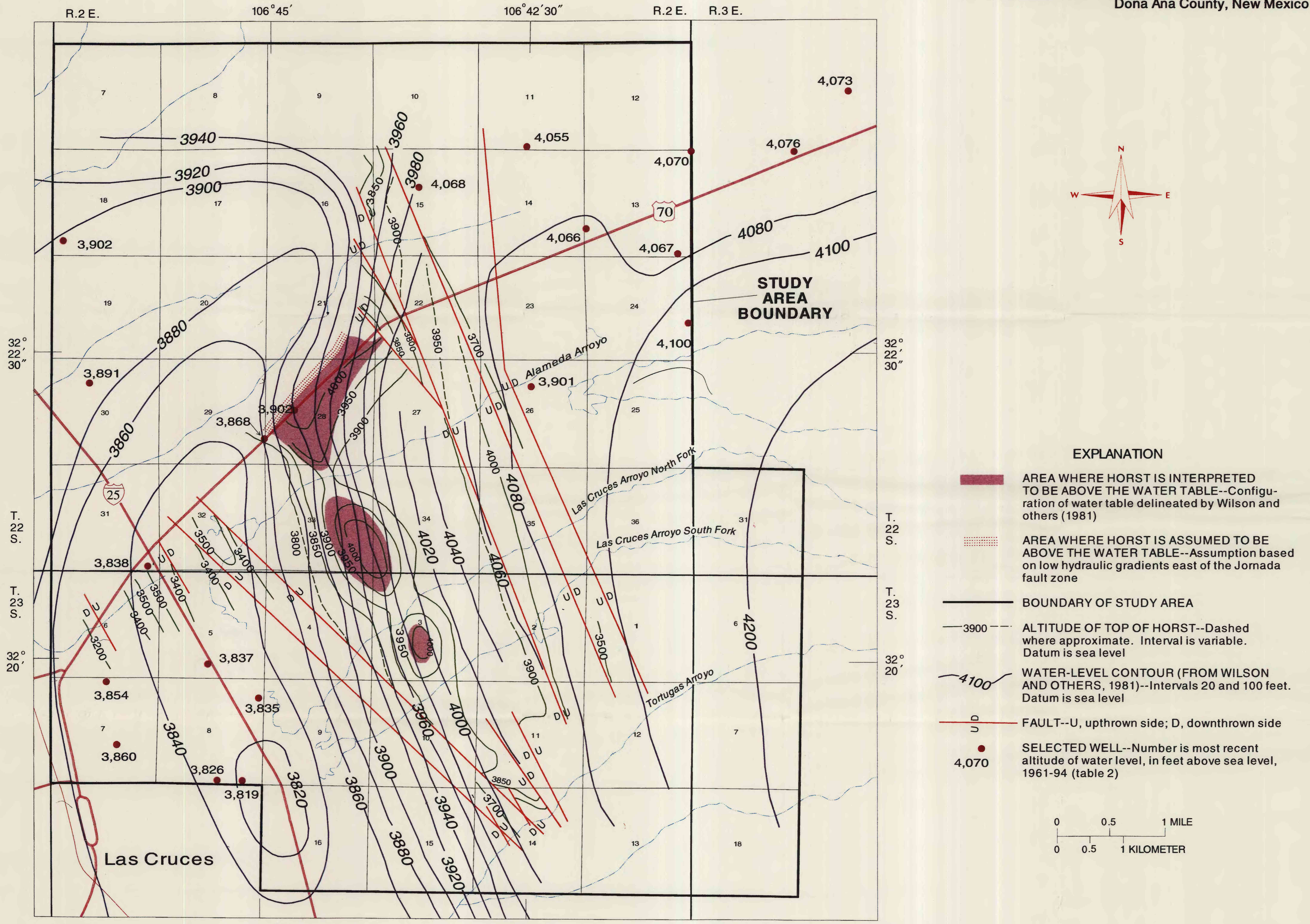
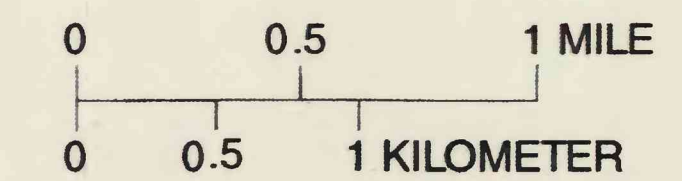


Woodward, D.G., and Myers, R.G., Seismic investigation of the buried horst between the Jornada del Muerto and Mesilla ground-water basins near Las Cruces, Doña Ana County, New Mexico



EXPLANATION

- AREA WHERE HORST IS INTERPRETED TO BE ABOVE THE WATER TABLE--Configuration of water table delineated by Wilson and others (1981)
- AREA WHERE HORST IS ASSUMED TO BE ABOVE THE WATER TABLE--Assumption based on low hydraulic gradients east of the Jornada fault zone
- BOUNDARY OF STUDY AREA
- 3900 ALTITUDE OF TOP OF HORST--Dashed where approximate. Interval is variable. Datum is sea level
- 4100 WATER-LEVEL CONTOUR (FROM WILSON AND OTHERS, 1981)--Intervals 20 and 100 feet. Datum is sea level
- FAULT--U, upthrown side; D, downthrown side
- 4,070 SELECTED WELL--Number is most recent altitude of water level, in feet above sea level, 1961-94 (table 2)



Base compiled from U.S. Geological Survey digital data 1:24,000, 1994. Lambert Conformal Conic projection. Standard parallels 33° and 45°, central meridian -106°00'

GIS and graphics by Roger A. Durall, U.S. Geological Survey, Albuquerque, New Mexico

**MAP SHOWING ALTITUDE OF THE WATER TABLE, AS DELINEATED BY WILSON AND OTHERS (1981), AND INTERPRETED ALTITUDE OF THE TOP OF THE JORNADA HORST**

by  
Dennis G. Woodward and Robert G. Myers  
1997