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EXPLANATION

Unconsolidated alluvial deposits  
Alluvial-fan deposits  
Central valley alluvium  
Playa deposits  
Poorly sorted fanglomerate and unsorted mudflow breccia, consisting of boulders, gravel, sand, and silt, underlie fans, aprons, and fill in small reentrant valleys, where saturated poorly to moderately water yielding

Older fan deposits  
Poorly sorted, crudely stratified fanglomerate and mudflow breccia, consisting of boulders, gravel, sand, and silt, locally partly consolidated, moderately to extensively dissected, where saturated probably poorly water yielding

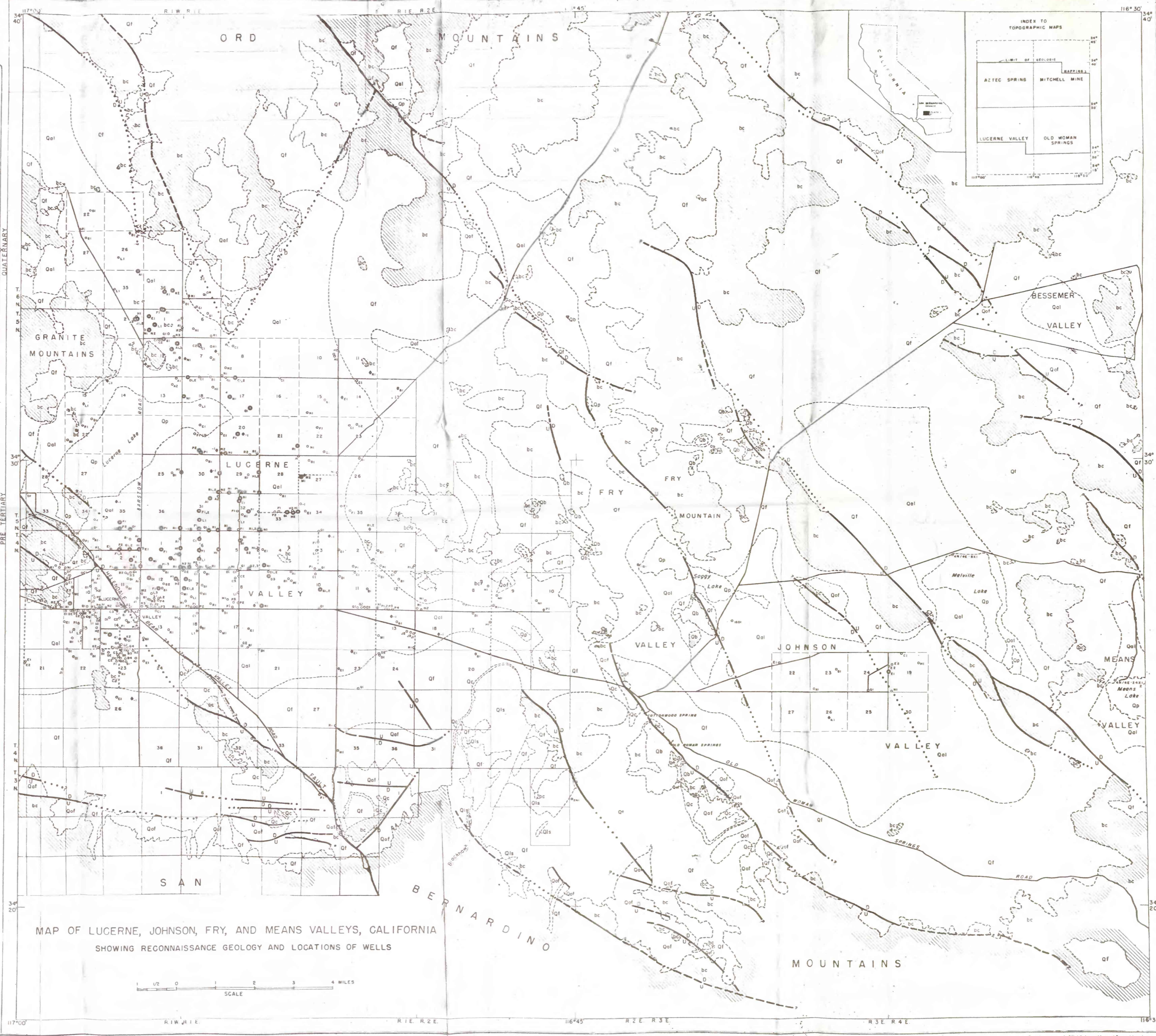
Continental deposits  
Predominantly fine grained, earthy, unconsolidated continental deposits, comprising weathered, silty fine sand, silty silt, clay, and a few gravel stringers, possibly lapped by some deep wells, but not readily recognizable in well logs, probably poorly water yielding

Basement complex  
Igneous rocks, principally quartz monzonite and granite, and metamorphic rocks, principally gneiss, schist, quartzite, and recrystallized limestone and dolomite, exposed in the mountains of the area and underlies the unconsolidated deposits in the valleys. Generally non-water-bearing, but locally yields small to moderate quantities of water to springs and a few wells

Geologic contact  
Fault, dashed where approximately located, dotted where concealed, questioned where doubtful  
Faults that have broken the alluvial deposits usually act as partial barriers to ground-water movement  
U, upthrown side; D, downthrown side

Domestic, stock, or unused well  
Flowing artesian well (1954)  
Irrigation well  
Destroyed or dry well

Open file release Not reviewed for conformance with the editorial standards and stratigraphic nomenclature of the Geological Survey



MAP OF LUCERNE, JOHNSON, FRY, AND MEANS VALLEYS, CALIFORNIA  
SHOWING RECONNAISSANCE GEOLOGY AND LOCATIONS OF WELLS