Plate 3. Elevation of the top of the Lower Rio Rancho hydrostratigraphic unit.

Daniel J. Koning

106°51'0"W
106°45'30"W
106°40'0"W
106°34'30"W
35°24'0"N
35°18'30"N
35°13'0"N

San Ysidro fault
Zia fault
Doval fault
Coronado-Alameda fault
Ziana horst
Tamaya fault
San Felipe fault zone, Santa Ana section
US 550
NM 528
Unser Blvd
Northern Blvd
Southern Blvd
Paseo del Norte Blvd
Universe Blvd
Paradise Blvd
Coors Blvd
Alameda Blvd
Corrales Rd

Davis Petroleum Tamara #1-Y
Rio Rancho Utilities 15
Shell Santa Fe Pacific #1
Rio Rancho Utilities 18
Santa Ana Pueblo Range Well 17
Santa Ana Pueblo Soccer Field #1
Santa Ana Pueblo Golf Course
Bernalillo Well 4
Santa Ana Pueblo Well 1
Rio Rancho Utilities 11
Rio Rancho Utilities 12
Santa Ana Pueblo Well 2
Phoenix Road piezometer
Shell Santa Fe Pacific #3
Rio Rancho Utilities 9
Rio Rancho Utilities 23
Rio Rancho Utilities 16P
Rio Rancho Utilities 20
Rio Rancho Utilities 22
Rio Rancho Utilities 13R
Rio Rancho Utilities 13
Rio Rancho Utilities 7
Rio Rancho ASR direct injection
Rio Rancho Utilities 10A
Rio Rancho Utilities 8
Rio Rancho Utilities 6A
Rio Rancho Utilities 10
Rio Rancho Utilities 14
Rio Rancho Utilities 21
Rio Rancho Utilities 19
Lincoln Middle School piezometer
Rio Rancho Utilities 4
Rio Rancho Utilities 3
Rio Rancho Utilities 5
Rio Rancho Utilities 17
Rio Rancho Utilities 2
Intel Production Well 1
Rio Rancho Utilities 1
Intel Production Well 2
Black Ranch test well
Intel Production Well 3
Hunters Run Park piezometer
Paradise Road piezometer

Legend

- Wells used in hydrostratigraphic model
- Study area boundary

Structural Domain
- Ziana horst

Highways and roads
- U.S. Hwy
- State Hwy
- Other roads

Major Faults
(ball and bar on downthrown side)
- Normal fault
- Buried fault

Elevation of Lower Rio Rancho HSU top
Elevation (ft-asl)
- 6,400 - 6,606
- 6,000 - 6,400
- 5,600 - 6,000
- 5,200 - 5,600
- 4,800 - 5,200
- 4,400 - 4,800
- 4,000 - 4,400
- 3,600 - 4,000
- 3,200 - 3,600
- 2,800 - 3,200
- 2,400 - 2,800
- 2,000 - 2,400
- 1,600 - 2,000
- 1,200 - 1,600
- 800 - 1,200
- 400 - 800
- 0 - 400
- -500 - 0
- -1,000 - -500
- -1,267 - -1,000

Structural contours (model input)
- Structural contour corresponds to land-surface contour
- Subsurface structural contour
- Subsurface structural contour, uncertain
- Structural contour along fault plane

Relative Accuracy
- clear — Moderate to high
- Low

N
W
E
S

1:72,000

0 4 8 12 16 20 Kilometers

0 2 4 6 8 10 Miles

North American Datum of 1983 (NAD83, zone 13N)
Projection: Transverse Mercator

Disclaimer

Map features and related GIS data are provided to aid in the understanding of the geologic and hydrologic resources of the northwestern Albuquerque Basin, New Mexico. A general vertical uncertainty of at least hundreds of feet should be assumed (for elevation and depths of a unit), and greater than several hundred feet in the southeast corner of the study area. Note that there are limitations for all data, particularly when subsurface interpretation is included, or when data are aggregated with other data that may have been collected at different times, by different agencies or people, and for different purposes. All geospatial datasets are inherently scale-dependent and may falsely imply relationships with other data or a false level of accuracy when zoomed-in beyond the scale of analysis (1:72,000). Accordingly, users of these data should use them with caution. Also, site-specific conditions should be verified, especially for legally binding decisions. Although we strive to present current and accurate information, data are provided without guarantee of any kind. Data provided online are also subject to change, deletion, or being moved without notice at any time and should not be solely relied on for any critical application. Not all data have been rigorously reviewed before posting, and any opinions expressed do not necessarily reflect the official position of the New Mexico Bureau of Geology and Mineral Resources, New Mexico Tech, or the State of New Mexico. No warranty, expressed or implied, is made regarding the accuracy or utility of the data for general or scientific purposes.

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Acknowledgment of or reference to these data would be appreciated in publications, maps or other datasets derived from these data. Suggested citation:

"Koning, D.J., Martin, L., Zimmerer, M., Mamer, E., Doherty, A., and Sturgis, L., 2025, Investigation of hydrostratigraphic units of the Santa Fe Group aquifer in the northwestern Albuquerque Basin, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Open-file Report 635, scale 1:72,000."