Plate 4. Elevation of the top of the Zia hydrostratigraphic unit.

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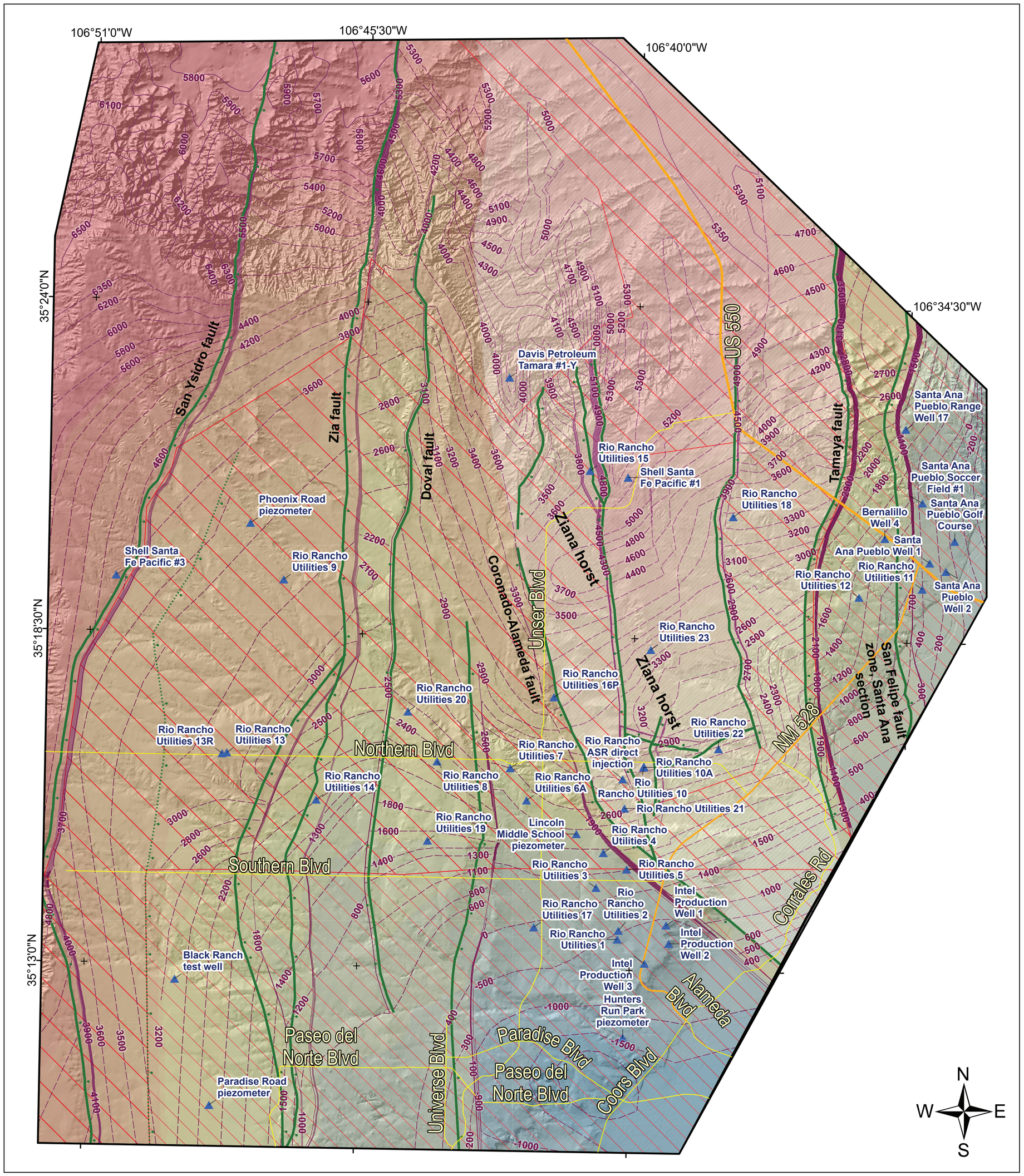

Legend

- 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 Zia HSU top
(ft above mean sea level)

- 5,500 - 6,000
- 5,000 - 5,500
- 4,500 - 5,000
- 4,000 - 4,500
- 3,500 - 4,000
- 3,000 - 3,500
- 2,500 - 3,000
- 2,000 - 2,500
- 1,500 - 2,000
- 1,000 - 1,500
- 500 - 1,000
- 0 - 500
- -499 - 0
- -999 - -500
- -1,499 - -1,000
- -2,238 - -1,500

Relative accuracy

- clear — High
- Low
- Moderately low

Structural contours (model input)

- Subsurface structural contour, relatively accurate
- Subsurface structural contour, approximate
- Subsurface structural contour, uncertain
- Structural contour along fault plane

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."

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