GEOLOGIC MAP OF THE BOISE CITY 3° X 6° QUADRANGLE, CIMARRON AND TEXAS COUNTIES, OKLAHOMA
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Cartography by M. Sue Fritchie
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SYMBOLS

DESCRIPTION OF UNITS

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- CONFORMITY

- HETEROCLITIC SHALE, CLAY, AND SILT: bedded, greenish-gray; sandstone is yellowish brown with variegated speckles; limestone is gray; thickness less than 1.5 meters (5 feet)

- EOLIAN SAND—Fine-grained sand, some with eolian cross-bedding; upper part, consists of dark gray marine shale with abundant Gryphaea; thickness up to 30 meters (100 feet) or more, average thickness 12 meters (40 feet)

- COVER SAND—Sand and silt: occurs in sheets, locally modified by surface wash; thickness up to 46 meters (150 feet)

- MAGNETITE—Dark green, opaque, magnetic material

- LABRADORITE—Light green, thin- to medium-grained rock

- RAYMOND SHALE—Red to dark yellow and thin-bedded, locally conglomeratic; conglomerate consists of quartzite and schist; thickness up to 240 meters (800 feet) in small synclines

- KANSAS SHALE—Gray, fine-grained, thin-bedded, moderately fossiliferous; thickness up to 105 meters (340 feet) in small synclines

- GRIFFIN SHALE—Gray, fine-grained, thin-bedded, moderately fossiliferous; thickness up to 105 meters (340 feet) in small synclines

- ALLUVIUM—Sand and silt: sand deposits are fine- to coarse-grained quartz, quartzose, or arkosic; average thickness 12 meters (40 feet); lower division is sandstone, quartzitic, ferrunginous, pink, gray, and local conglomerate; conglomerate consists of quartzite and schist; thickness less than 1.7 meters (6 feet)

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- S2—Quartzite, arkose, and sandstone: beds of quartzite and arkose; thickness up to 15 meters (50 feet)

- SANDSTONES AND CONGLOMERATES—Sandstones or conglomerates; thickness less than 1.1 meters (3.6 feet)

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- UNCONFORMITY

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- FOSSIL MEGAVARISCOLLUS—Variable size, fossiliferous species

- FULLERTON SHALE—Gray, fine-grained, thin-bedded, locally conglomeratic; thickness up to 30 meters (100 feet)

- GRANODIORITE—Fine-grained, small olivine phenocrysts comprise plagioclase, quartz, and minor biotite; compact to vesicular; gray to red

- FISH SHOE SHALE—Gray, fine-grained, thin-bedded, moderately fossiliferous; thickness up to 27 meters (90 feet)

- EOCENE CORRELATION OF UNITS

- ODESSA—Shale, siltstone, sandstone, and conglomerate; thickness up to 12 meters (40 feet)

- MEGAVARISCOLLUS—Variable size, fossiliferous species

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- protester:KILLISEN WASH—Thinly bedded, light-colored; thickness 5 meters (15 feet)

- SHEEP PEN SANDSTONE—Even bedded, brown to yellowish-brown; thickness 5 meters (15 feet)

- FOLSOM—Gray, fine-grained, thin-bedded, moderately fossiliferous; thickness up to 30 meters (100 feet)