

Red Bluff Dam and Red Bluff Reservoir

OWNER

Red Bluff Water Power Control District.

ENGINEER (Design)

Vernon L. Sullivan.

LOCATION

On the Pecos River in Reeves and Loving Counties, 5 miles north of Orla.

DRAINAGE AREA

20,720 square miles.

DAM

Type Earthfill
 Length 9,200 ft
 Height 102 ft
 Top width 25 ft

SPILLWAY (emergency)

Location Right of dam
 Crest length 790 ft
 Crest elevation 2,844.7 ft above msl

SPILLWAY (service)

Type Concrete ogee
 Control 12 tainter gates, each 25 by 15 ft
 Crest elevation 2,826.7 ft above msl

OUTLET WORKS

Type Tower supplied by 2 conduits, each 7.5 by 9.0 ft
 Irrigation use 2 outlets controlled by 4-ft gate valves
 Power 2 penstocks controlled by butterfly valves

POWER GENERATION FEATURES

2 generating units with combined capacity of 2,300 kw.

STATE AUTHORIZATION

Permit No. 1217 (Application No. 1295) January 15, 1934, authorized a dam to impound 300,000 acre-feet of water and annual use of 300,000 acre-feet for hydroelectric power and irrigation.

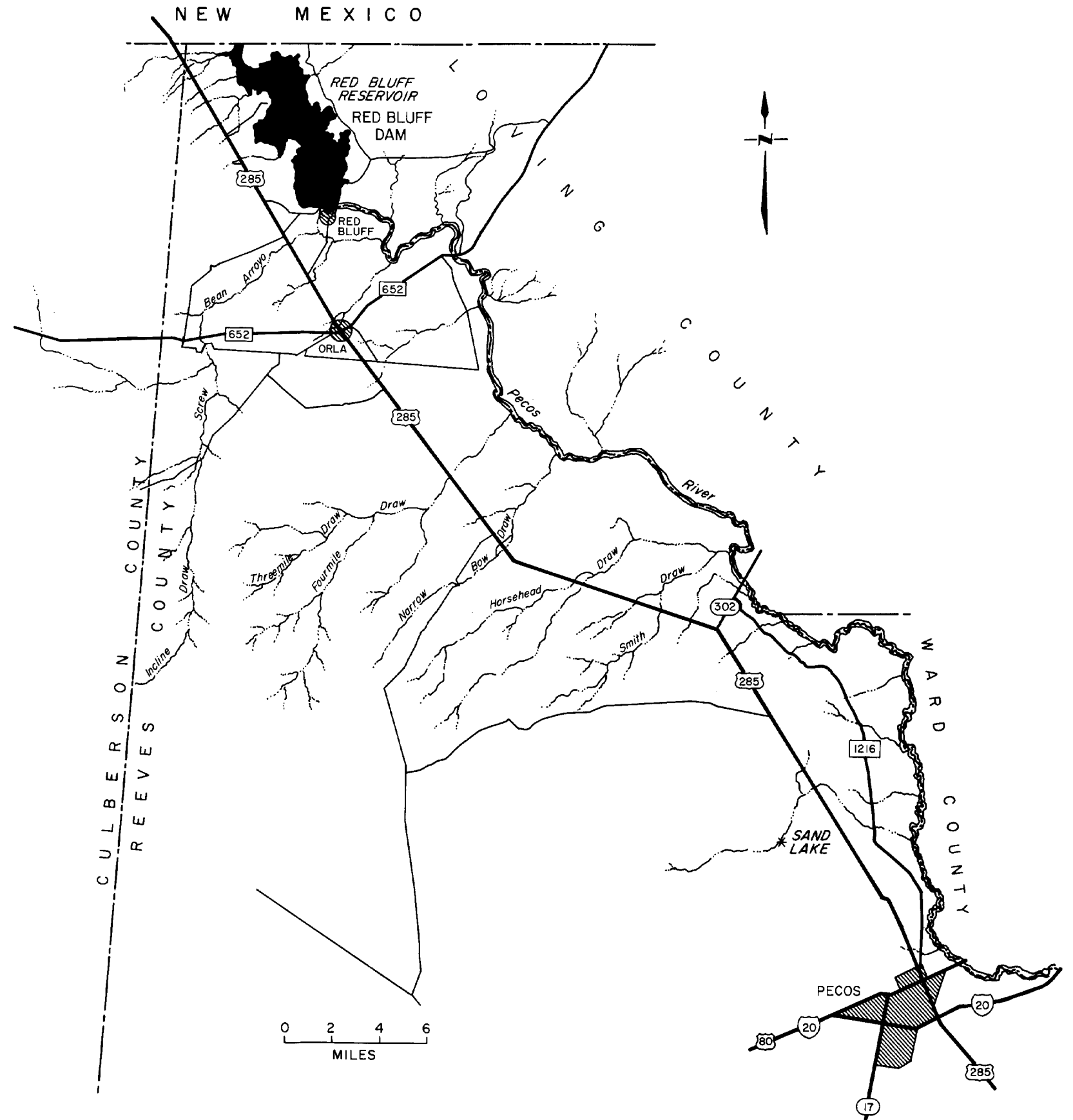
RESERVOIR DATA (Capacity based on U.S. Geological Survey 1925 topographic maps)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Crest emergency spillway	2,844.7	345,000	—
Top of tainter gates	2,841.7	310,000	11,700
Crest of service spillway	2,826.7	166,500	—
Invert of outlets	2,763.7	3,000	—
Usable storage	—	307,000	—

Some years the flow is low and no water is available for power generation.

GENERAL

Construction started November 1934
 Dam completed September 1936
 Impoundment of water began September 1936
 Power generation began June 6, 1937
 General contractor S. J. Groves and Sons
 Estimated cost of dam \$2,600,000



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