

Robert Lee Dam and E. V. Spence Reservoir

OWNER

Colorado River Municipal Water District.

ENGINEER (Design)

Freese, Nichols and Endress.

LOCATION

On Colorado River in Coke County, 2 miles west of Robert Lee.

DRAINAGE AREA

2,695 square miles (contributing).

DAM

Type Earthfill
 Length 21,500 ft
 Maximum height 140 ft
 Top width 21 ft

SPILLWAY (service)

Type Drop inlet to 28-ft concrete conduit
 Crest diameter 59 ft
 Crest elevation 1,878.0 ft above msl
 Control 12 gates, each 14.48 by 22 ft

SPILLWAY (emergency)

Type Cut through natural ground
 Length 3,200 ft
 Elevation 1,908.0 ft above msl
 Control None

OUTLET WORKS

Type Concrete pipe 5 ft diameter
 Invert elevation 1,815.85 ft above msl
 Control One 5 ft gated pipe and two 2 ft gated pipes to service spillway
 Lowest invert 1,811.97 ft above msl (24" service main)

STATE AUTHORIZATION

Permit No. 2179 (Application No. 2162A) September 1, 1965, to Colorado River Municipal Water District authorizes annual diversion:

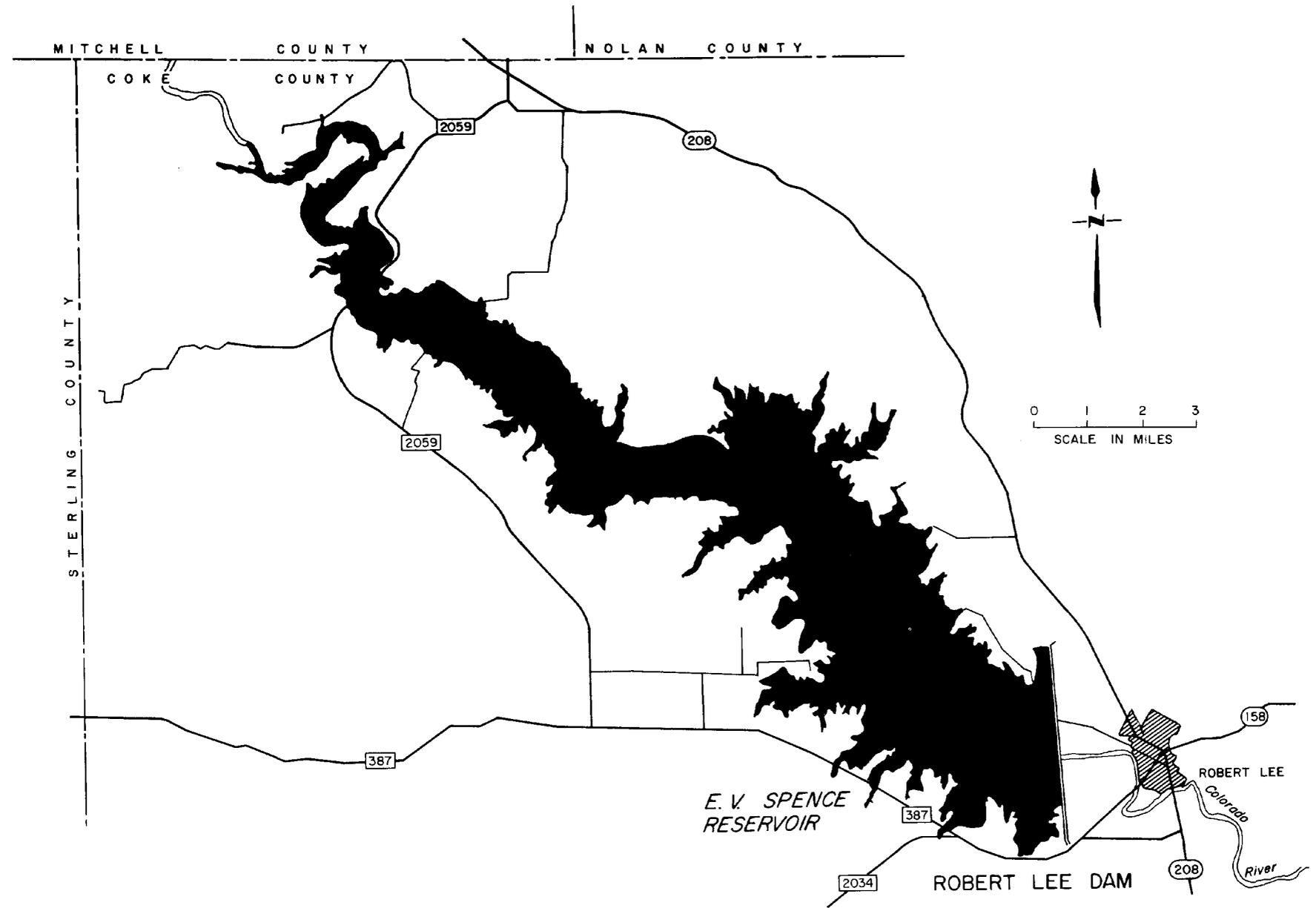
Municipal use	40,000 acre-feet
Mining use	8,000 acre-feet
Industrial use	2,000 acre-feet

RESERVOIR DATA (Based on 1962 survey by design engineers)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	1,928.0	-	-
Top of emergency spillway	1,908.0	664,000	18,000
Top of gates	1,900.0	520,000	15,200
Top of conservation storage space	1,898.0	488,760	14,950
Low flow outlet	1,815.85	4,000	0
Streambed	1,788.0	0	0
Usable conservation storage	-	484,760	-

GENERAL

Construction started	December 15, 1966
Impoundment of water began	December 15, 1968
Dam Completed	November 21, 1969
General contractor	Clement Bros. Co., Hickory, N.C.
Estimated cost of dam	\$9,315,000



ROBERT LEE DAM AND E.V. SPENCE RESERVOIR