Sanford Dam and Lake Meredith

OWNER

Built by the U.S. Bureau of Reclamation. Now owned by the Canadian River Municipal Water Authority.

ENGINEER (Design)

U.S. Bureau of Reclamation.

LOCATION

On the Canadian River in Hutchinson County, 10 miles northwest of Borger.

DRAINAGE AREA

20,220 square miles, of which 4,172 square miles is probably noncontributing.

DAM

Type	Earthfill
Length	6,410 ft
Maximum height	200± ft
Top width	40 ft

SPILLWAY (service)

Type	Circular concrete drop inlet
Control	None
Crest elevation	2,965.0 ft above msl
Outlet	Concrete conduit, 22-ft diameter

OUTLET WORKS (flood control)

Type	Concrete structure
Outlets	3 conduits, each 15.5-ft diameter
Control	3 radial gates, each 12 by 15 ft

OUTLET WORKS

Type	Concrete intake tower with gates at various elevations
Outlet	Concrete conduit, 12-ft diameter to gate chamber Concrete conduit, 12-ft diameter containing walkway and discharge pipes
Control	2 high pressure gates for channel releases each 5 by 5 ft 2 Butterfly valves, 72-inch and 48-inch diameter to aqueduct
Outlets	Concrete conduit, 12-ft diameter to gate chamber Concrete conduit, 16-ft diameter containing access walkway and discharge pipes
Discharge	Steel pipe, 102-inch diameter for river and aqueduct releases Steel pipe, 46-inch diameter for emergency aqueduct service.

AUTHORIZATION

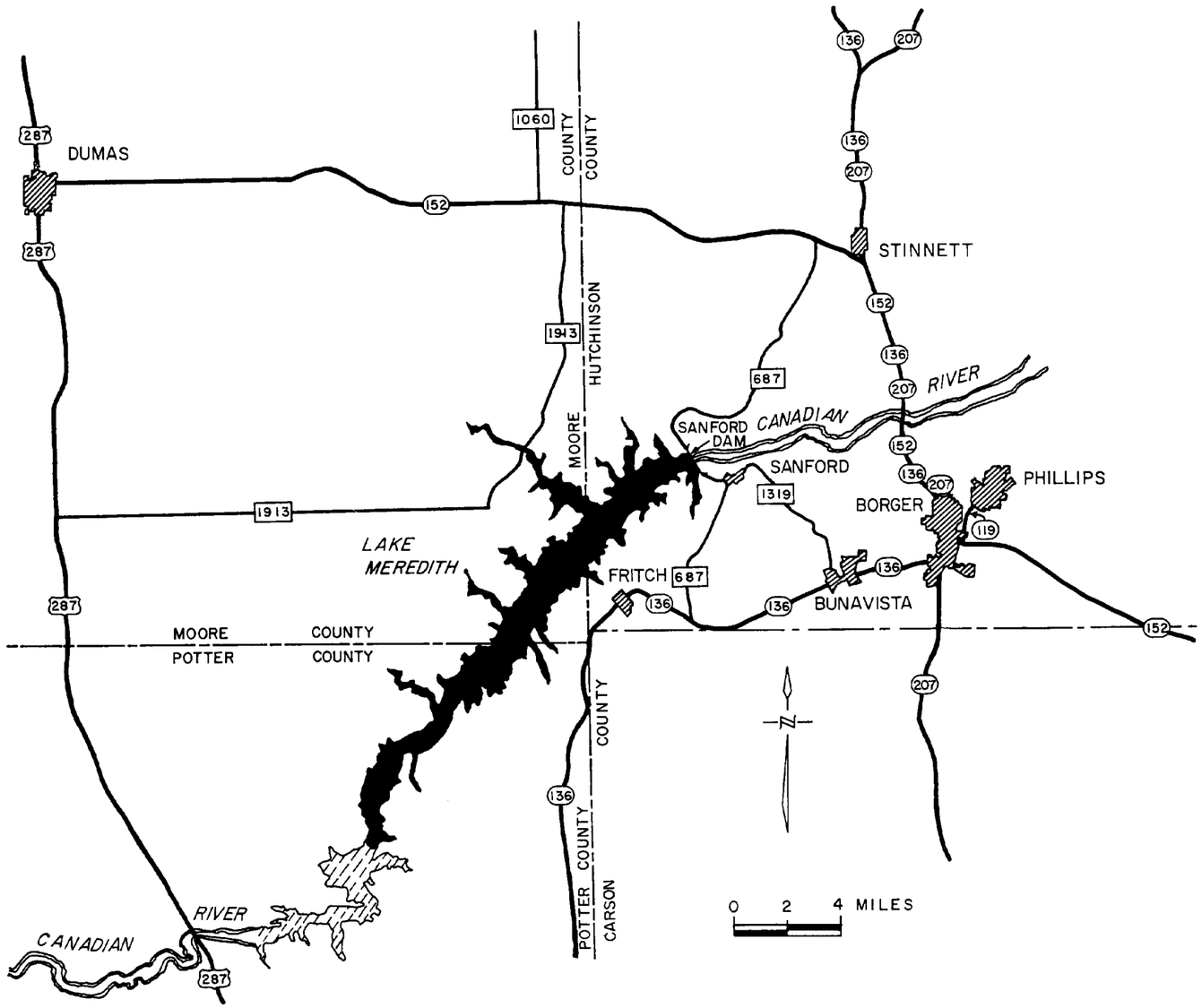
Federal: Public Law No. 898 passed by the second session of the 81st Congress, December 29, 1950.
State: Permit No. 1815 (Application No. 1957), April 11, 1956, to the Canadian River Municipal Water Authority authorized an annual diversion of 100,000 acre-feet of water for municipal use and 51,200 acre-feet for industrial purposes.

RESERVOIR DATA (Based on U.S. Bureau of Reclamation capacity curve)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	3,011.0	–	–
Top of design flood pool	3,004.9	2,434,200	30,465
Top of controlled storage	2,965.0	1,407,600	21,639
Top of conservation pool	2,936.5	864,400	16,504
Invert of flood control outlet works	2,894.0	313,700	9,455
Invert of lowest gate in outlet works	2,850.0	43,100	2,773
Usable storage	–	821,300	–

GENERAL

Construction started	March 11, 1962
Deliberate impoundment began	January 28, 1965
Construction completed	August 21, 1965
General contractor	H. B. Zachry Company
Estimated cost of the dam	$18,587,000



Information courtesy of the U.S. Bureau of Reclamation

SANFORD DAM AND LAKE MEREDITH