

FIGURE 1
YIELD COMPONENTS OF PROPERLY-CONSTRUCTED DOMESTIC WELL

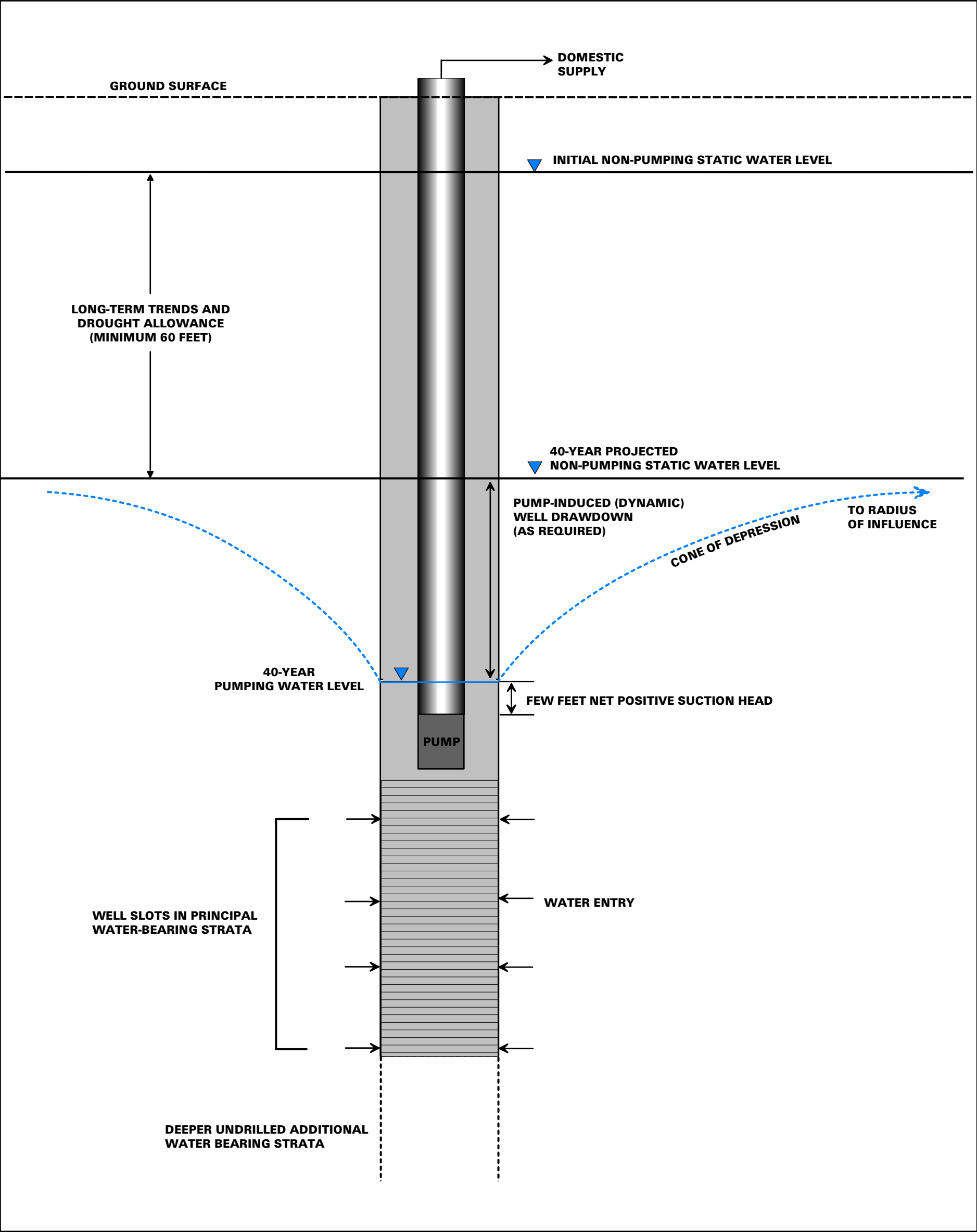
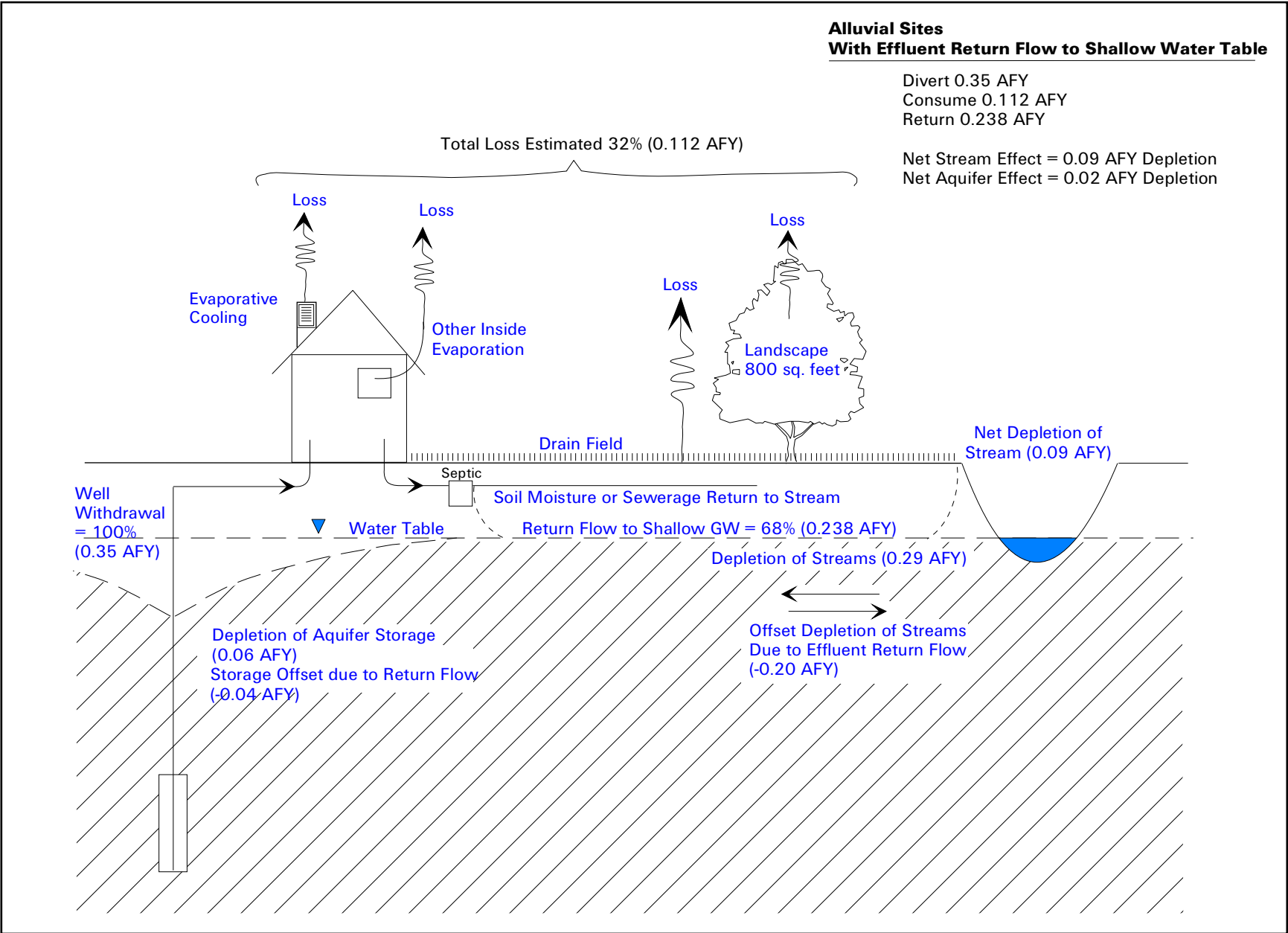
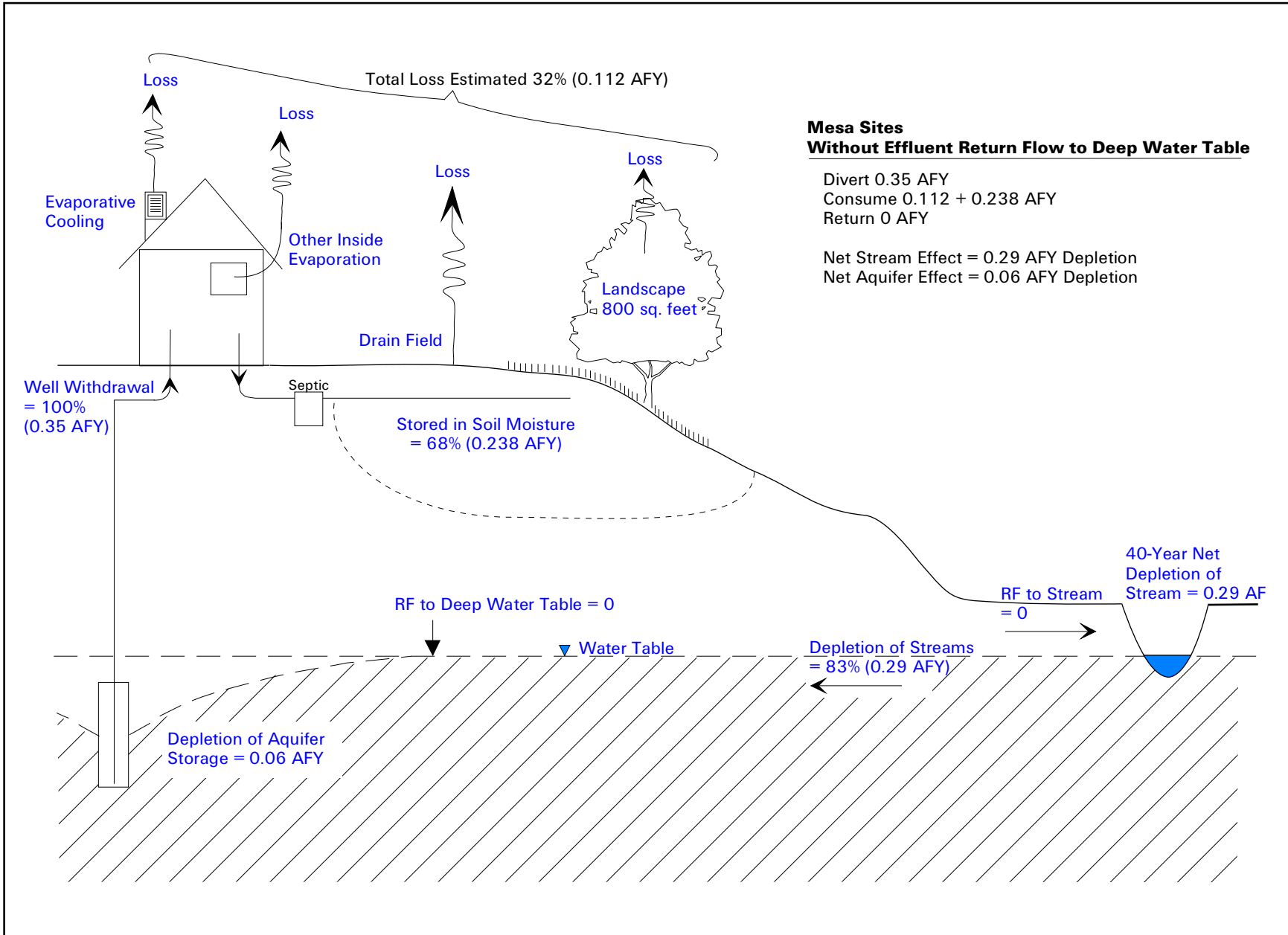


FIGURE 2
HOUSEHOLD WATER BALANCE AT SHALLOW AND DEEP WATER TABLE NEAR A STREAM



COMPONENTS OF DOMESTIC WATER ROUTING AT ALLUVIAL SITE (YEAR 2040)



COMPONENTS OF DOMESTIC WATER ROUTING AT MESA SITE (YEAR 2040)

FIGURE 3
RADII OF INFLUENCE OF TEST WELLS FOR
WATER AVAILABILITY IN PLACITAS AREA

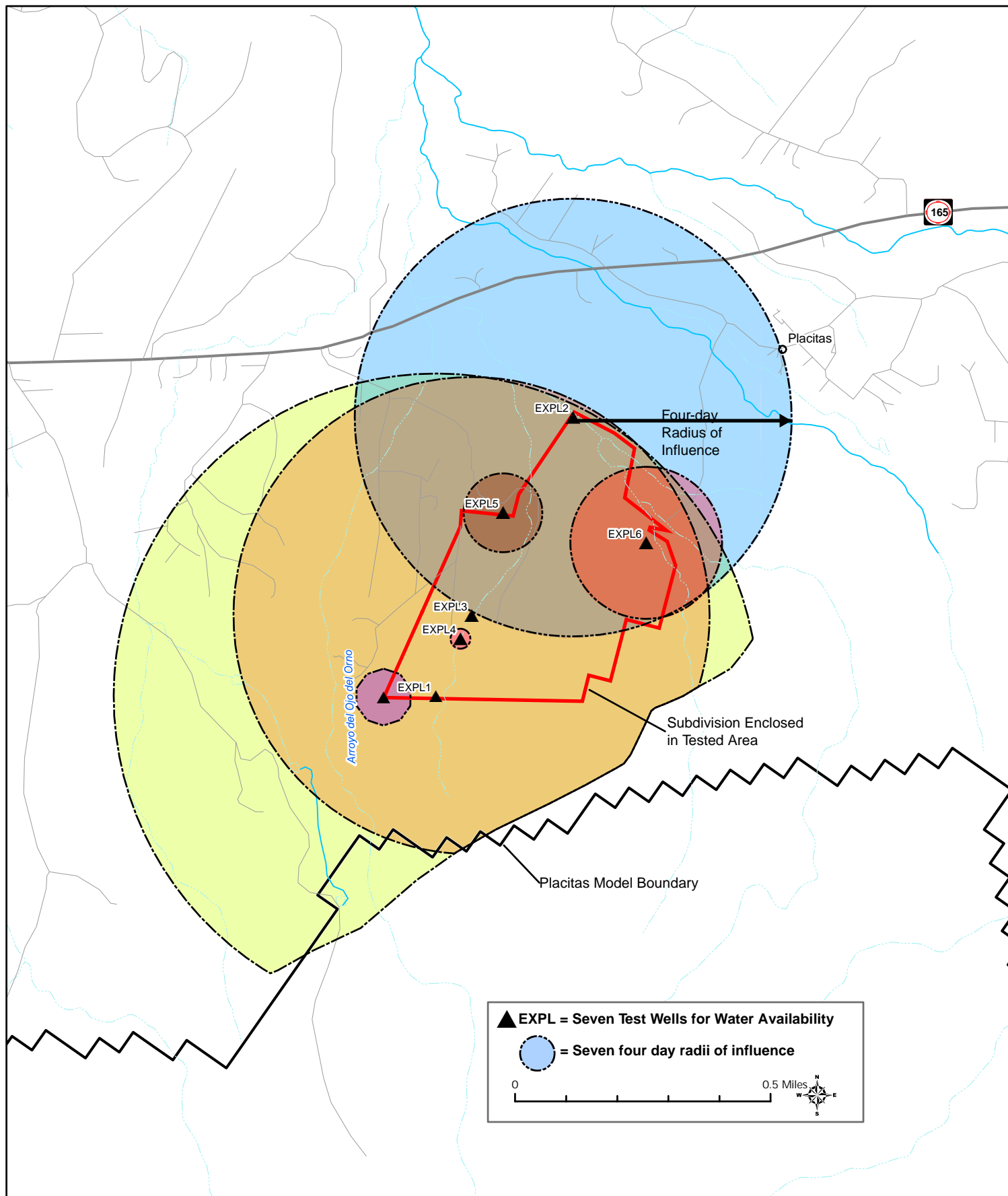


FIGURE 4
RECOVERY TREND IN GROUNDWATER SYSTEM WITHOUT
BOUNDARIES IN THE AREA OF INFLUENCE

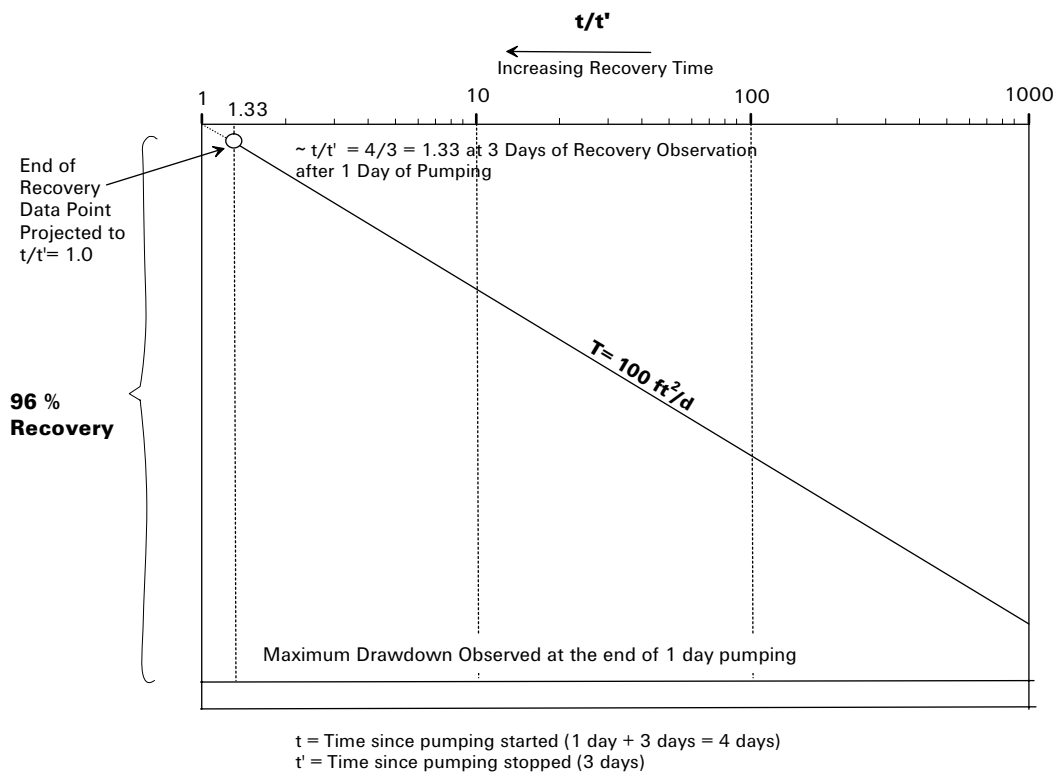
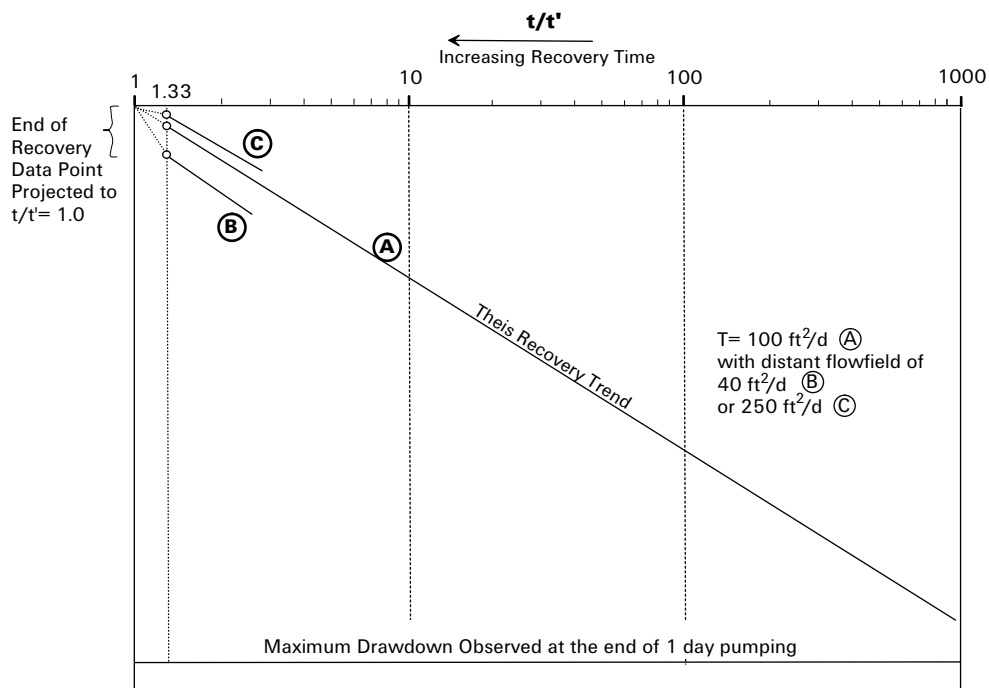


FIGURE 5
RECOVERY TRENDS IN GROUNDWATER SYSTEM WITH BOUNDARIES
IN AREA OF INFLUENCE

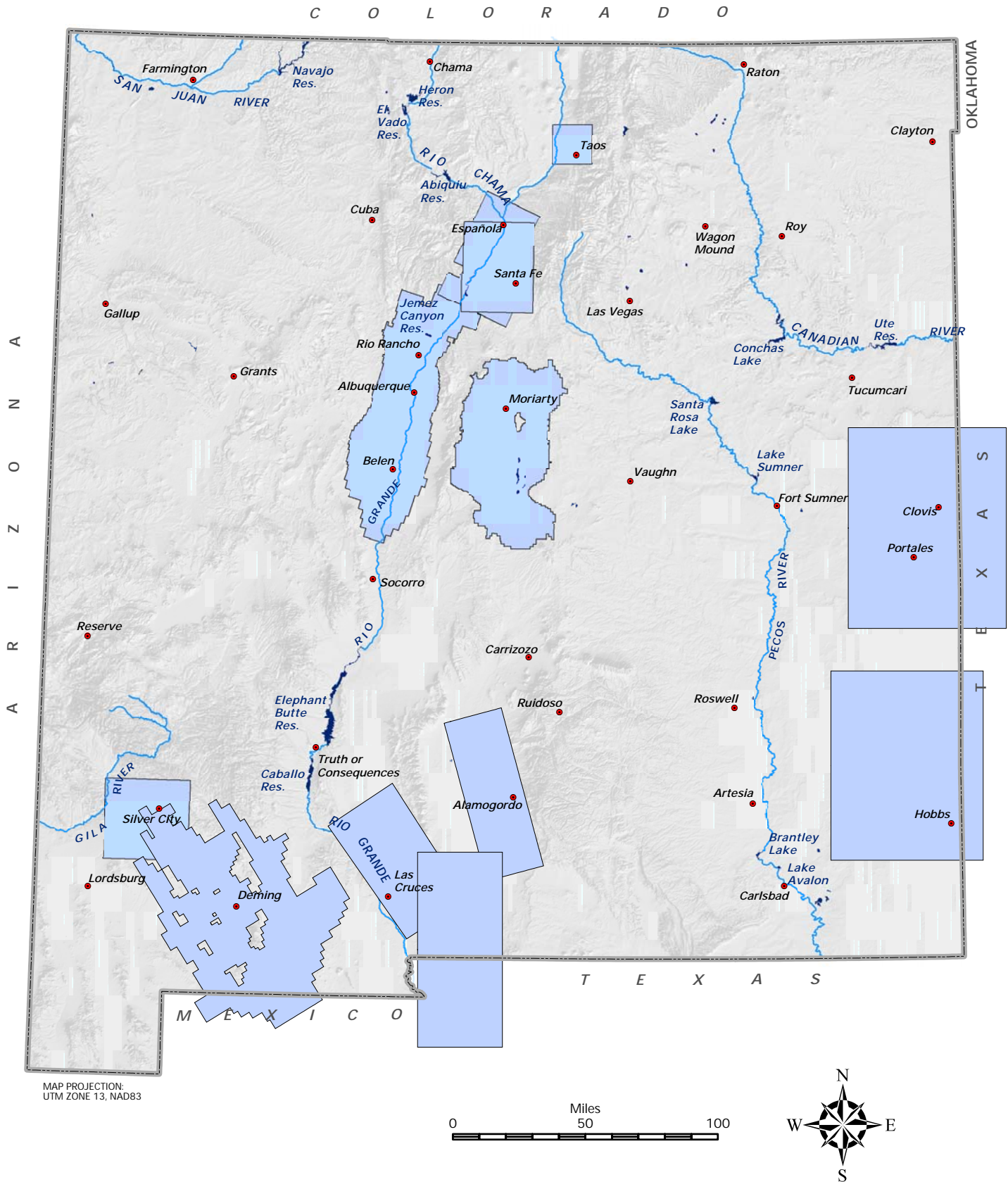


Trend A is the Theis recovery trend indicating standard projection to $t/t' = 0$

Trend B has the 3-day recovery measurement at a lesser water level indicating steeper slope and smaller transmissivity in projection to $t/t' = 0$

Trend C indicates a flatter slope and larger transmissivity in projection to $t/t' = 0$

FIGURE 6
 NEW MEXICO OFFICE OF THE STATE ENGINEER
 ADMINISTRATIVE MODELS FOR 17 AREAS



Note: Surface water models also are established for the Rio Grande, Pecos and San Juan Rivers.

FIGURE 7
DOMESTIC WELLS AND AQUIFERS IN NEW MEXICO

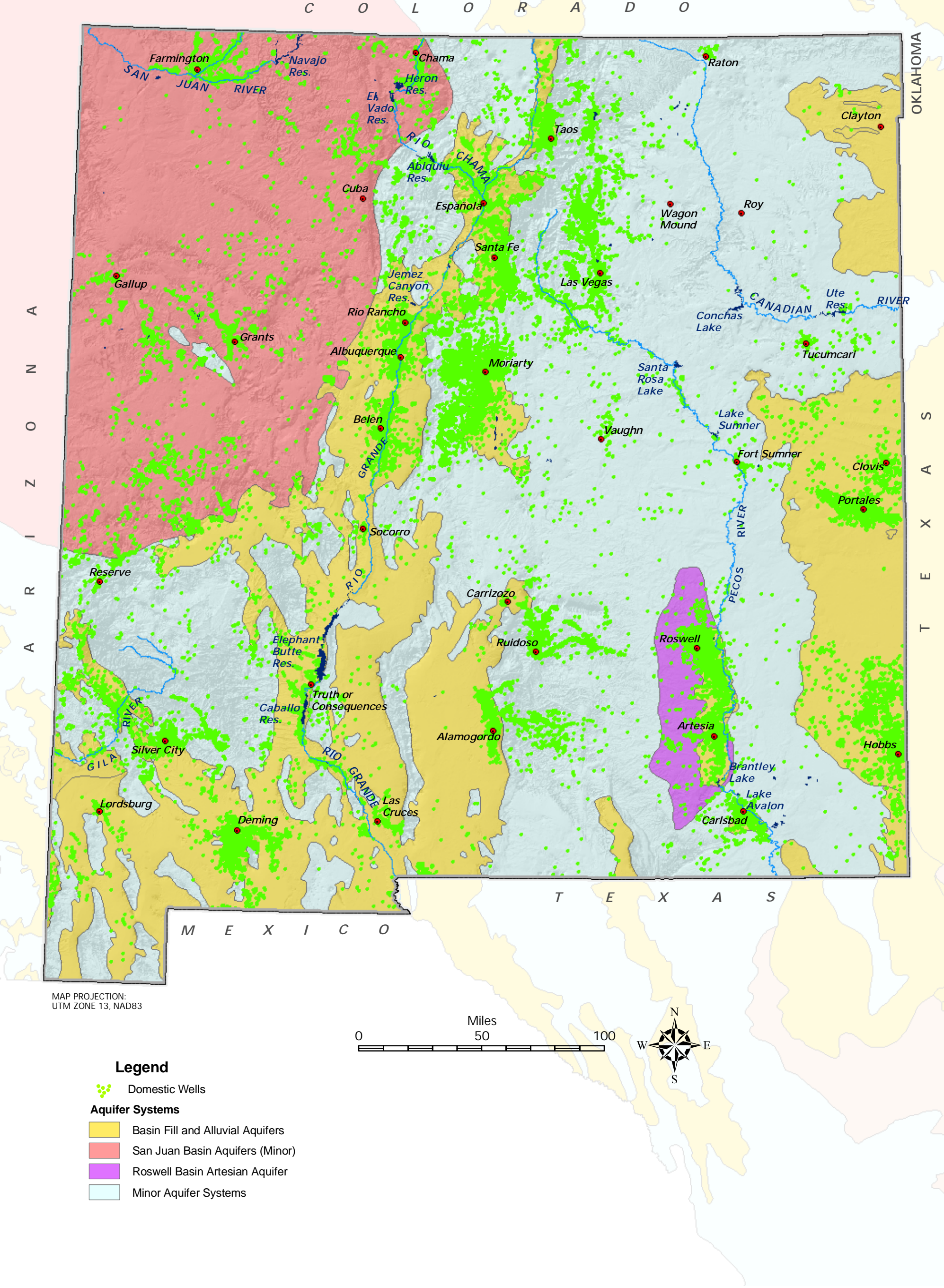
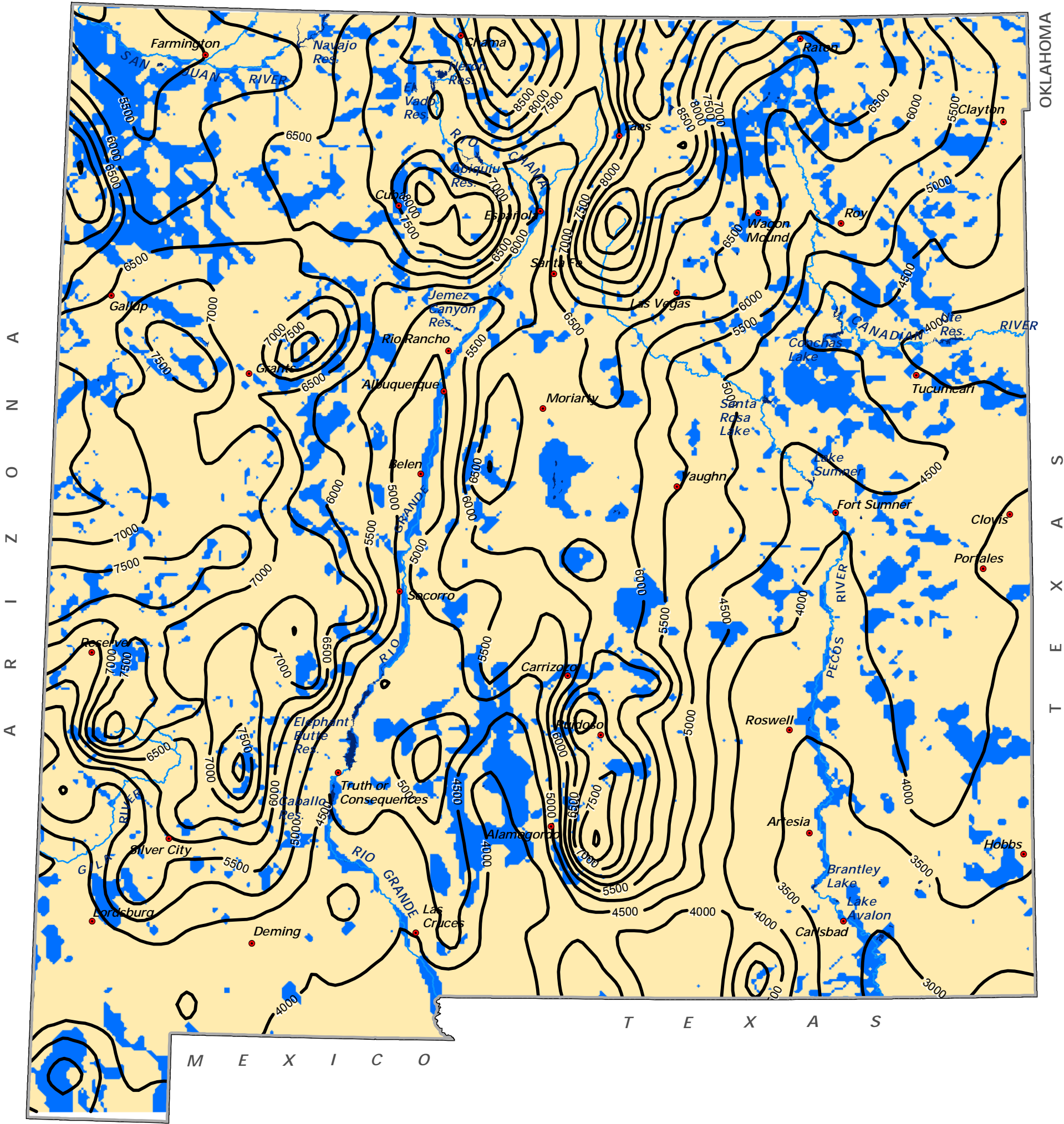


FIGURE 8
WATER TABLE ELEVATION AND DEPTH IN NEW MEXICO

C O L O R A D O



MAP PROJECTION:
UTM ZONE 13, NAD83

Legend

Water Table Depth (feet)

< 50 feet

Water Table Contours (feet)

5000

0 50 100
Miles

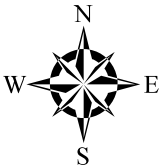


FIGURE 9
GROWTH OF DOMESTIC WELL PERMITS AND POPULATION
IN NEW MEXICO

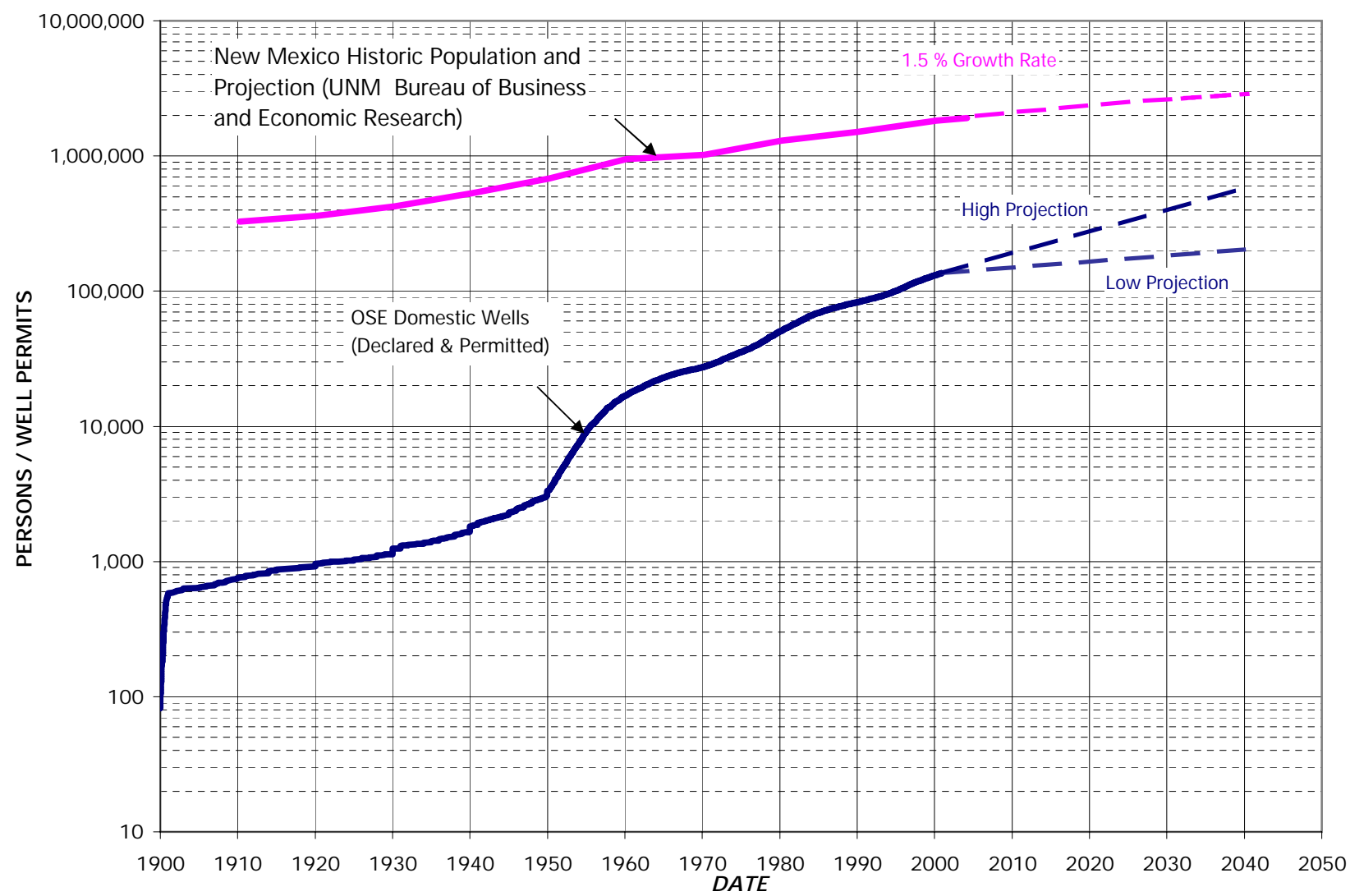


FIGURE 10
DISTRIBUTION OF PROPERLY CONSTRUCTED WELLS IN NEW MEXICO

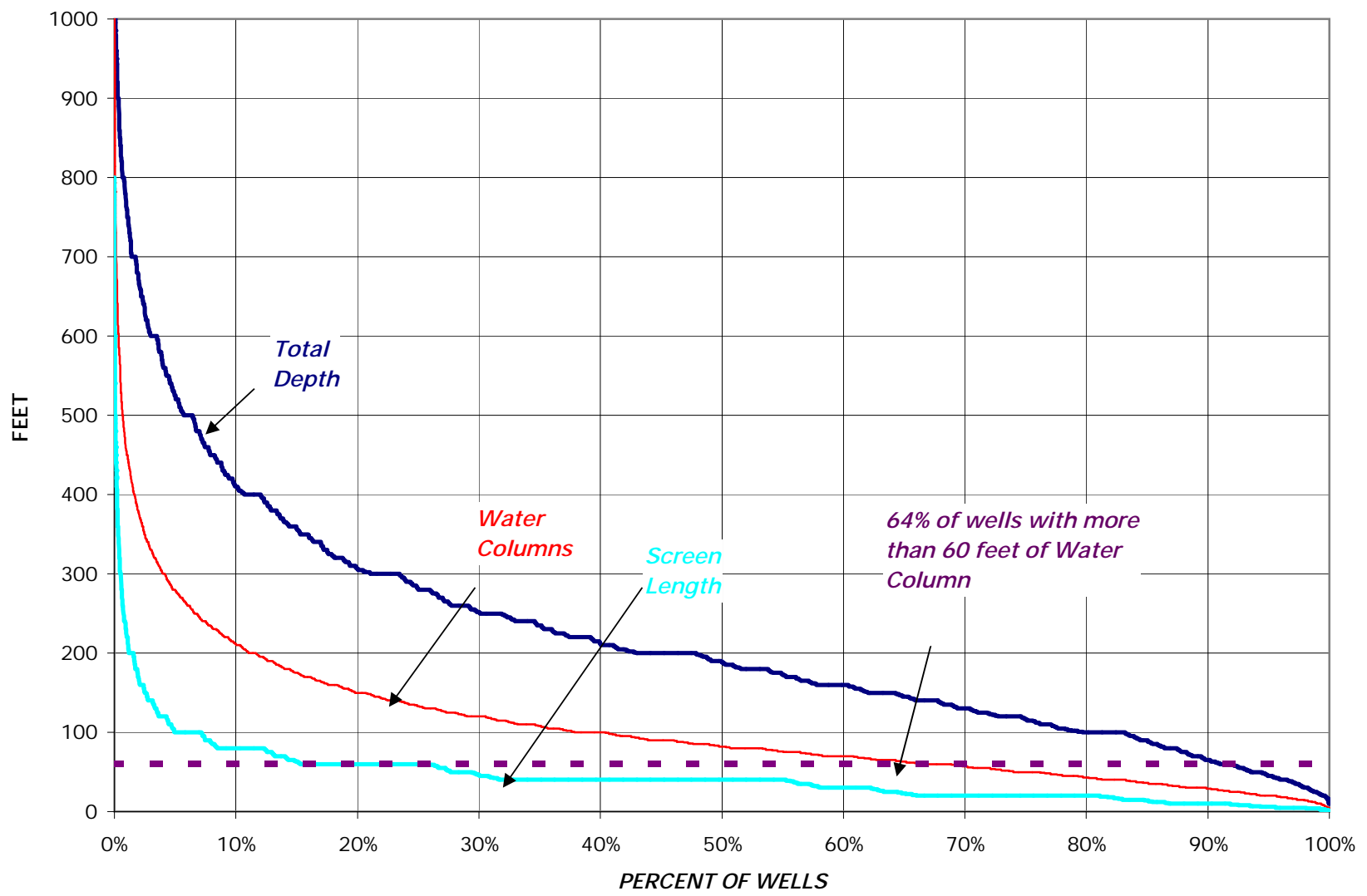
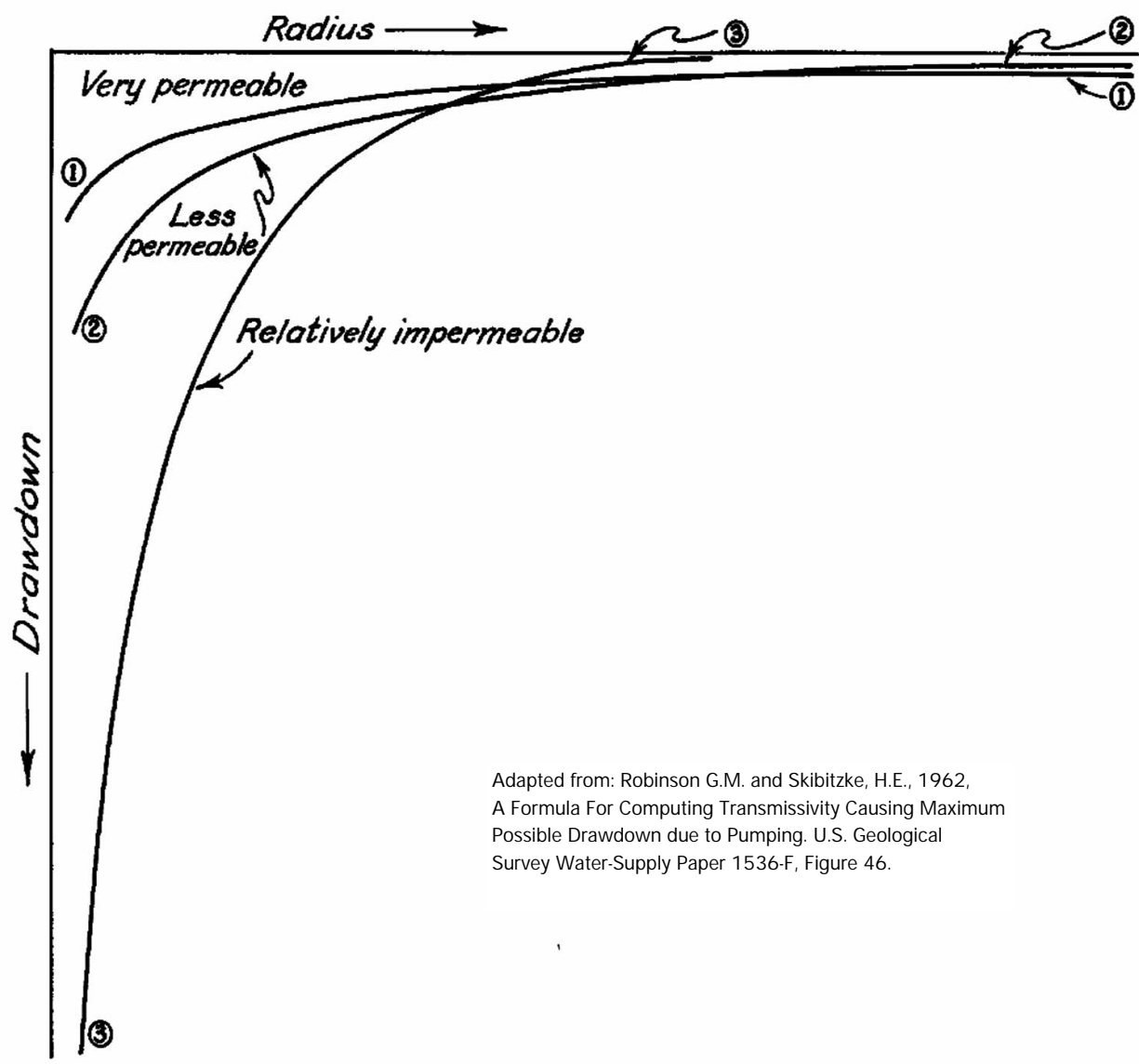


FIGURE 11
MAXIMUM POSSIBLE DRAWDOWN FROM PUMPING



Adapted from: Robinson G.M. and Skibitzke, H.E., 1962,
A Formula For Computing Transmissivity Causing Maximum
Possible Drawdown due to Pumping. U.S. Geological
Survey Water-Supply Paper 1536-F, Figure 46.

FIGURE 12
HYDROLOGIC LIMIT ON MAXIMUM INTERFERENCE BETWEEN DOMESTIC WELLS

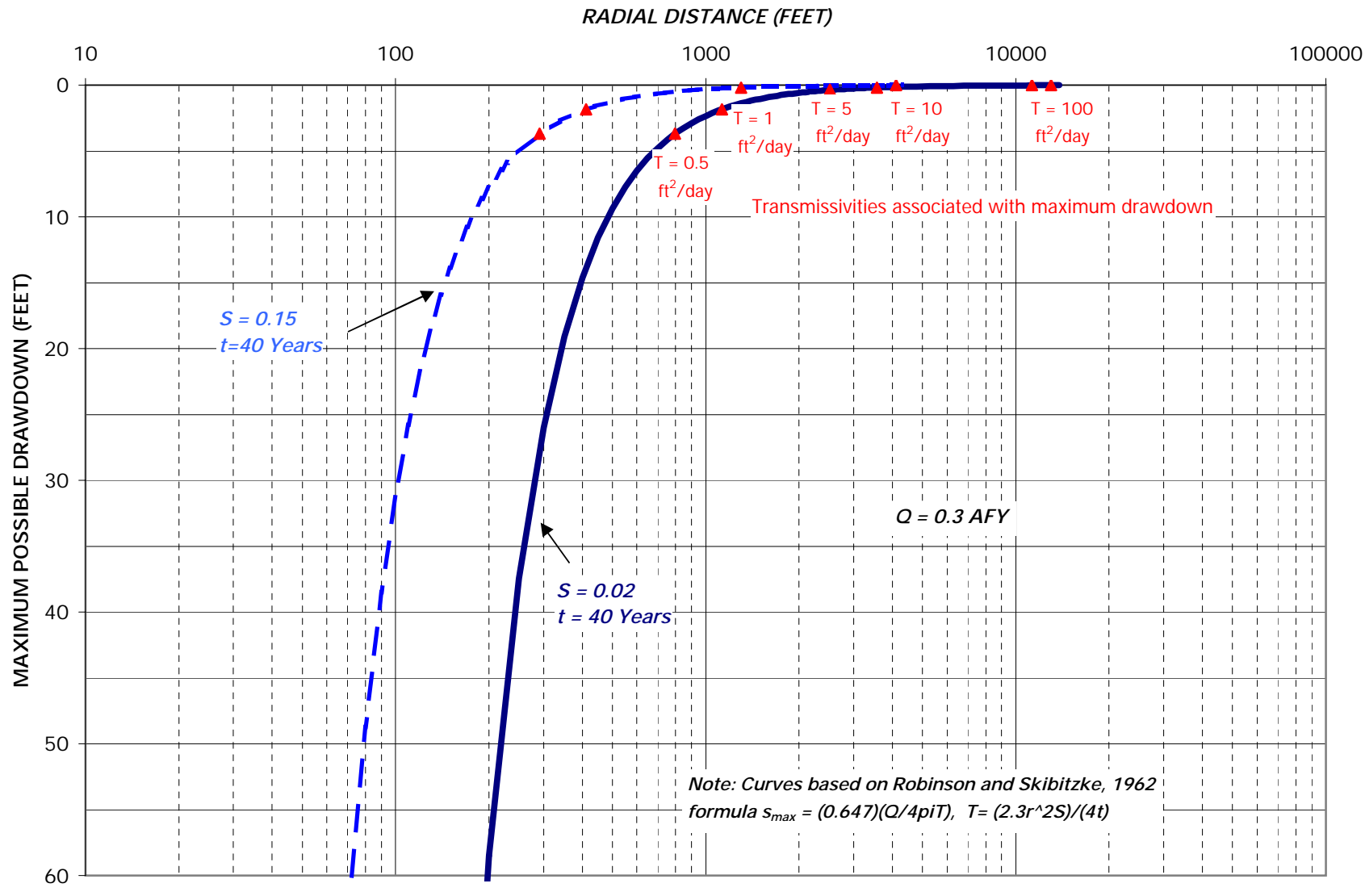


FIGURE 13
40-YEAR WATER TABLE DRAWDOWN IMPACT OF
DOMESTIC WELLS IN THREE MODELED BASINS

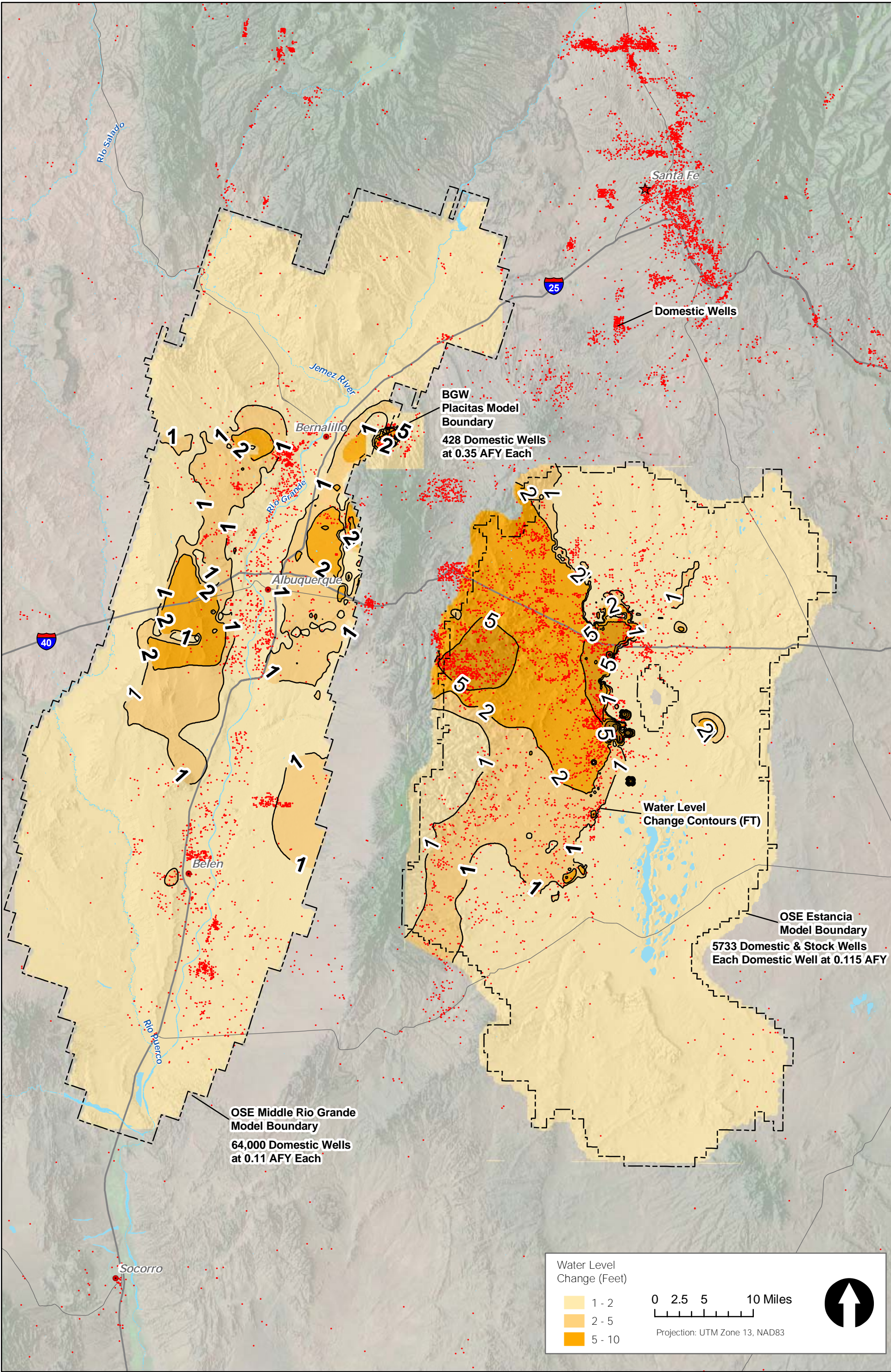


FIGURE 14
LAYOUT OF PERENNIAL STREAMS AND GROWTH OF DOMESTIC WELL DENSITY TO YEAR 2040
IN STATEWIDE MODFLOW MODEL

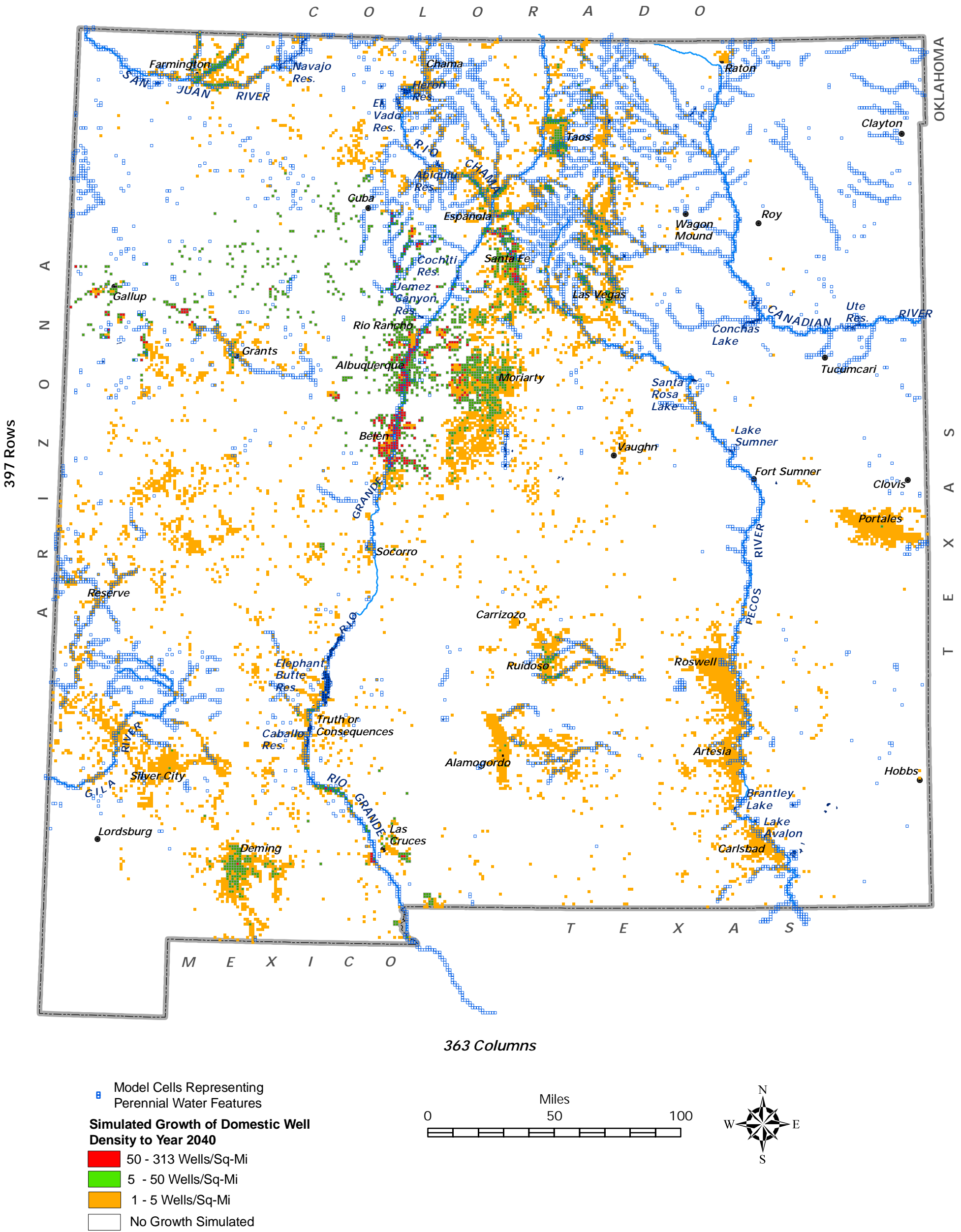


FIGURE 15
40-YEAR FUTURE DRAWDOWN IMPACT OF CURTAILING GROWTH
OF WELLS IN NEW MEXICO

C O L O R A D O



Water Level
Change (Feet)

- < 2
- 2 - 5
- 5 - 13.4

