

ELECTRA DAM AND ELECTRA LAKE

OWNER

City of Electra

ENGINEER

Freese and Nichols, Consulting Engineers

LOCATION

7 miles southwest of Electra

DRAINAGE AREA

13.2 square miles (shown on Application drawings)
 14.7 square miles (estimated by Texas Water Rights Commission)

DAM

Type Earthen embankment
 Length 3,150[±] feet (established by Texas Water Rights Commission)
 Maximum height 39.6 feet (established by Texas Water Rights Commission)
 Top width 15.0 feet (established by Texas Water Rights Commission)
 Top elevation 1120.4 feet msl (established by Texas Water Rights Commission)

SPILLWAY (service)

Type 6 foot by 6 foot morning glory outlet
 Control None
 Crest 1111.0 feet msl (shown on Application drawings)
 1110.0 feet msl (established by U.S. Geological Survey - Topo Map Section)

SPILLWAY (emergency)

Type Broadcrested earth cut
 Crest length 400 feet
 Crest elevation 1114.0 feet msl (shown on Application drawings)
 1112.4 feet msl (established by Texas Water Rights Commission)

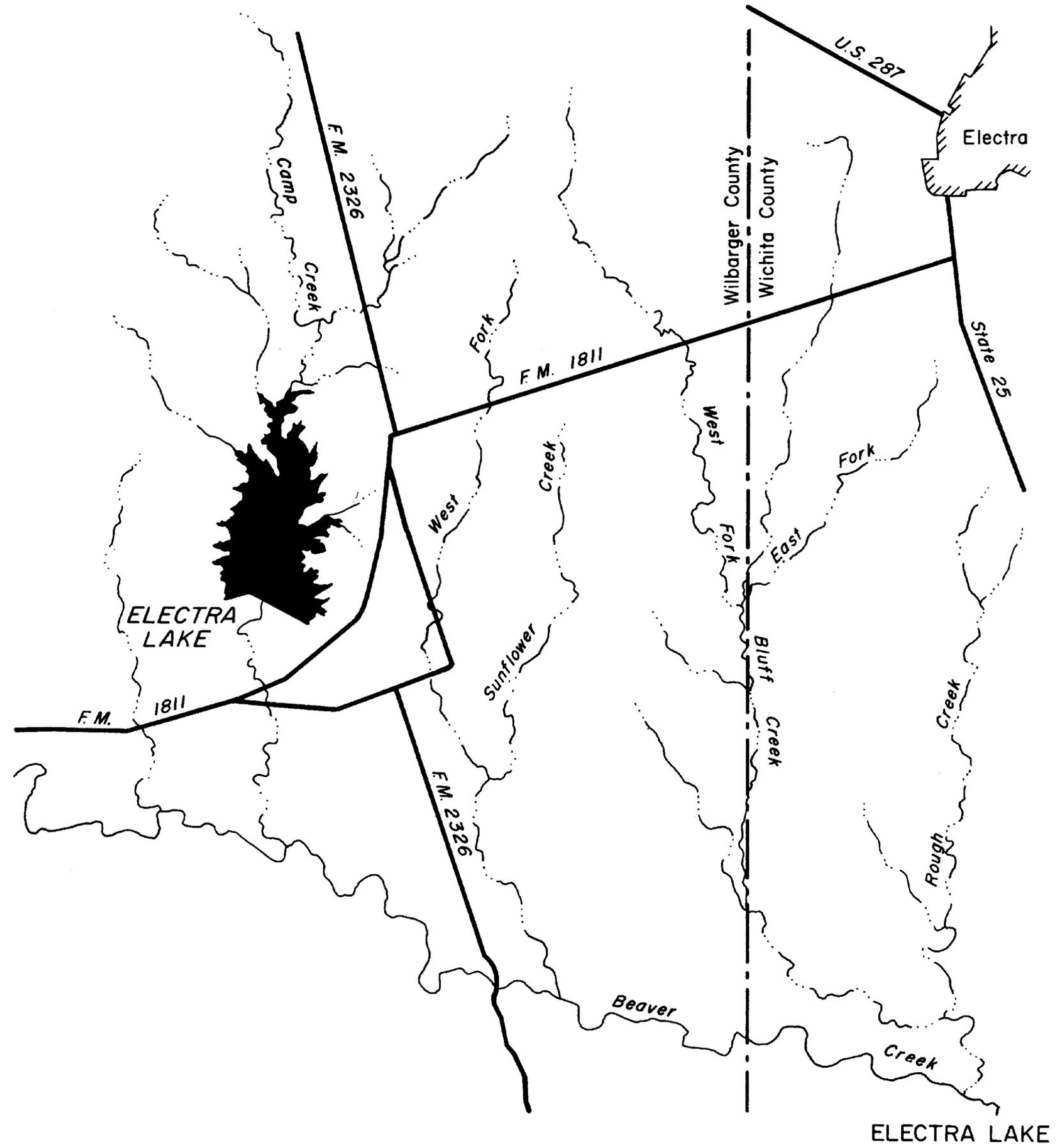
LOW FLOW OUTLET

Type 14-inch siphon
 Crest Unable to determine

RESERVOIR DATA

Feature	Elevation (ft. above msl)	Capacity (acre-feet)	Area (acres)
Top of dam	1120.4		
Max. design water surface	1120.3 (plans)	(not available)	
Top of conservation pool (plans)	1111.0	4180	320
(TWRC)	1110.0	8050	600

State Authorization: Permit No. 1509 (Application No. 1619) June 23, 1949 authorizes water rights to impound 3,650 acre-feet of water and annual use of 600 acre-feet. Texas Water Rights Commission during semi-annual inspections has found reason to question the capacity of the existing reservoir. Data listed above is the best data available, its accuracy questionable.



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