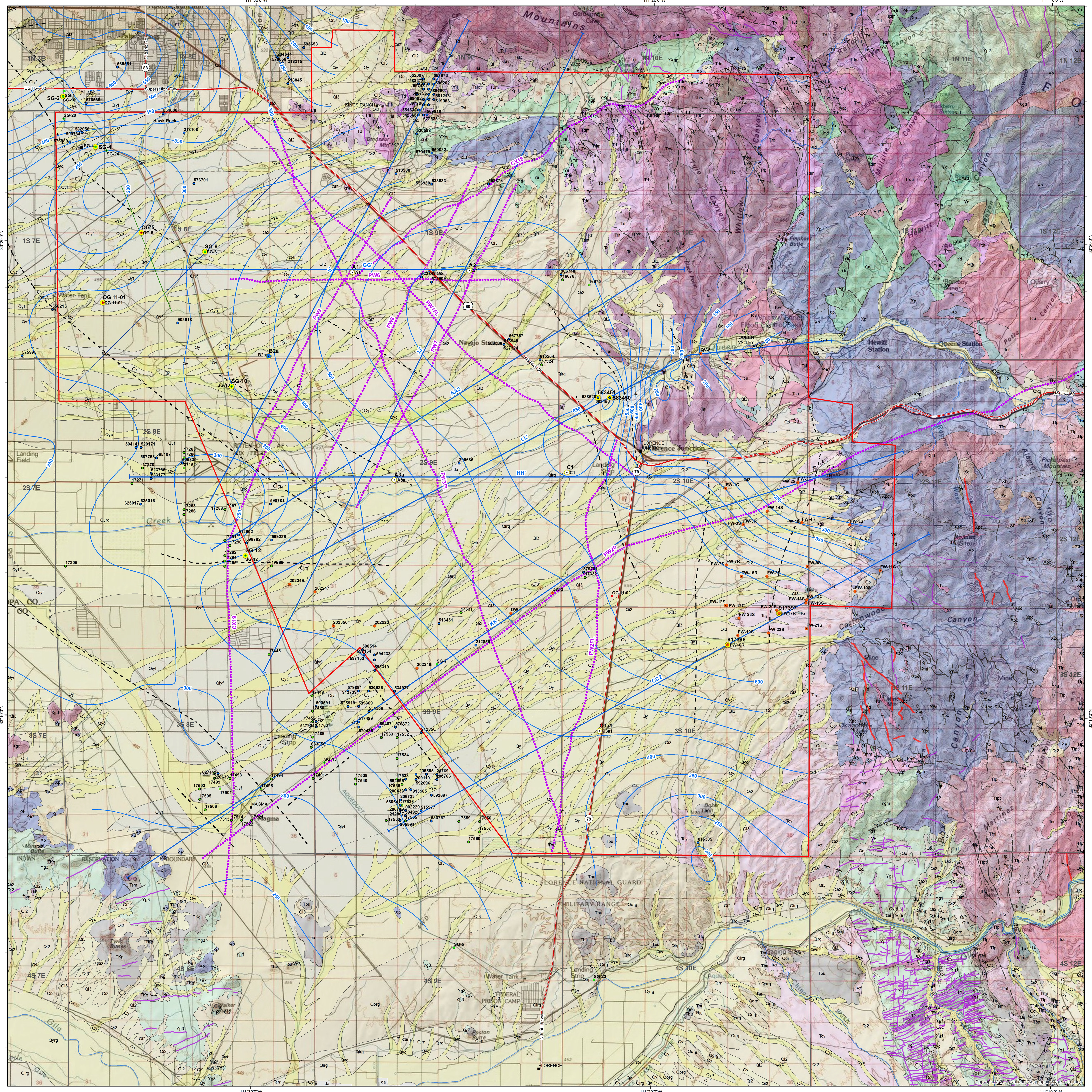
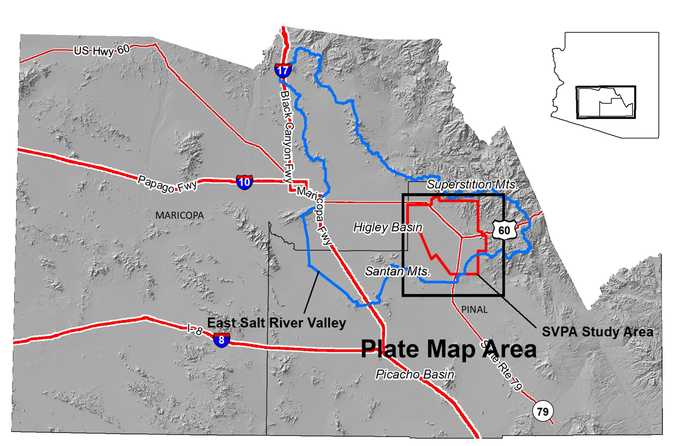
Plate 2. Superstition Vistas Planning Area: Hydrogeologic Map



Map projection: North American Datum 1983, Zone 12 North
Latitude/Longitude grid tics shown in black.

Geologic Map Units

- Qyc - Modern channel deposits
- Qy - Holocene piedmont alluvium, undivided
- Qyi - Mixed piedmont gravels
- Qi3 - Late to latest Pleistocene piedmont alluvium
- Qi2 - Middle to late Pleistocene piedmont alluvium
- Qi - Middle to late Pleistocene piedmont alluvium, undivided
- Qo - Early Pleistocene piedmont deposits
- Qyf - Fine-grained alluvial-fan and terrace deposits
- Qiyf - Fine-grained deposits
- Qtc - Colluvium and talus, undivided
- Qe - Eolian sand deposits (Holocene, 0 to 10 ka)
- Qs - Surficial deposits
- QTls - Landslide deposits
- Tsl - Lacustrine sedimentary rocks (Late Tertiary)
- Tbu - Upper basalt (Late and Middle Tertiary)
- Tsm - Sedimentary rocks; conglomerate, sedimentary breccia, sandstone and siltstone (Middle Tertiary)
- Tb - Basalt, undifferentiated (mostly Middle Tertiary)
- Tru - Upper rhyolite (Middle Tertiary)
- Tcy - conglomerate
- Tt - Tuff and associated sedimnetary rocks (Middle Tertiary)
- TKg - Granite and granodiorite (Middle Tertiary or Late Cretaceous)
- Tcu - Conglomerate
- Tsu - Sandstone
- Th - Hypabyssal intrusive rocks
- Trli - Hypabyssal intrusive rocks
- Xd - Diorite (Early Proterozoic)
- Trut - tuff
- Trdt - tuff
- Trbt - tuff
- Trwt - tuff
- Trlt - tuff
- Tdt - tuff
- Trui - hypabyssal felsite
- Teb - lamproite of Elephant Butte
- M§s - Sedimentary rocks
- Tfp - felsic lava flows
- Tfpt - tuffs
- Tfpi - hypabyssal intrusive rocks
- Tal - Apache Leap Tuff
- Talx - Breccia associated with the Apache Leap Tuff
- Trdu - Undifferentiated felsic lava
- Trb - lava
- Trw - lava
- Trl - lava
- Ttn - tuff of North Butte
- Td - Dacite
- TKdd - Dacite
- Tdm - Mafic lavas
- Tx - megabreccia and sedimentary breccia
- TYu - Granite and dikes
- TKr - Rhyolite
- TXg - granodiorite
- Kmm - Mineral Mountain Quartz Monzonite
- Yad - Apache Group, Troy Quartzite, and diabase
- Yd - Diabase
- Ya - Apache Group
- Yg1 - Porphyritic biotite granite
- Yg2 - Porphyritic biotite granite
- Yg3 - porphyritic granite of Olberg
- Ygm - muscovite granite
- YXgp - porphyrytic granite of Peralta Spring
- Xgd - granodiorite to granite
- Xh - Hornblendite to hornblende gabbro
- Xp - Pinal Schist
- Xpp - phyllite facies
- Xpc - calc-silicate and amphibolite facies
- Qyrg - Young channel and floodplain deposits - Gila River
- Qirg - Intermediate terrace deposits - Gila River
- Qorg - Old river deposits - Gila River
- da - Disturbed ground - aggregate quarry
- Qyrq - Young channel and terrace deposits - Queen Creek
- Qirq - Intermediate terrace and alluvial fan deposits - Queen Creek
- Qorq - Old terrace deposits - Queen Creek
- Qor - Old, high river terrace deposits



Legend

Wells by category

- Borings
- Test Well
- ADWR 55-wells (6-digit ID)
- ADWR 35-wells (5-digit ID)
- Resolution Copper wells
- Oil and Gas wells
- Salt-Gila wells
- Wells with geophysical logs

- *Superstitions Vistas Planning Area*
- *Township (N/S) and Range (E/W)*
- *Major drainages*
- *Geologic cross-sections (this study)*
- *Vintage seismic lines used in this study, processed and analyzed by University of Arizona seismic group, 2008 and 2016.*
- *Depth to Groundwater (ft-bls) (SRP, 2014)*

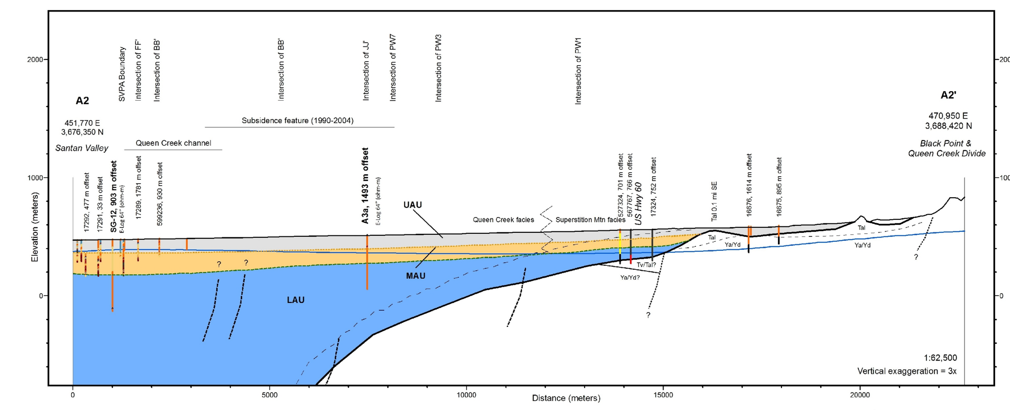
Miles 0 1 2 3 4 5

Kilometers 0 1 2 3 4 5

Scale 1:60,000

Hydrogeologic Cross-Sections

Hydrogeologic Cross Section A2-A2'

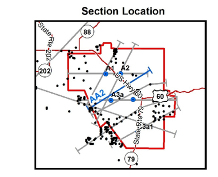


Hydrogeologic contacts/other
- Depth to water (2017)
- Bottom of UAU
- Bottom of MAU
- Depth to bedrock (2017)
- Depth to bedrock (2012)

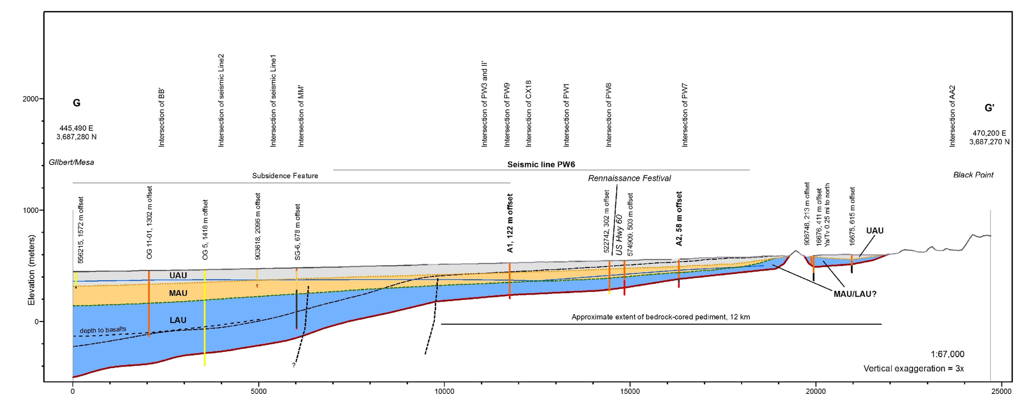
Hydrogeologic units
- Upper Alluvial Unit
- Middle Alluvial Unit
- Lower Alluvial Unit

Borehole lithology
- Predominantly gravelly sediments
- Predominantly sand and gravel
- Predominantly silt and clay
- Predominantly clayey sediments
- Predominantly conglomeratic sediments
- Evaporite or evaporitic sediments
- Basalt flows or vents
- Felsic/intermediate volcanic rocks
- Crystalline bedrock (igneous or metamorphic)
- Unknown rock or sediment

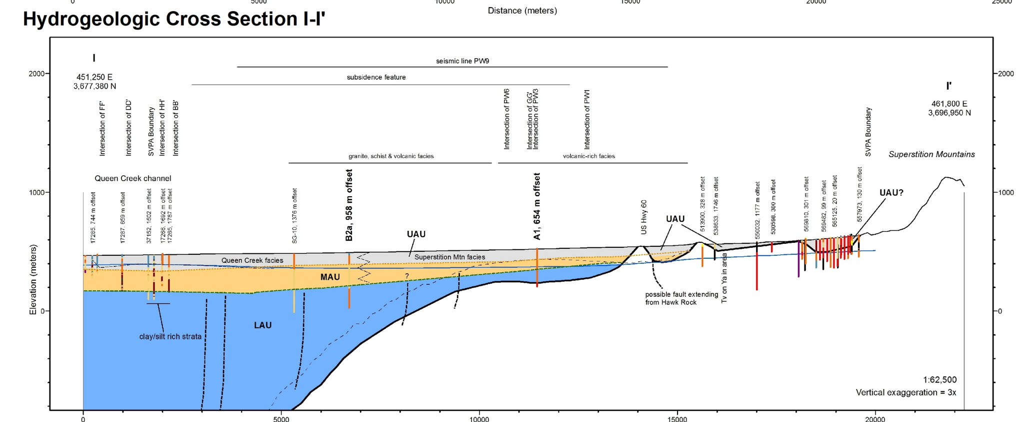
Section Location



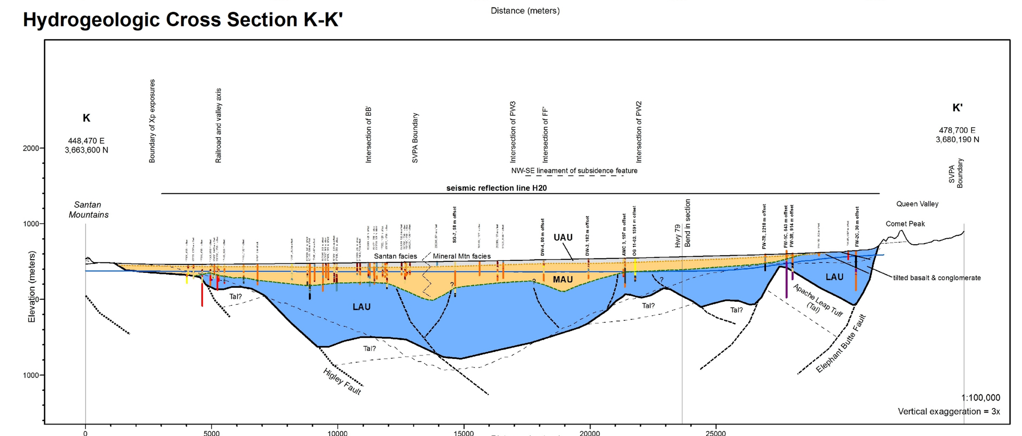
Hydrogeologic Cross Section G-G'



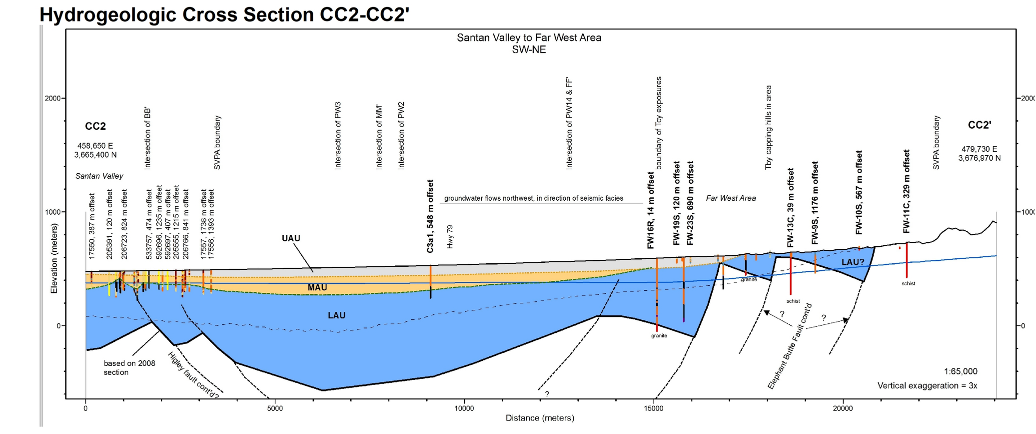
Hydrogeologic Cross Section I-I'



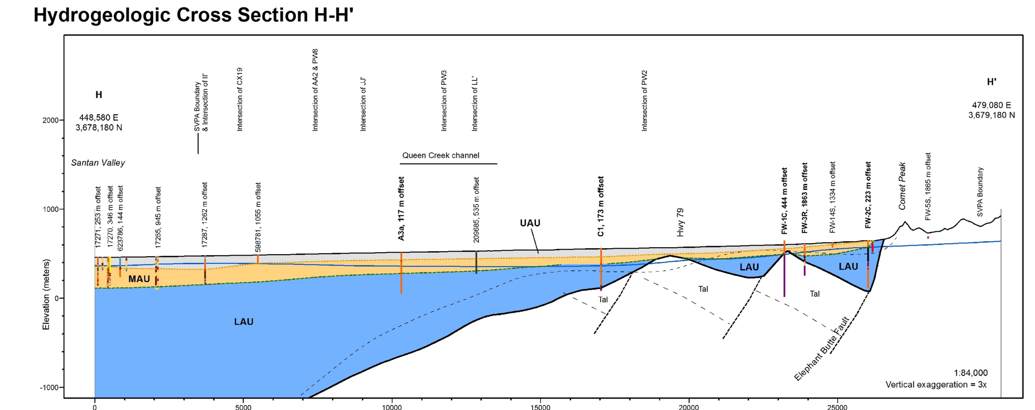
Hydrogeologic Cross Section K-K'



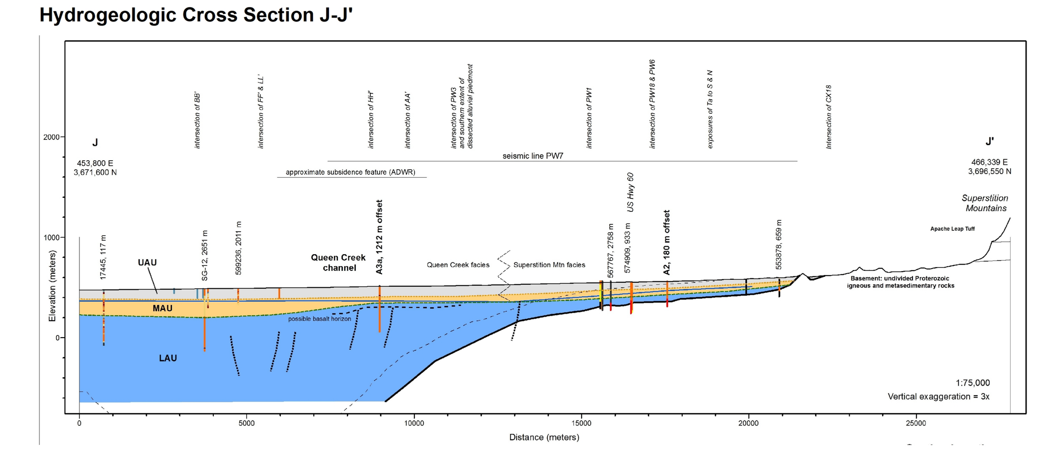
Hydrogeologic Cross Section CC2-CC2'



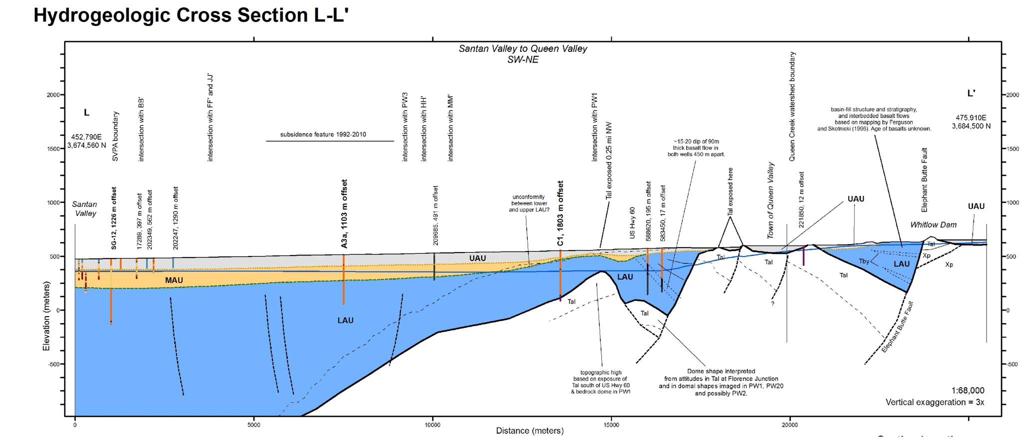
Hydrogeologic Cross Section H-H'



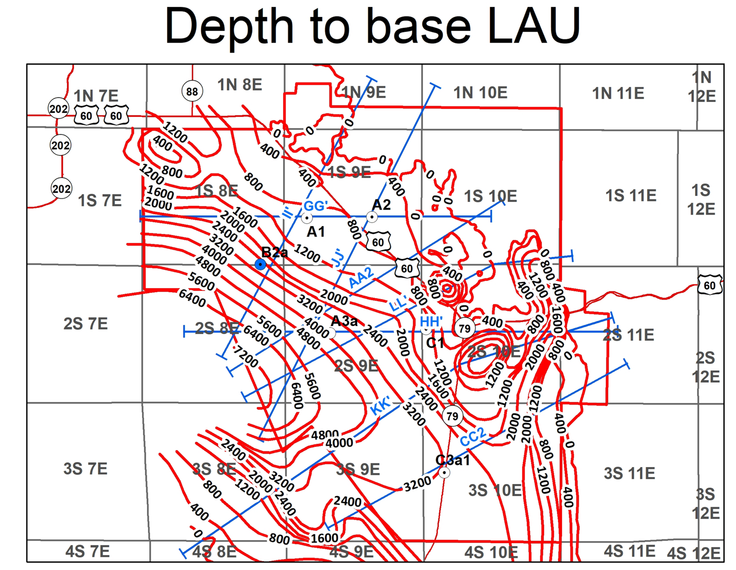
Hydrogeologic Cross Section J-J'



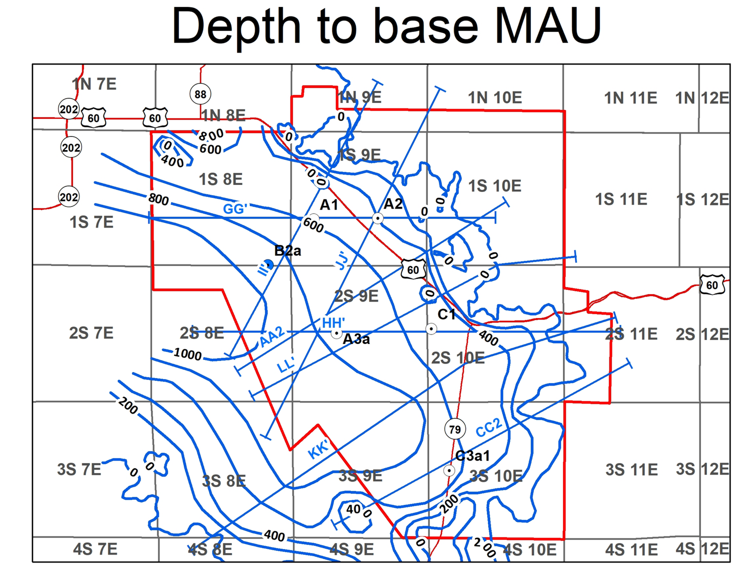
Hydrogeologic Cross Section L-L'



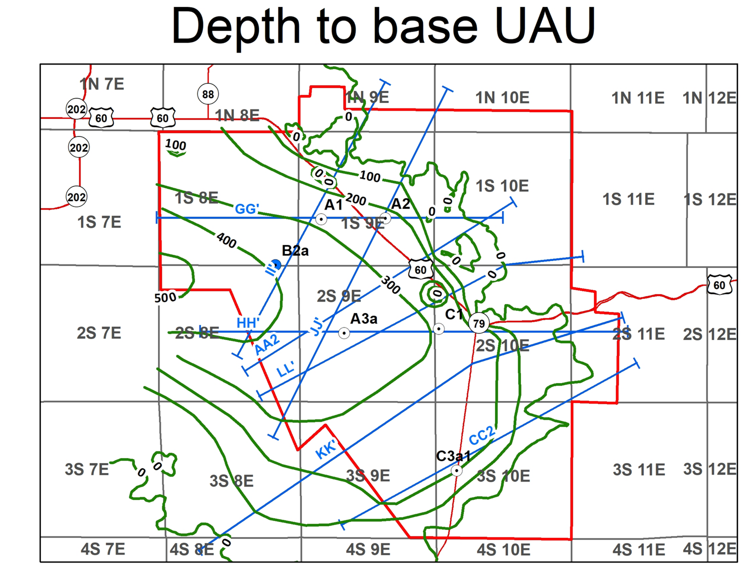
Depth to base LAU



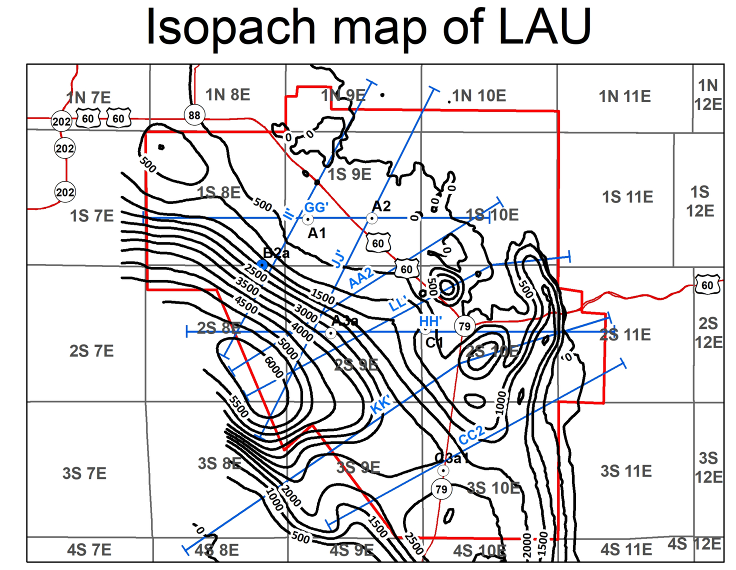
Depth to base MAU



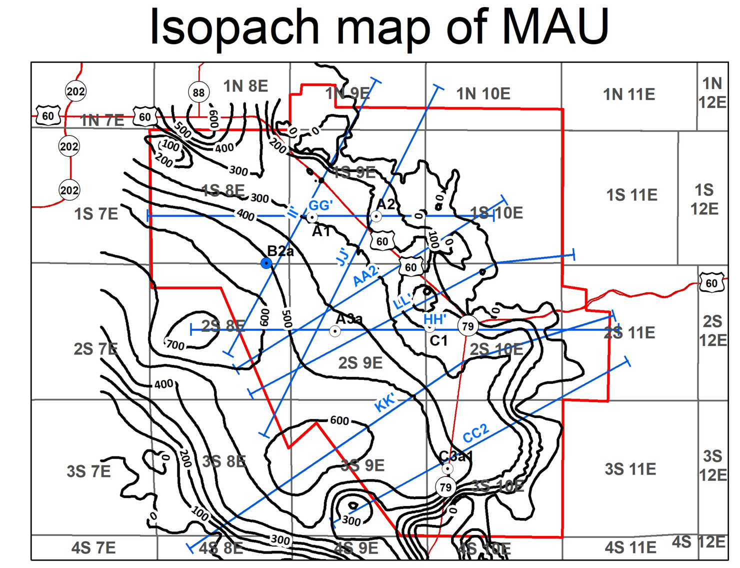
Depth to base UAU



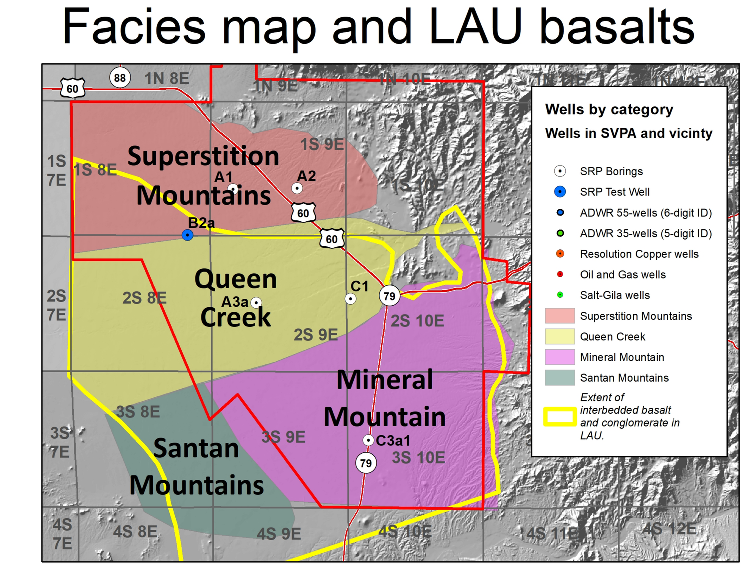
Isopach map of LAU



Isopach map of MAU



Facies map and LAU basalts



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