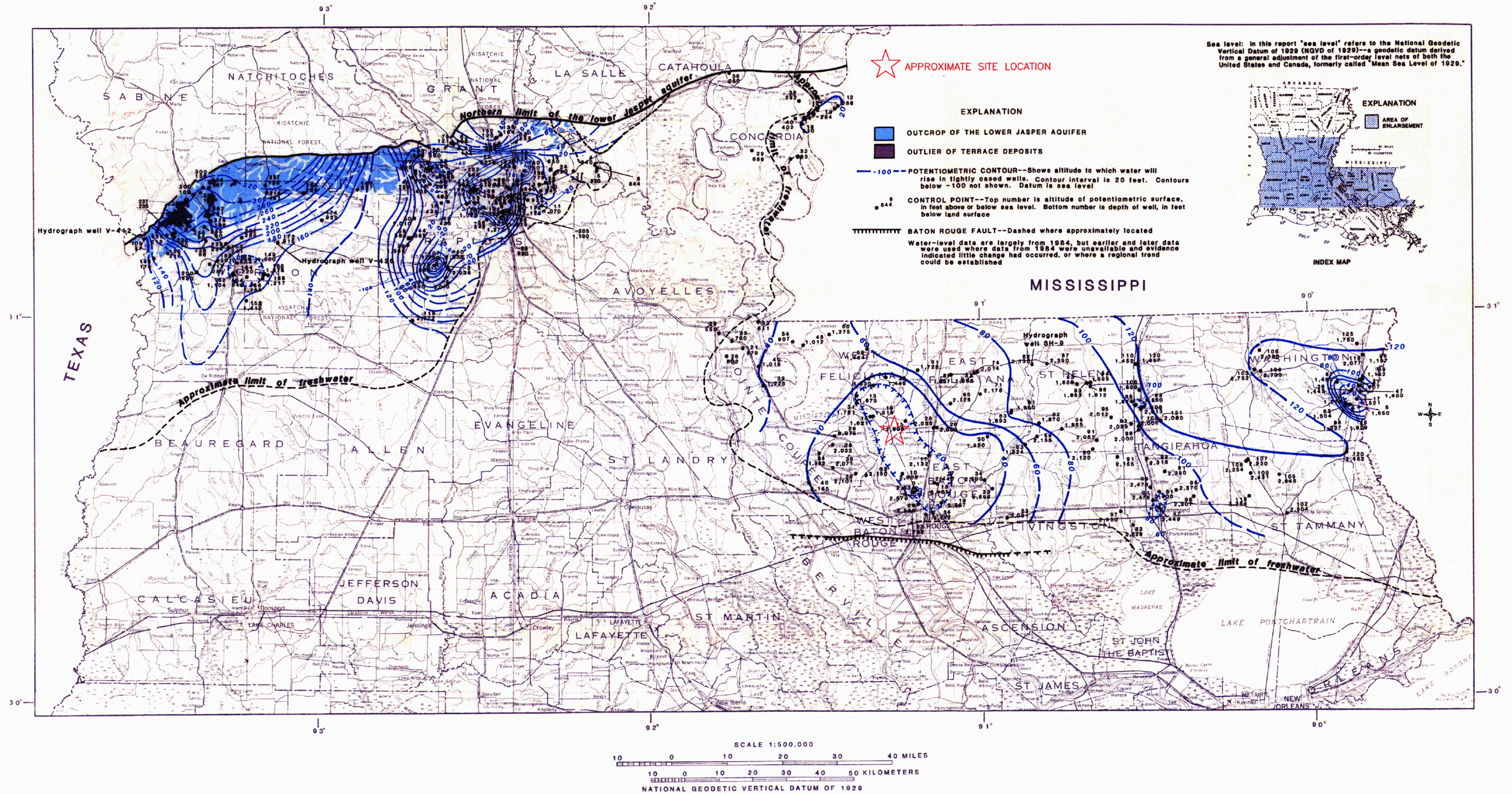


Figure 2.4.12-220. Generalized Potentiometric Surface of the Lower Jasper and Equivalent Aquifers in Louisiana, 1984

River Bend Station, Unit 3
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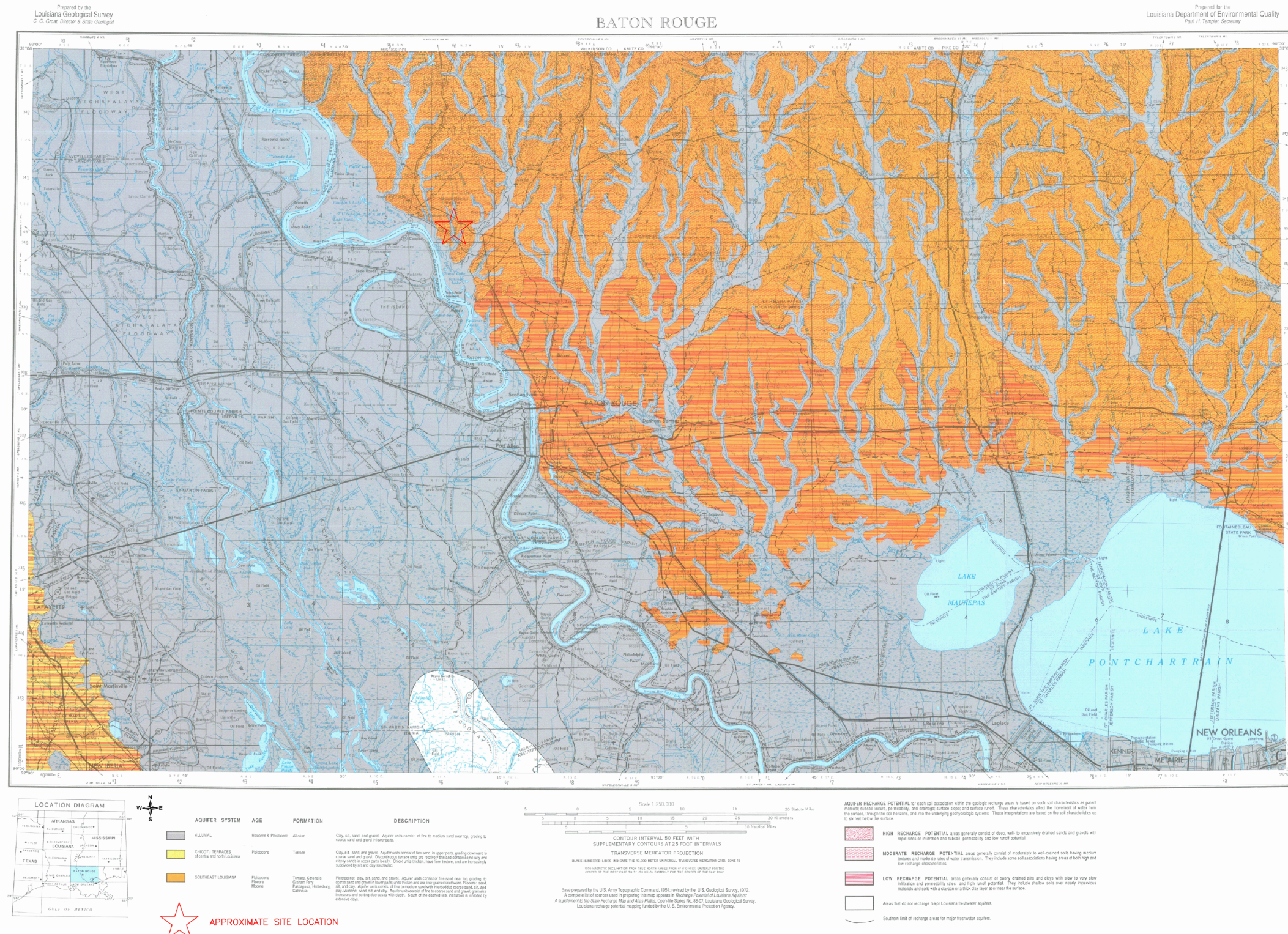


Figure 2.4.12-221. Aquifer Recharging Potential of the Baton Rouge Quadrangle

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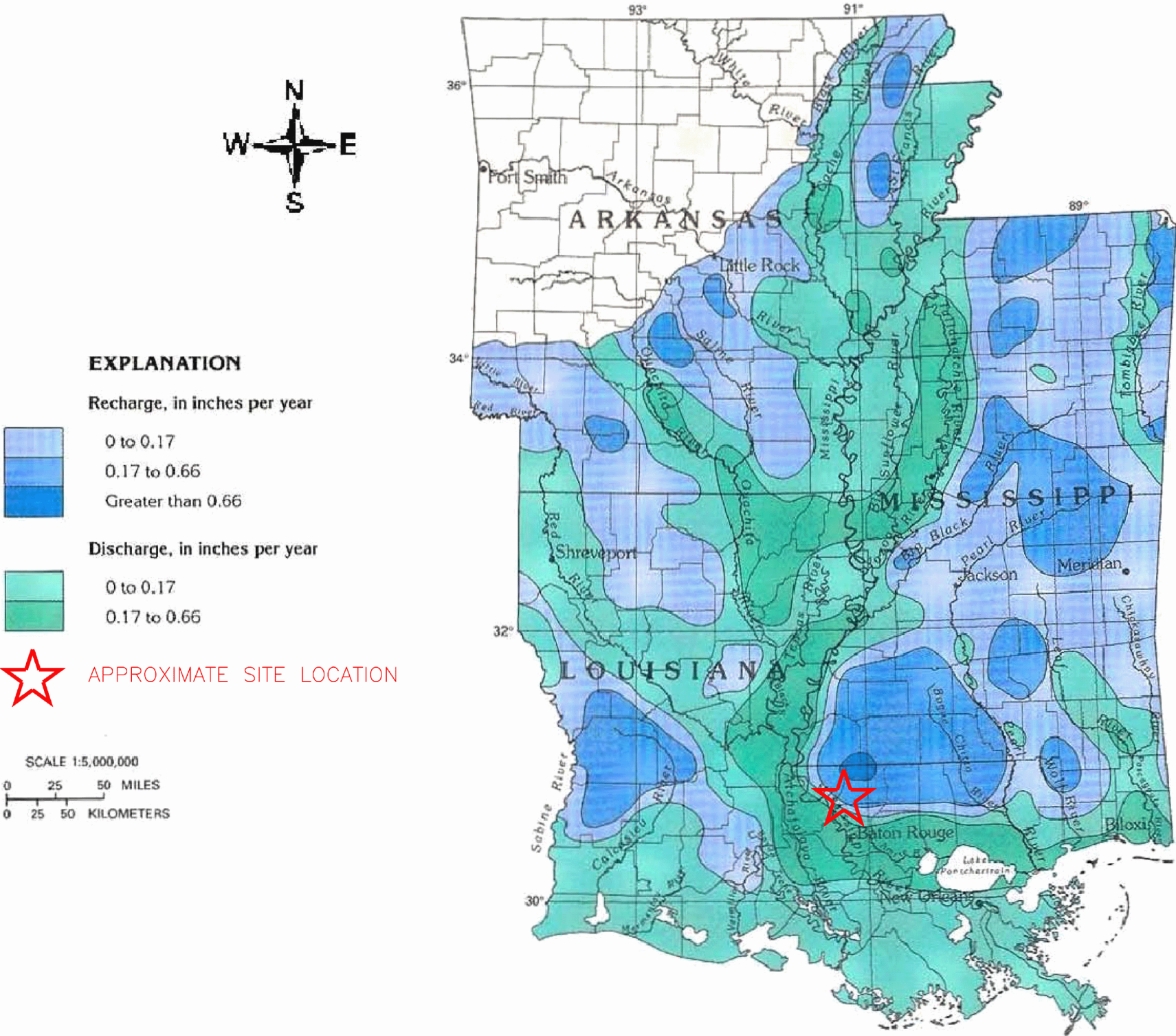


Figure 2.4.12-222. Pre-Development Recharge and Discharge Areas within the Coastal Plain Aquifers of Louisiana, Arkansas, and Mississippi

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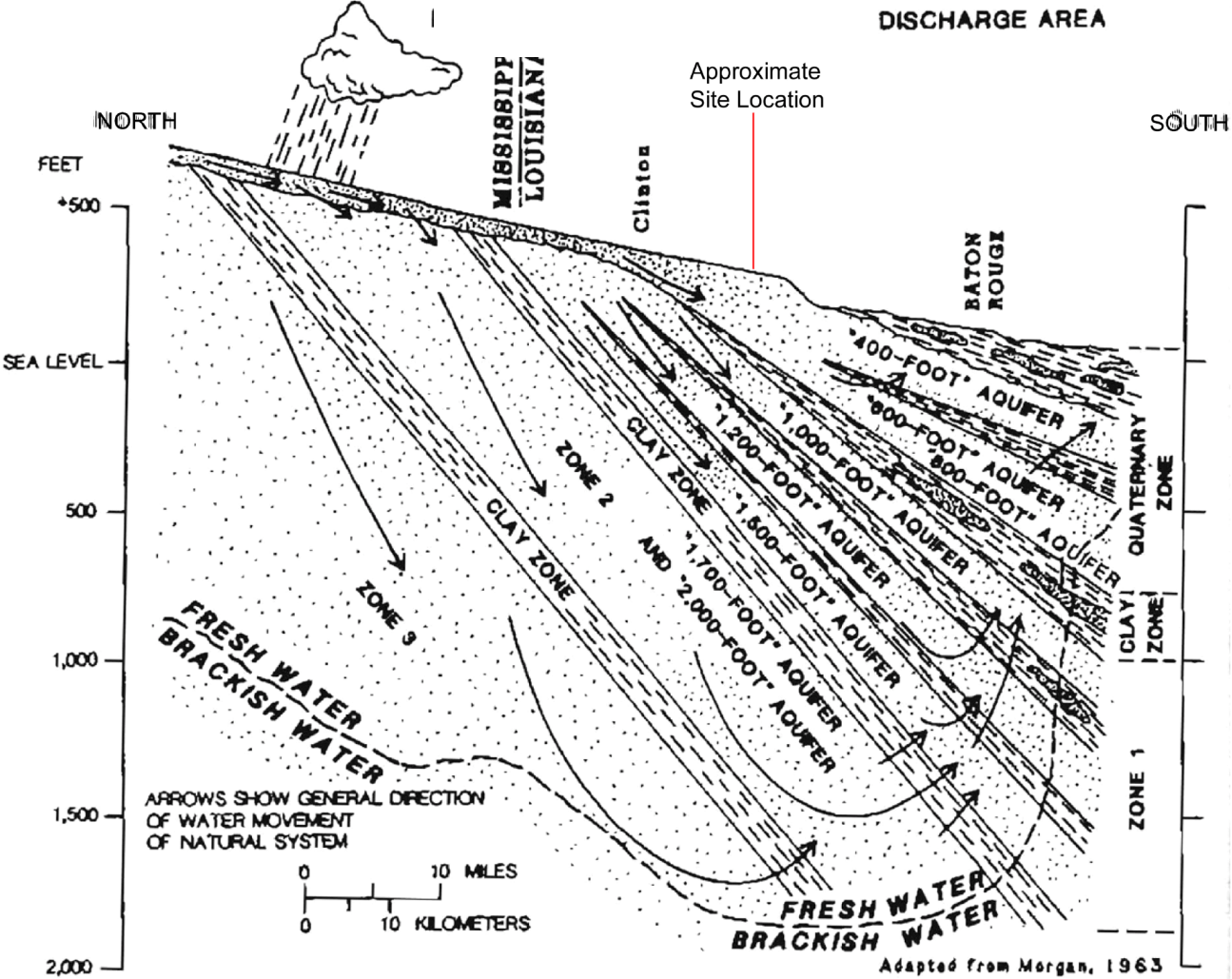


Figure 2.4.12-223. Generalized Section Showing Movement of Groundwater from the Recharge Area to the Discharge Area, Southeastern Louisiana

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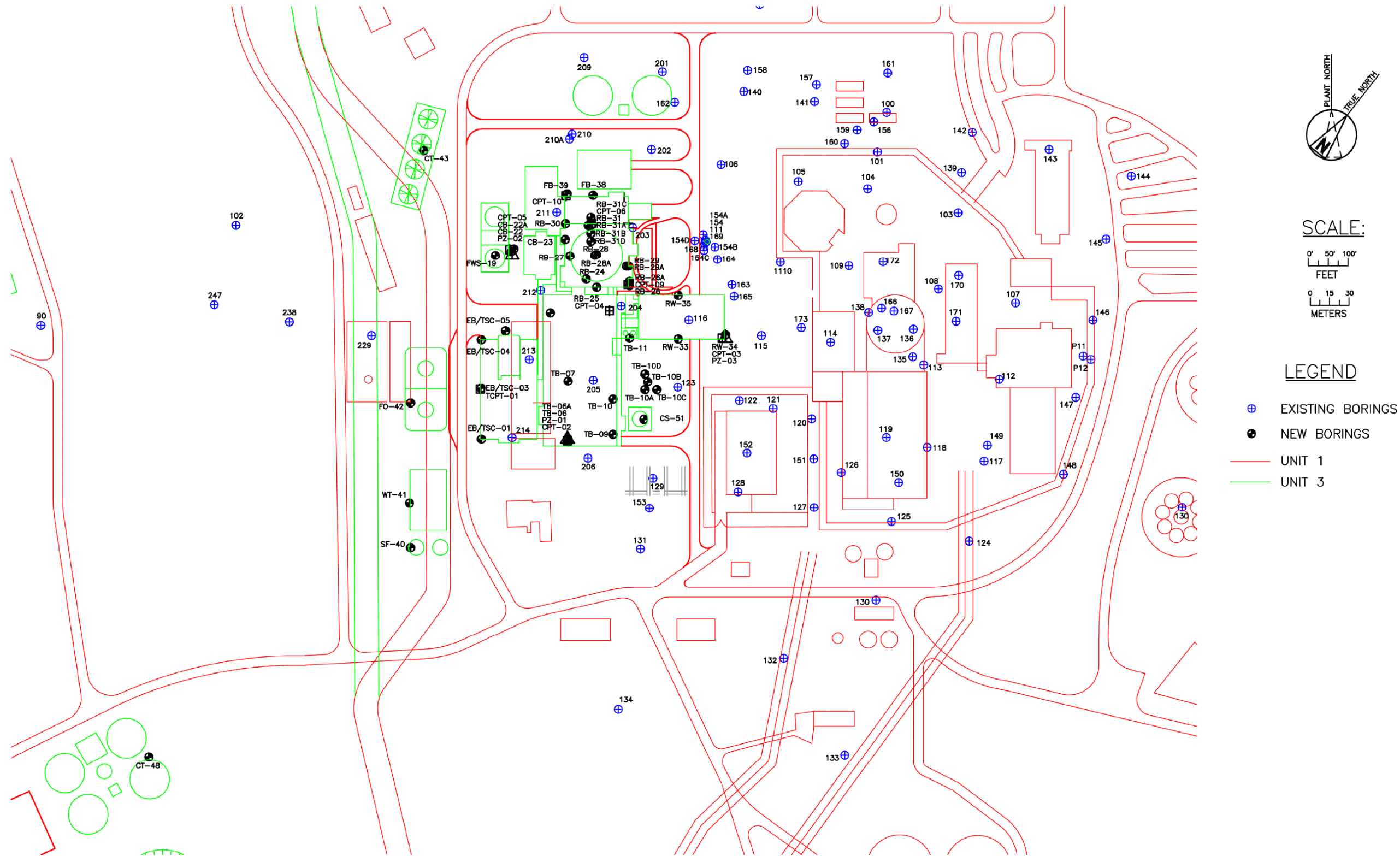


Figure 2.4.12-224. Location of Borings for Phase 3 Investigation