

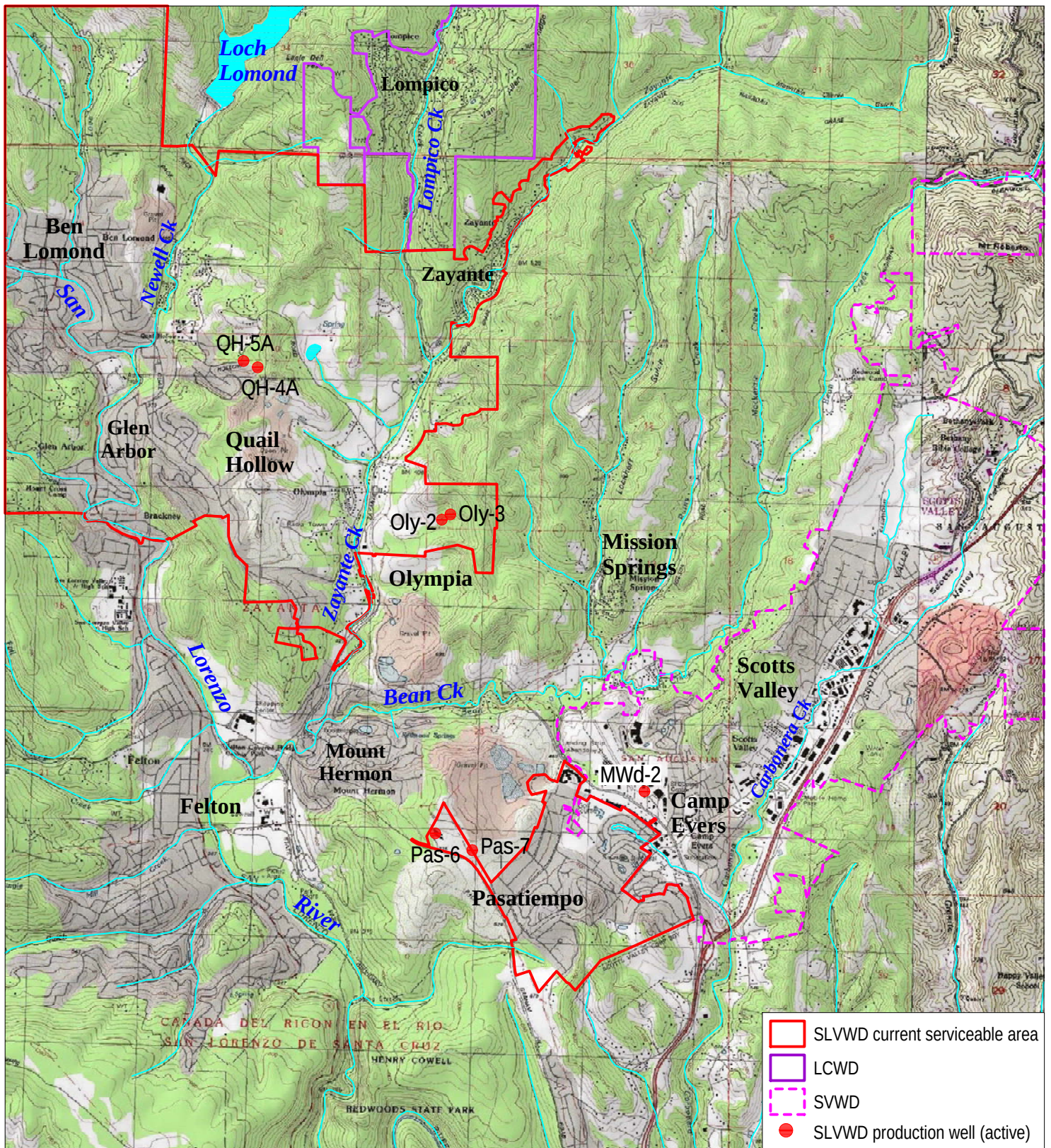


Figure 5-1
SLVWD Groundwater Production Wells

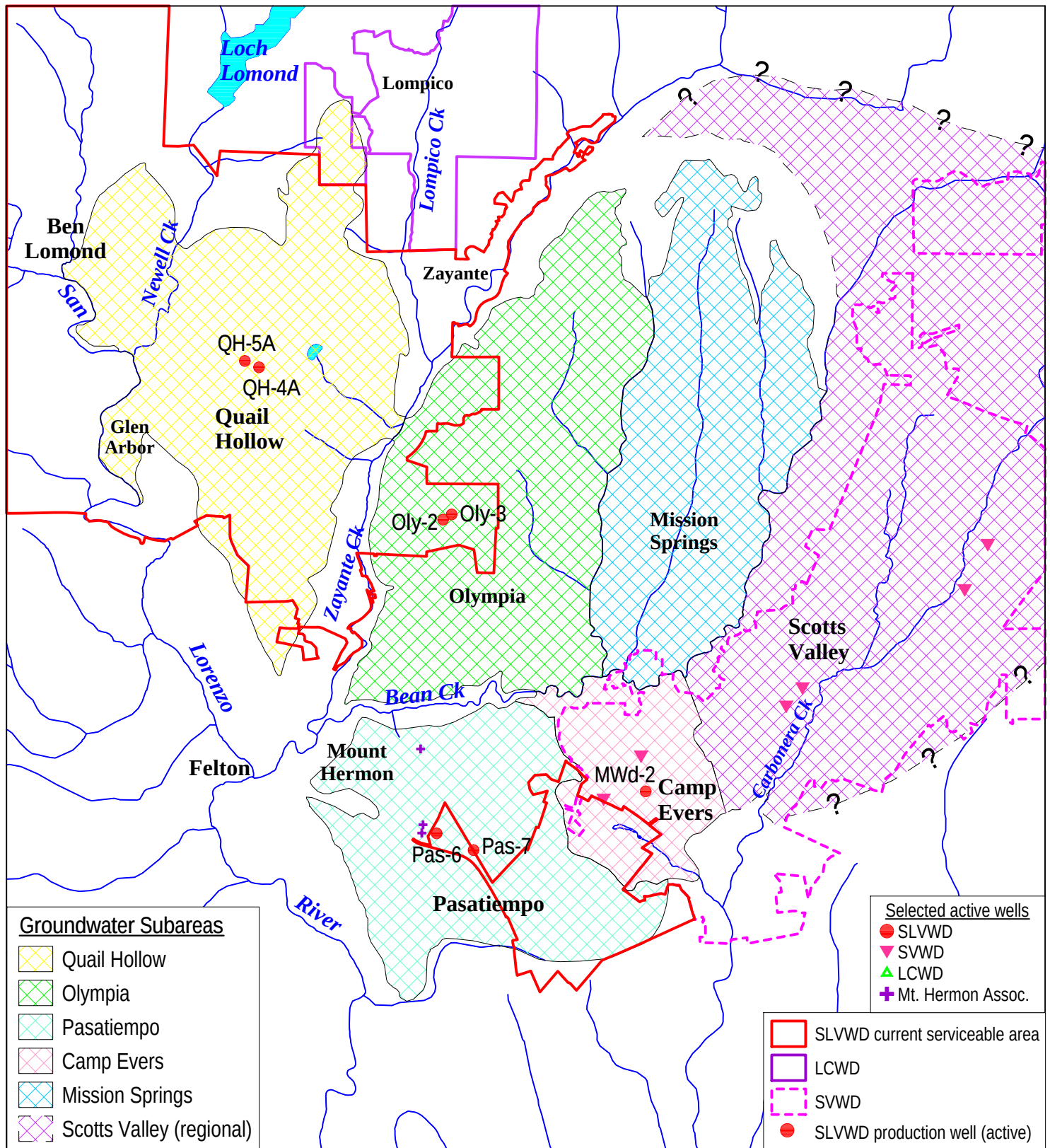


Figure 5-2
Groundwater Subareas

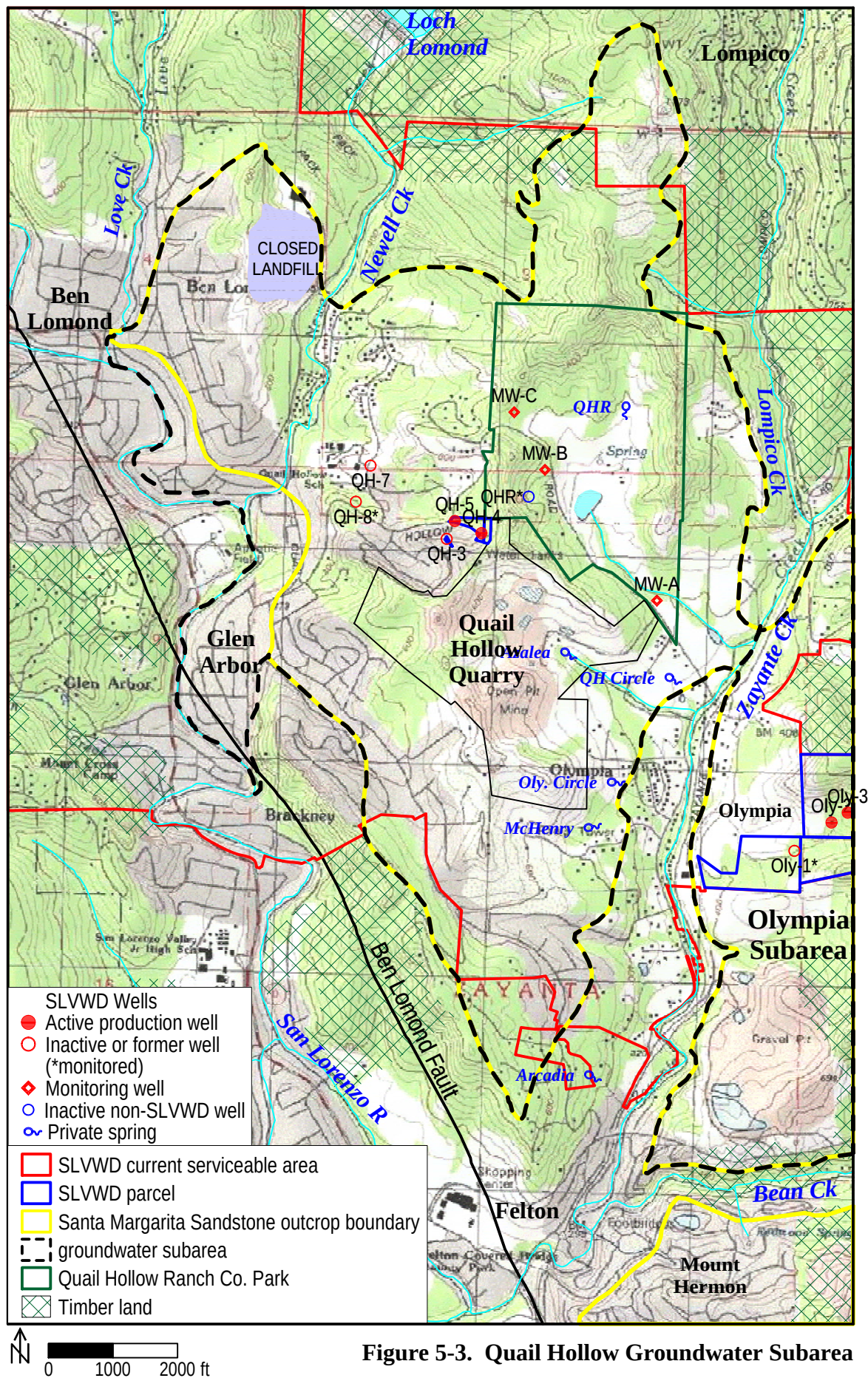


Figure 5-3. Quail Hollow Groundwater Subarea

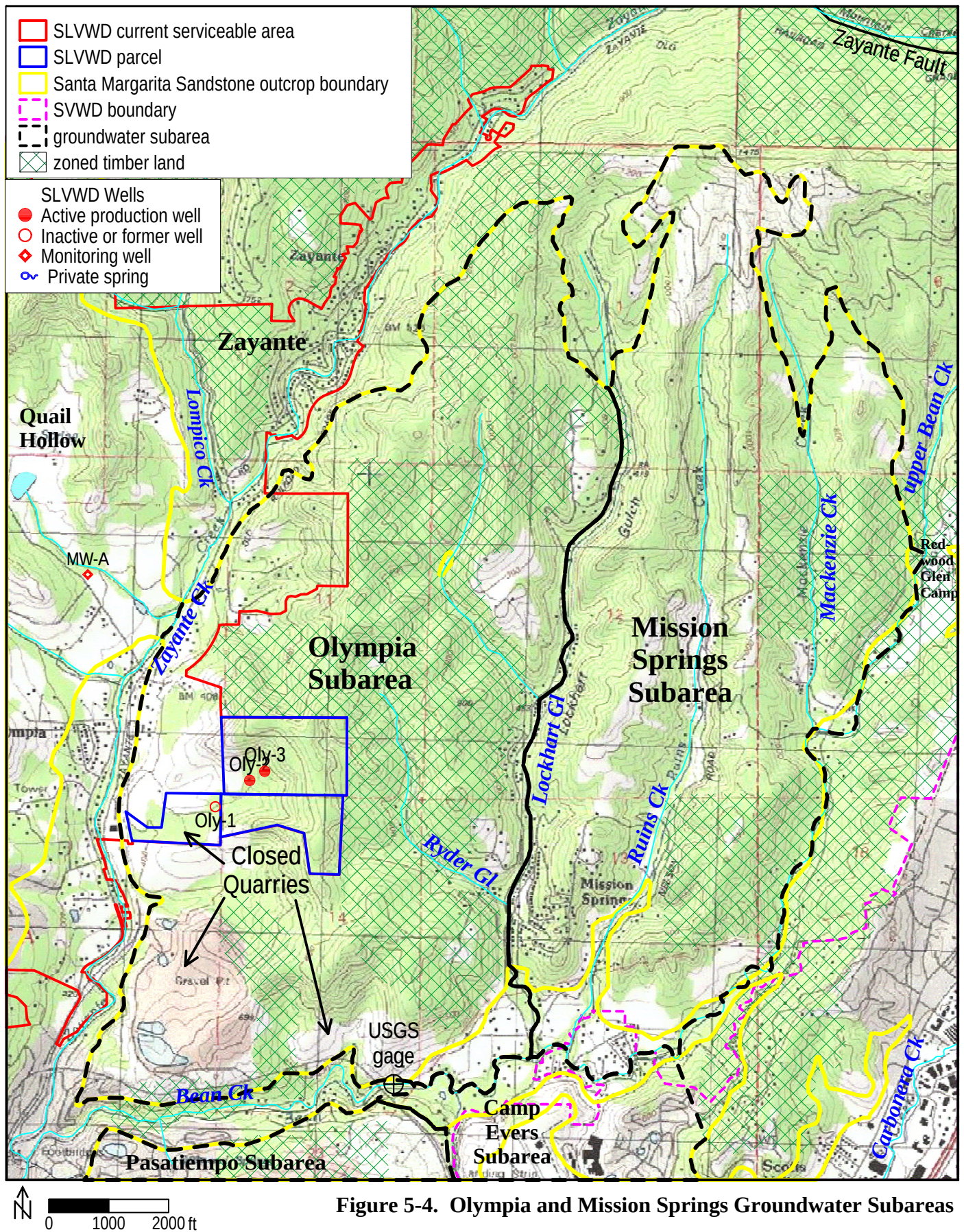


Figure 5-4. Olympia and Mission Springs Groundwater Subareas

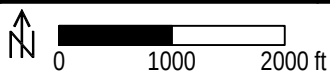
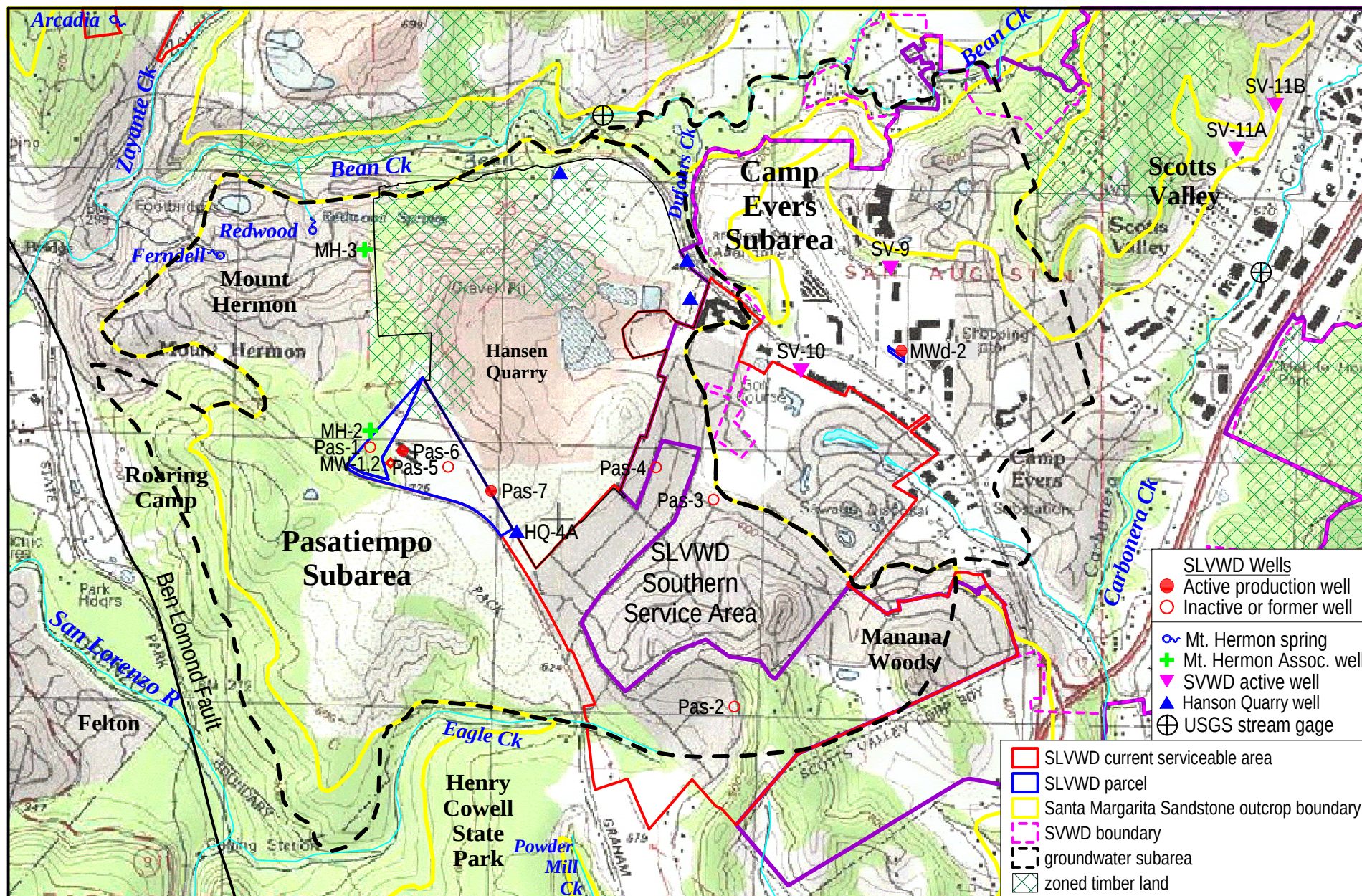


Figure 5-5. Pasatiempo and Camp Evers Groundwater Subareas

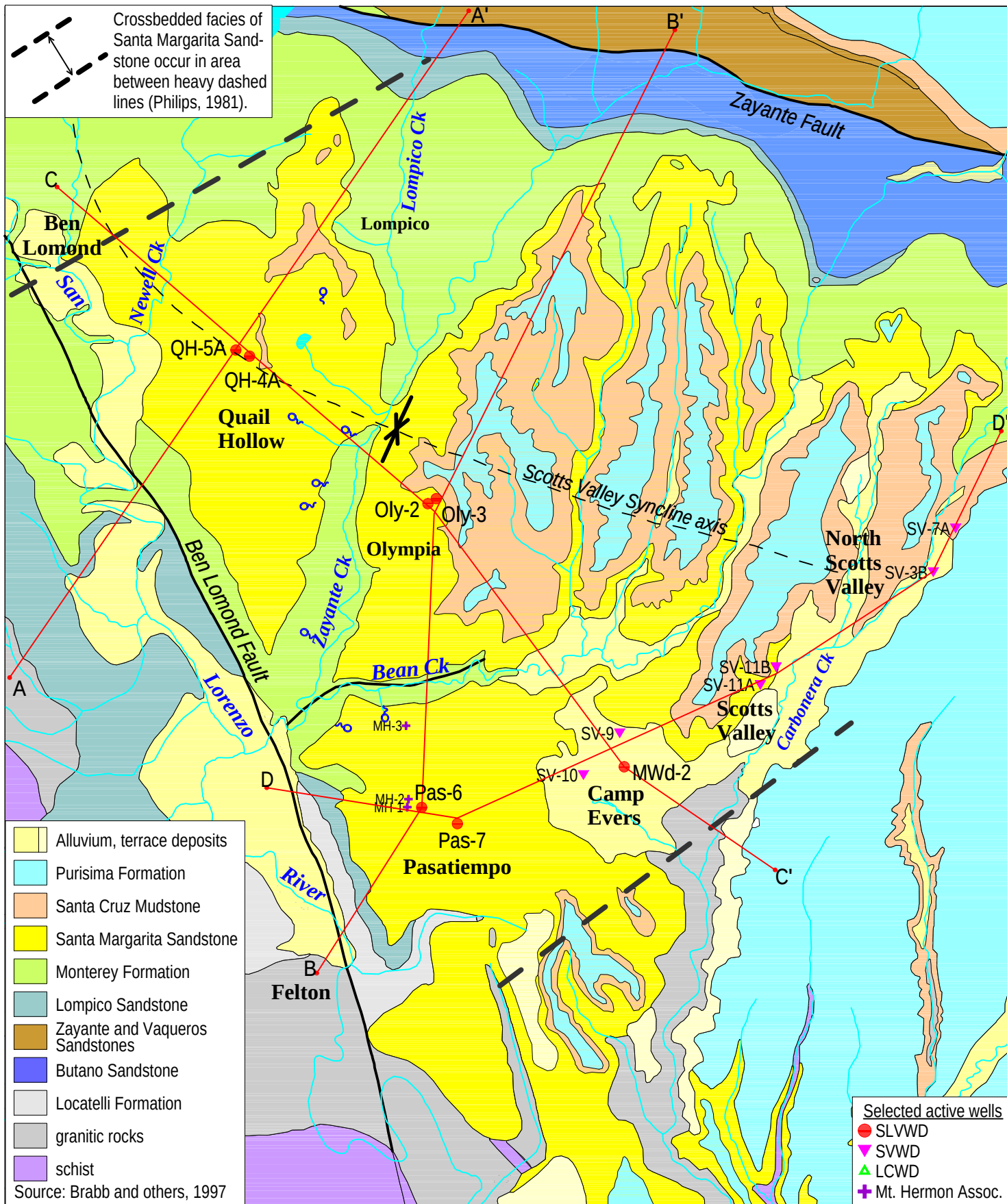
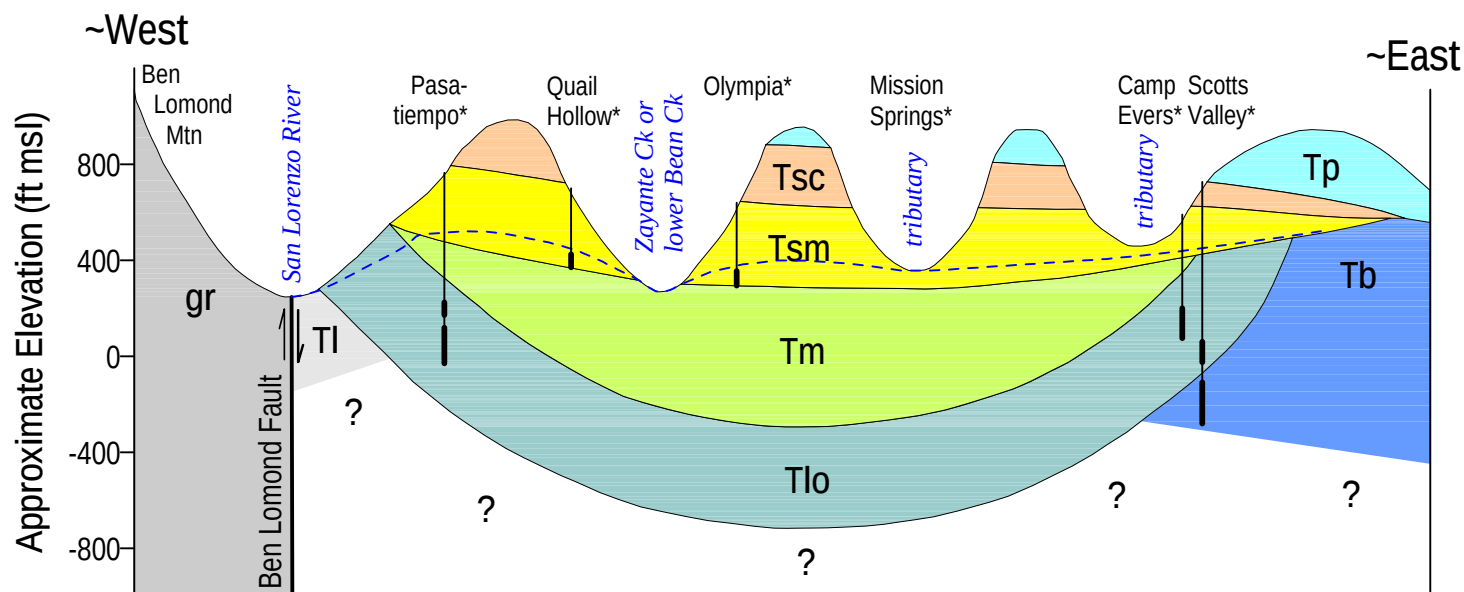


Figure 5-6
Geology of SLVWD Groundwater Source Areas



Vertical exaggeration ~5X.
Alluvial and terrace deposits not depicted.

*Some but not all aspects relevant

- Purisima Formation (Tp)
- Santa Cruz Mudstone (Tsc)
- Santa Margarita Sandstone (Tsm)**
- Monterey Formation (Tm)
- Lompico Sandstone (Tlo)**
- Butano Sandstone (Tb)**
- Locatelli Formation (TI)
- granitic rocks (gr)

**Principal aquifer within basin.

Representative production well
screened interval

Piezometric surface of uppermost saturated zone.

Figure 5-7
Schematic Geologic Cross Section of SLVWD Groundwater Source Areas

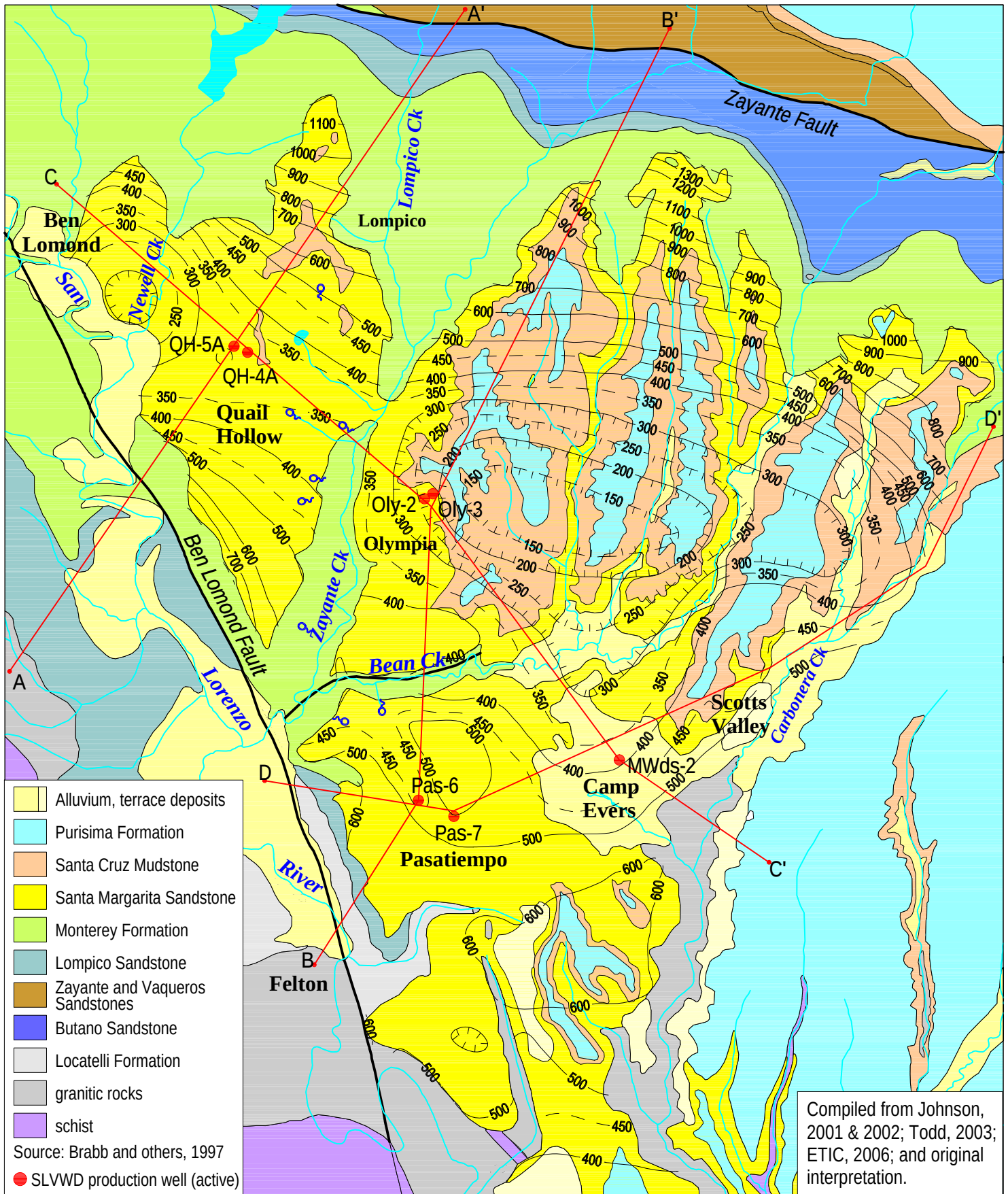


Figure 5-8
Estimated Elevation of the Bottom of the Santa Margarita Sandstone
(ft msl)

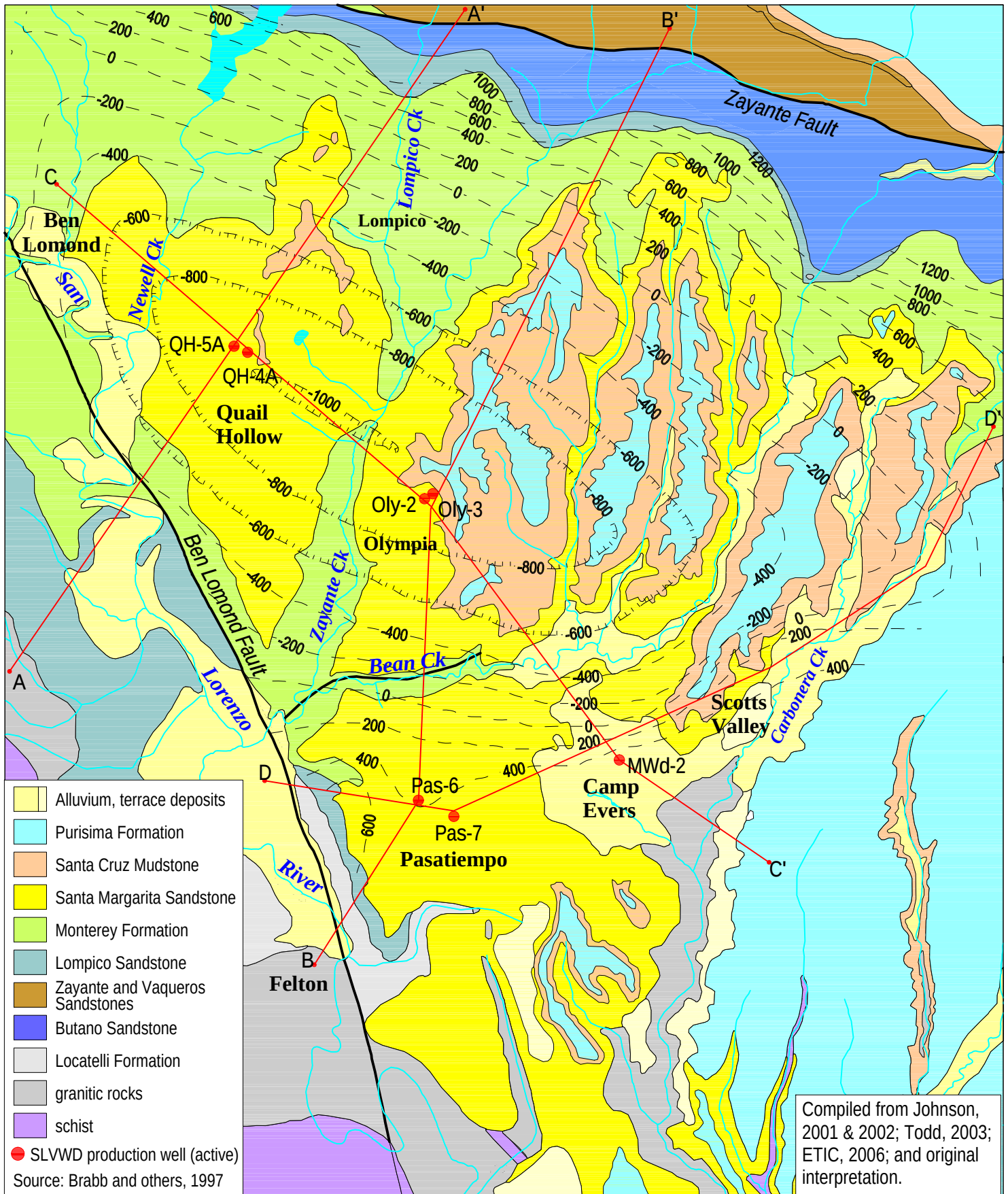


Figure 5-9
Estimated Elevation of the Top of the Lompico Sandstone
(ft msl)

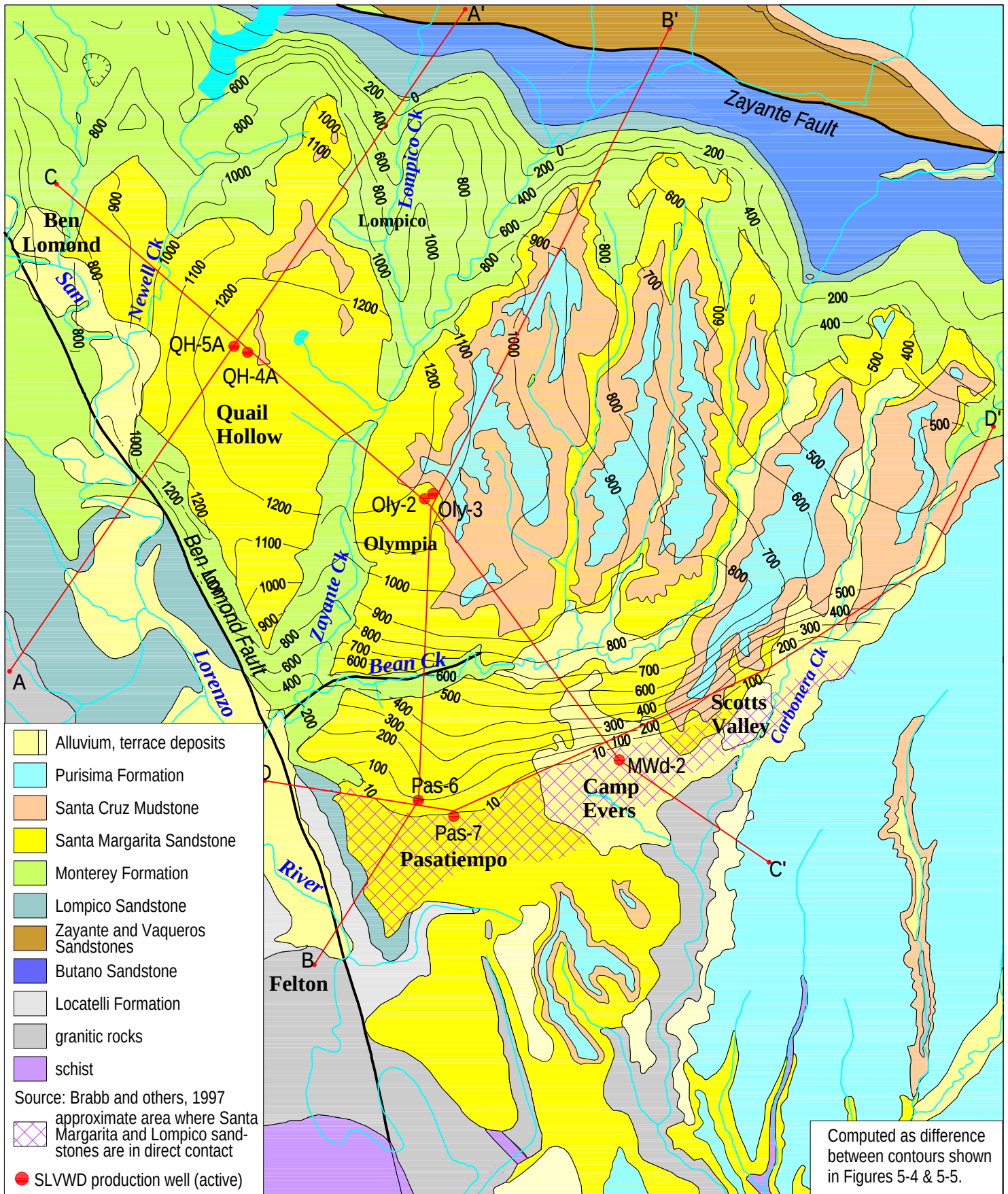


Figure 5-10
Estimated Thickness of the Monterey Formation (ft)

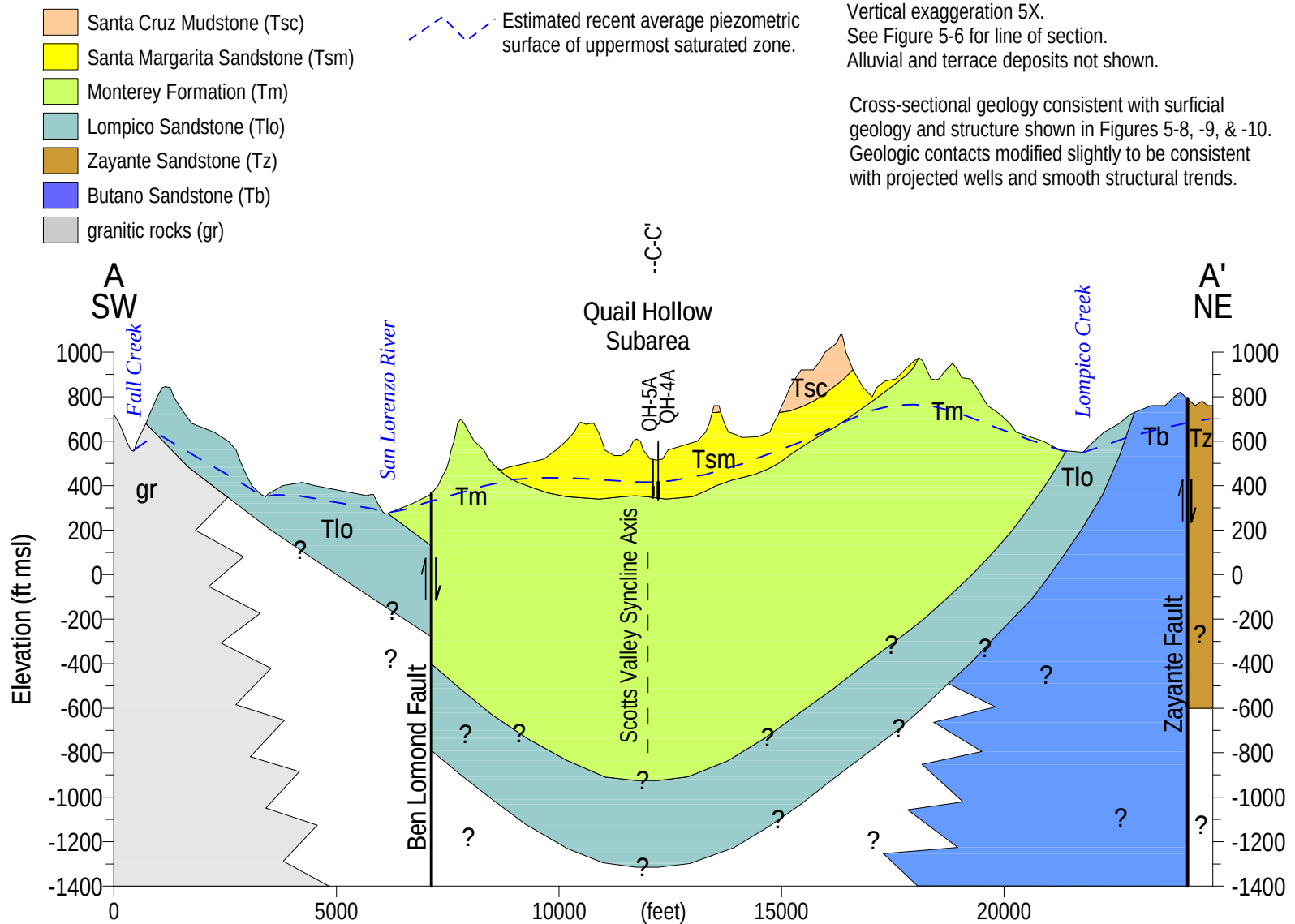


Figure 5-11
Geologic Cross Section A-A' Through Quail Hollow Area

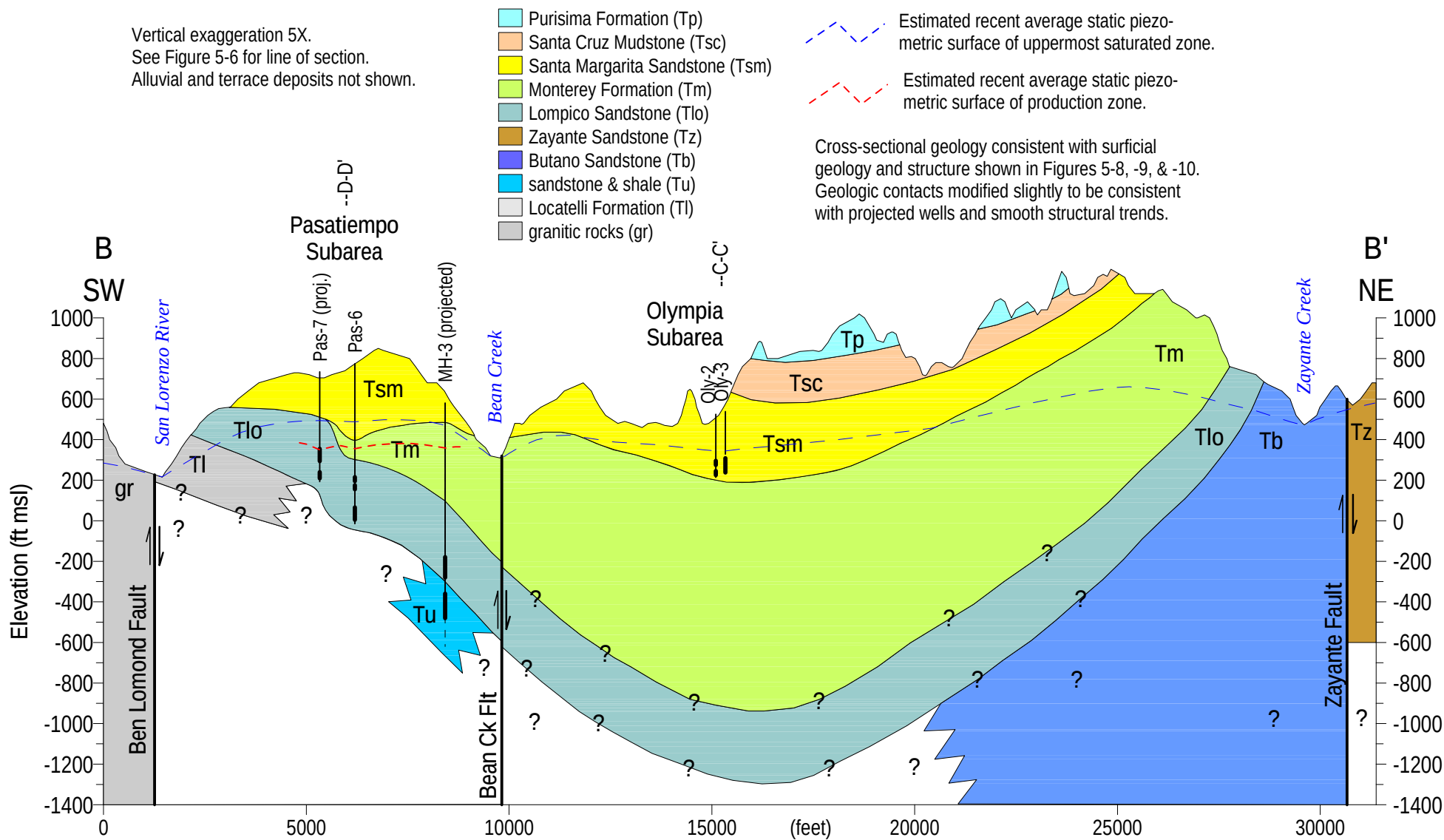


Figure 5-12
Geologic Cross Section B-B' Through Pasatiempo and Olympia Areas

- Purisima Formation (Tp)
- Santa Cruz Mudstone (Tsc)
- Santa Margarita Sandstone (Tsm)
- Monterey Formation (Tm)
- Lompico Sandstone (Tlo)
- Locatelli Formation (TI)
- granitic rocks (gr)

- - - Estimated recent average piezometric surface of uppermost saturated zone.

Vertical exaggeration 5X.
See Figure 5-6 for line of section.
Alluvial and terrace deposits not shown.

Cross-sectional geology consistent with surficial geology and structure shown in Figures 5-8, -9, & -10.
Geologic contacts modified slightly to be consistent with projected wells and smooth structural trends.

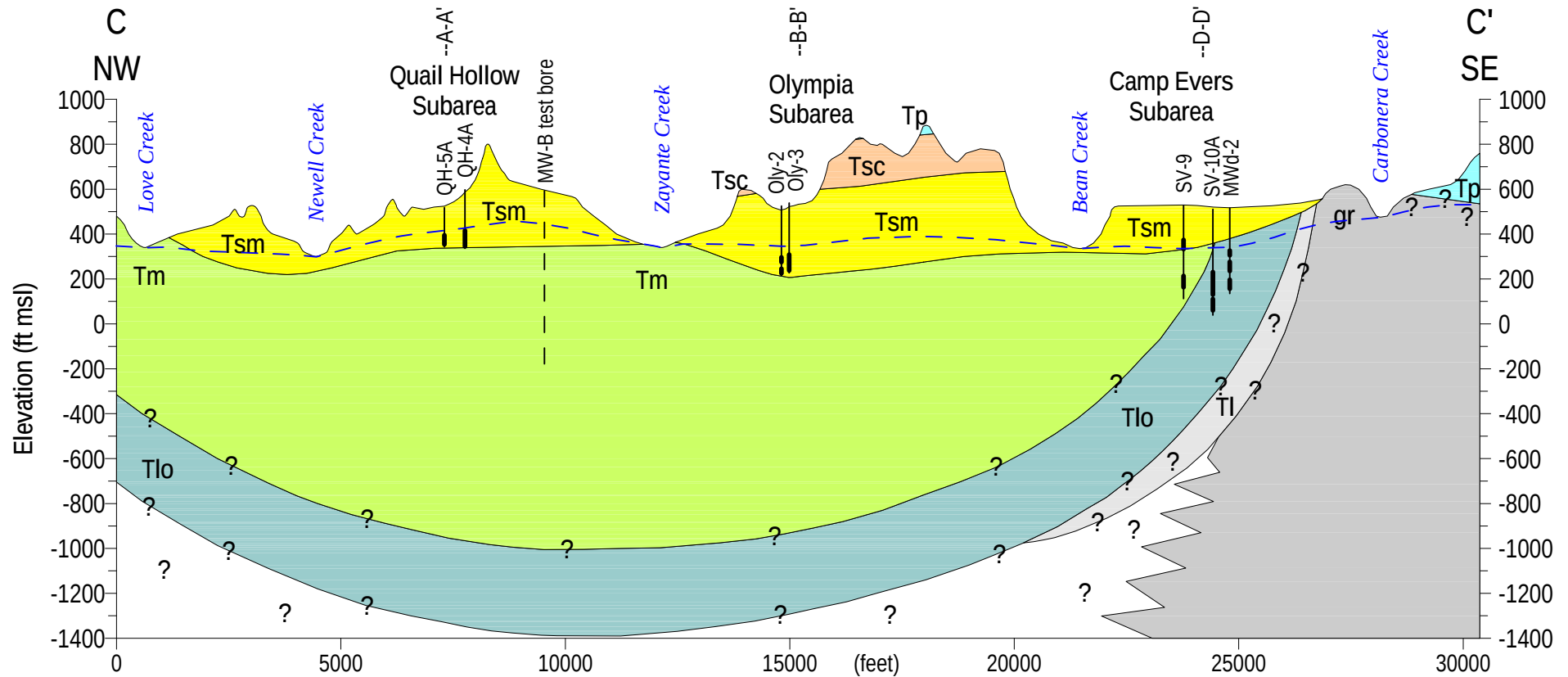


Figure 5-13
Geologic Cross Section C-C' Through Quail Hollow, Olympia, and Camp Evers Areas

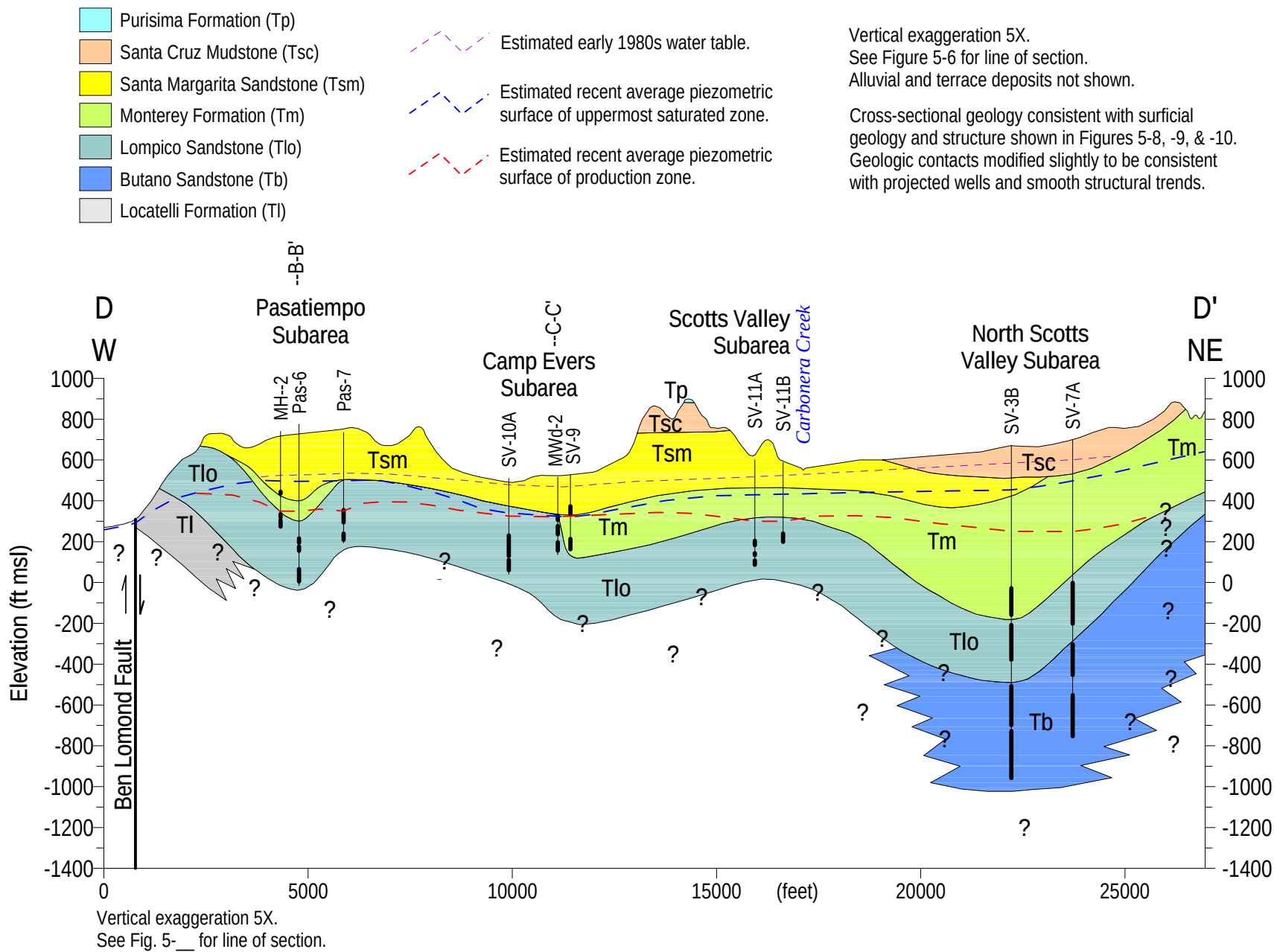


Figure 5-14
Geologic Cross Section D-D' Through Pasatiempo, Camp Evers, and Scotts Valley Areas

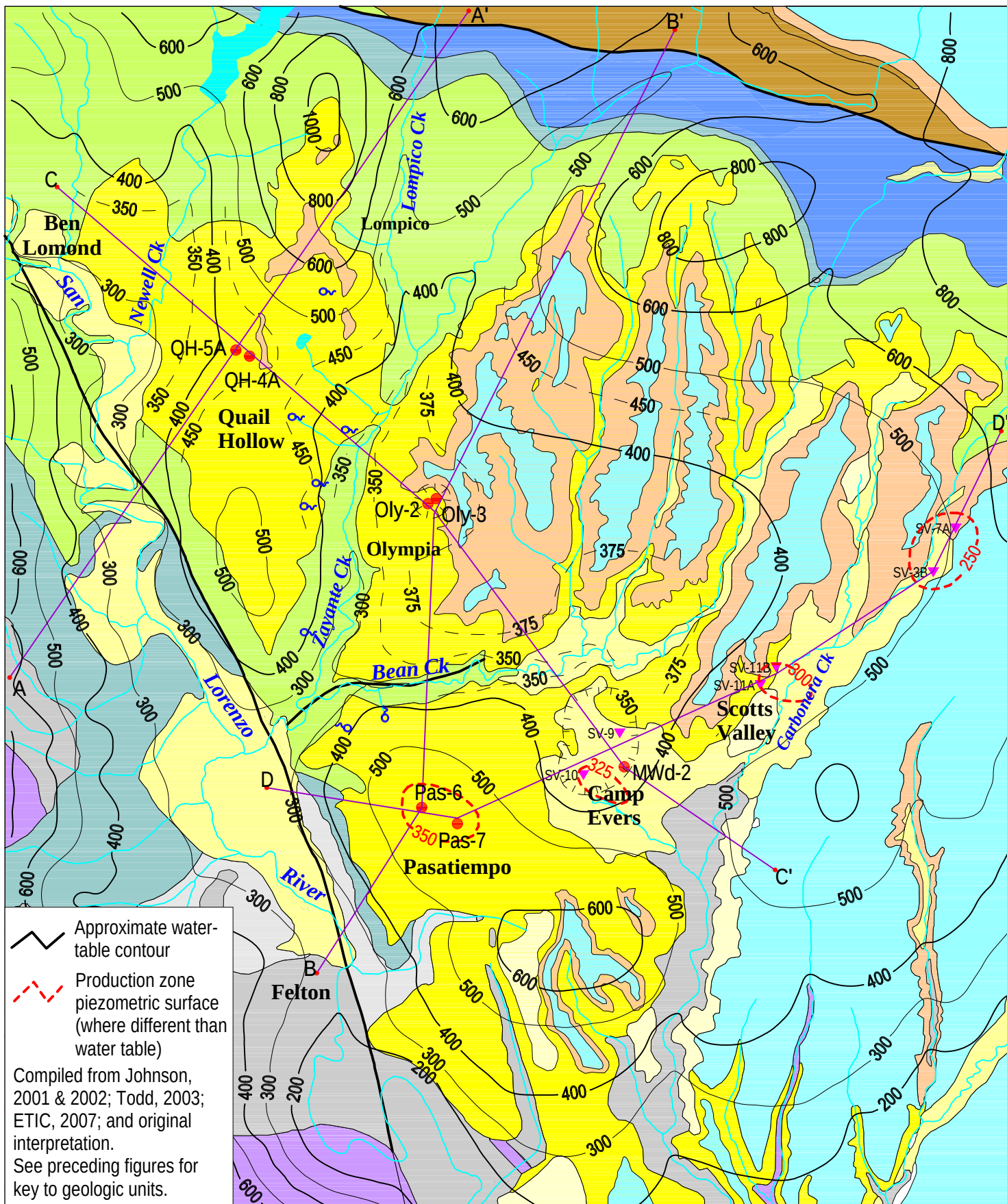


Figure 5-15
Estimated Recent Average Water Table and
Production Zone Piezometric Surface (ft msl)

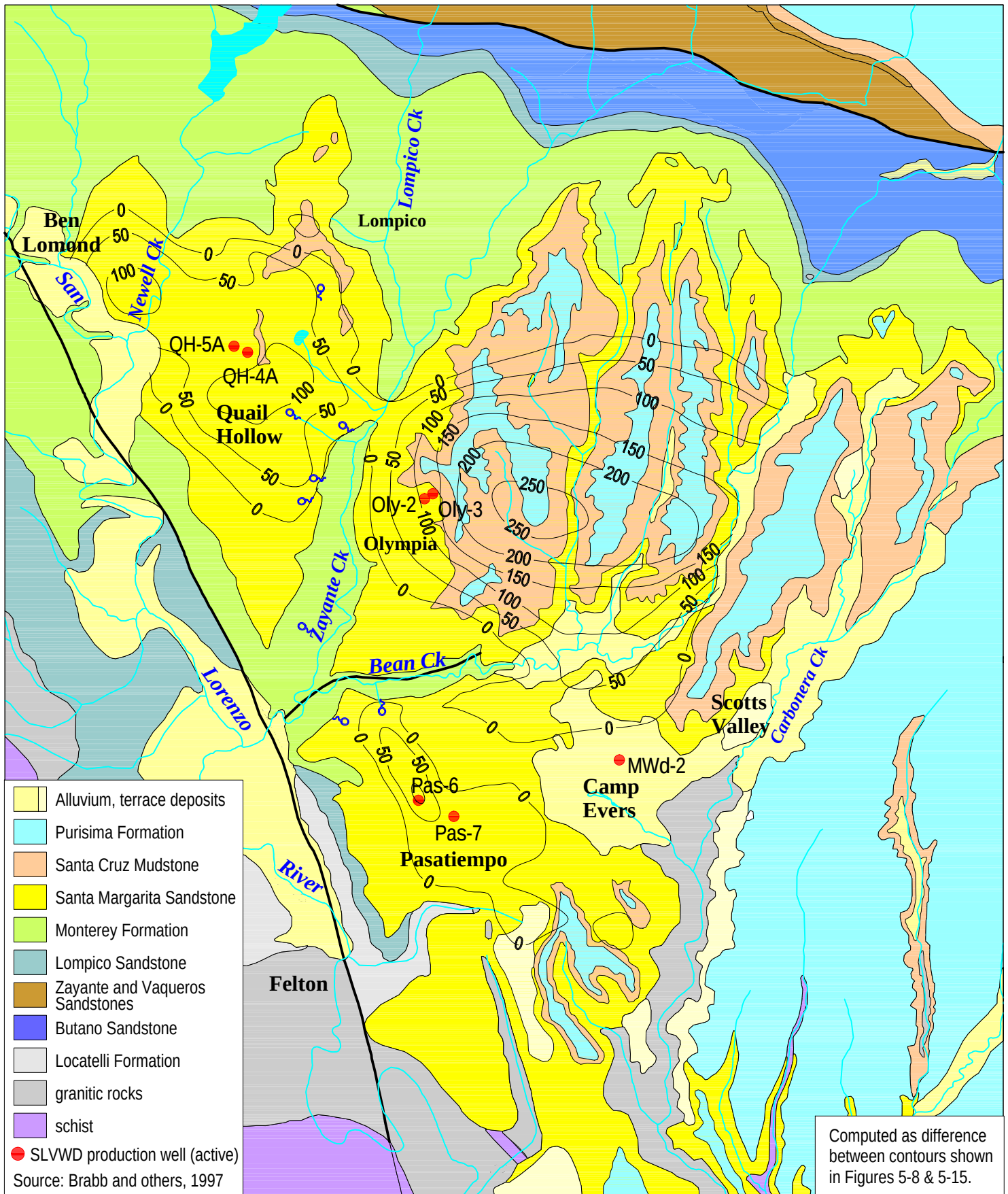


Figure 5-16
Estimated Recent Average Saturated Thickness
of the Santa Margarita Sandstone (ft)

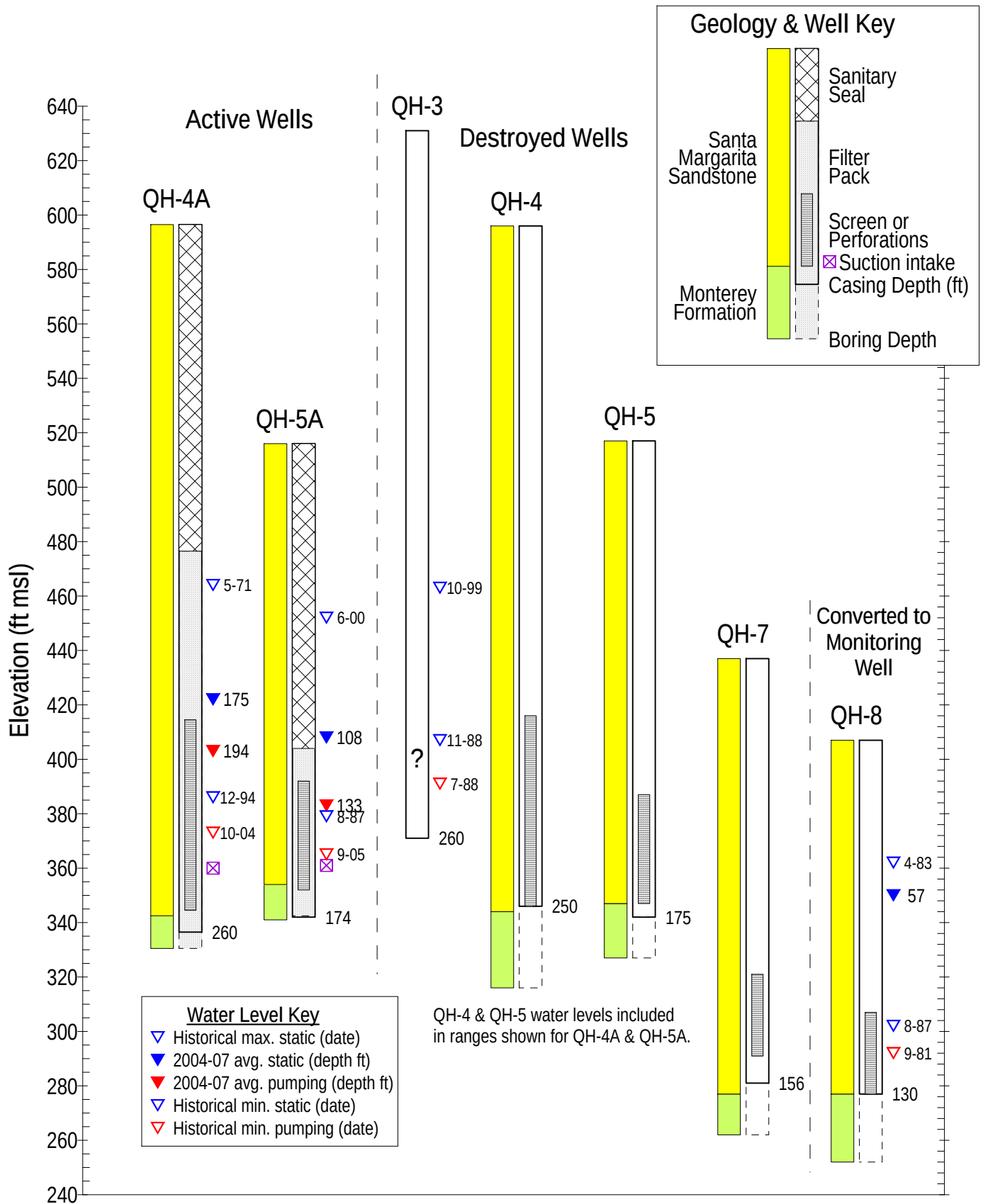


Figure 5-17
Profiles of SLVWD Active and Former Quail Hollow Production Wells

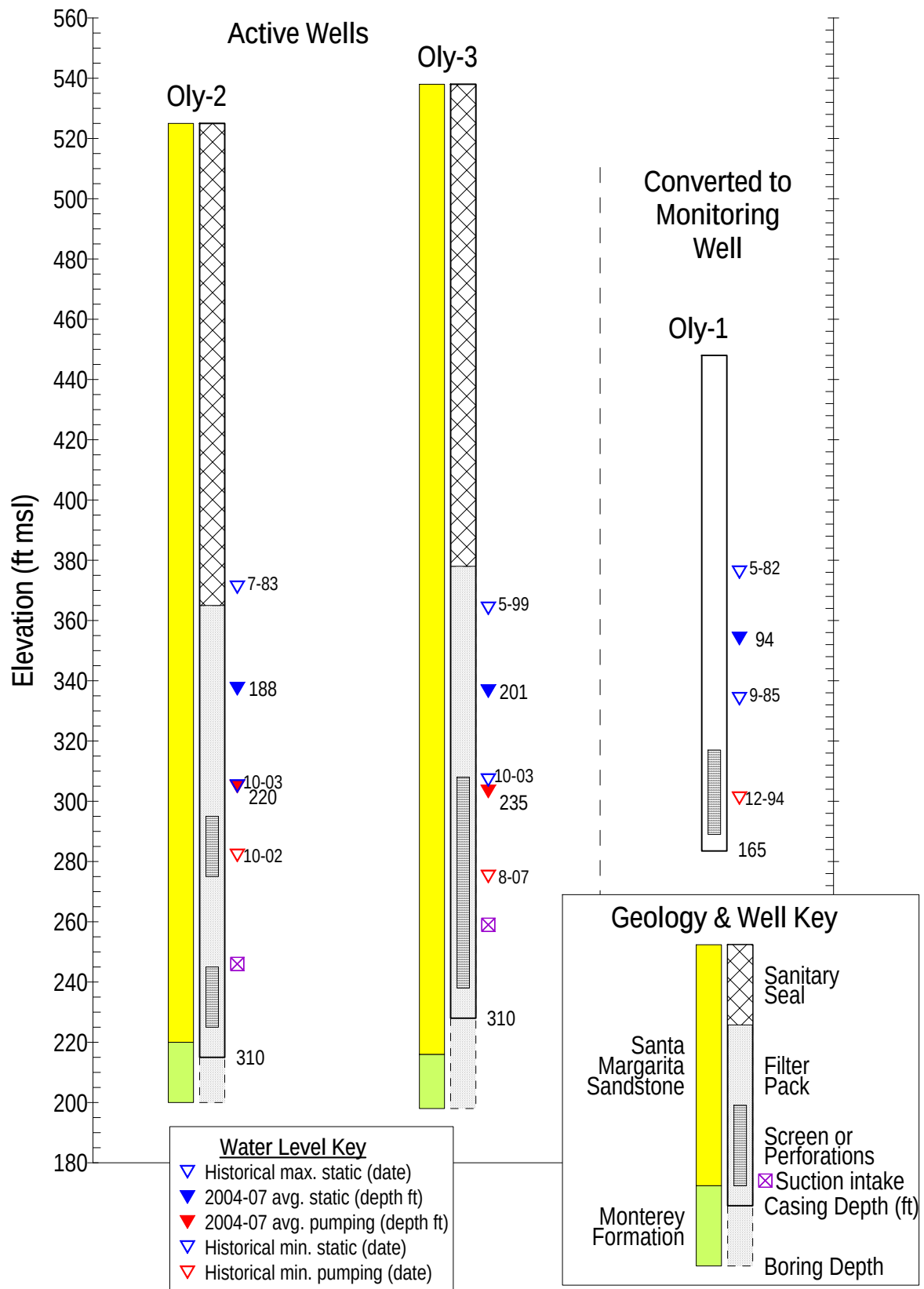


Figure 5-18
Profiles of SLVWD Active and Former Olympia Production Wells

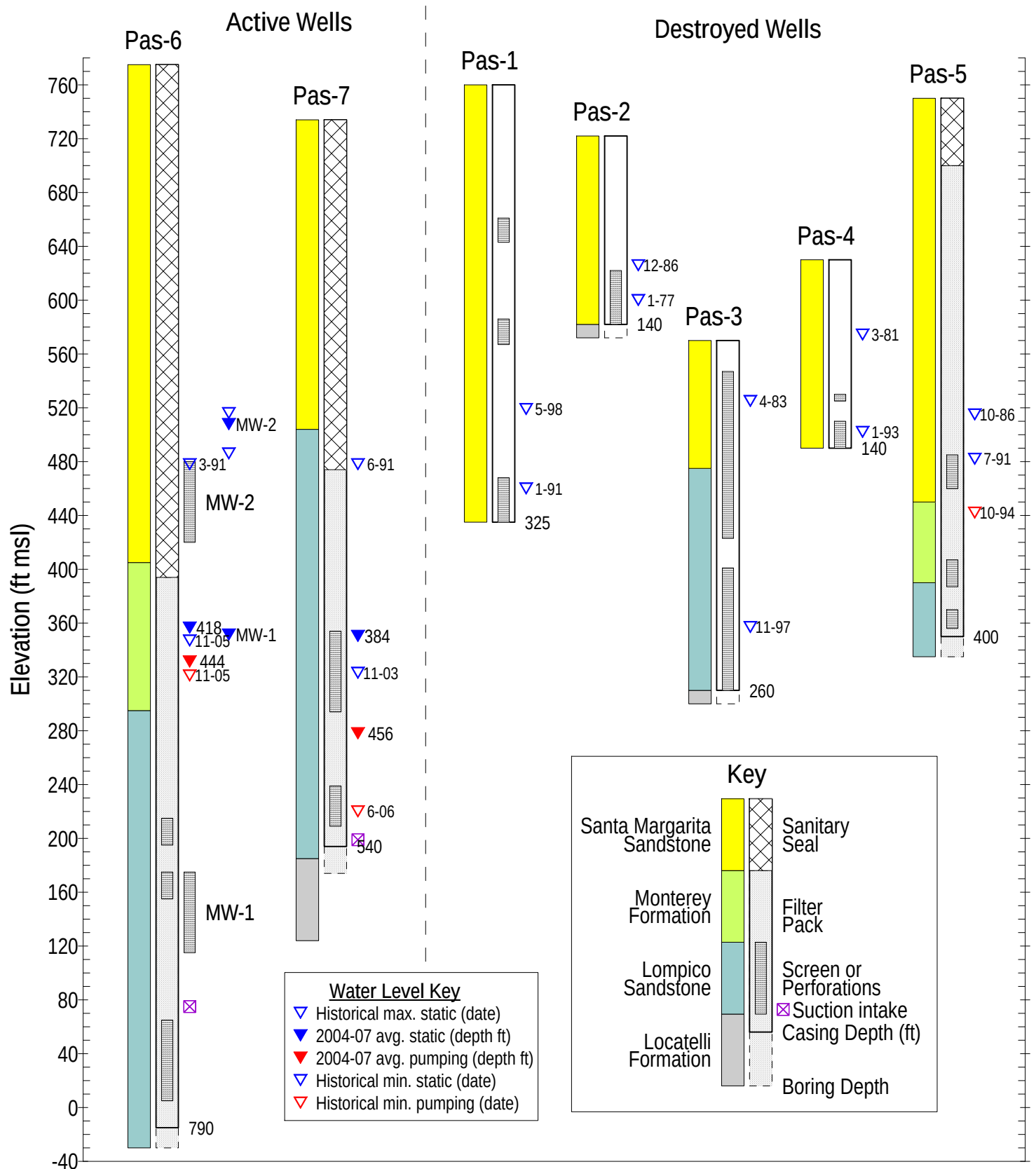


Figure 5-19
Profiles of SLVWD Active and Former Pasatiempo Production Wells

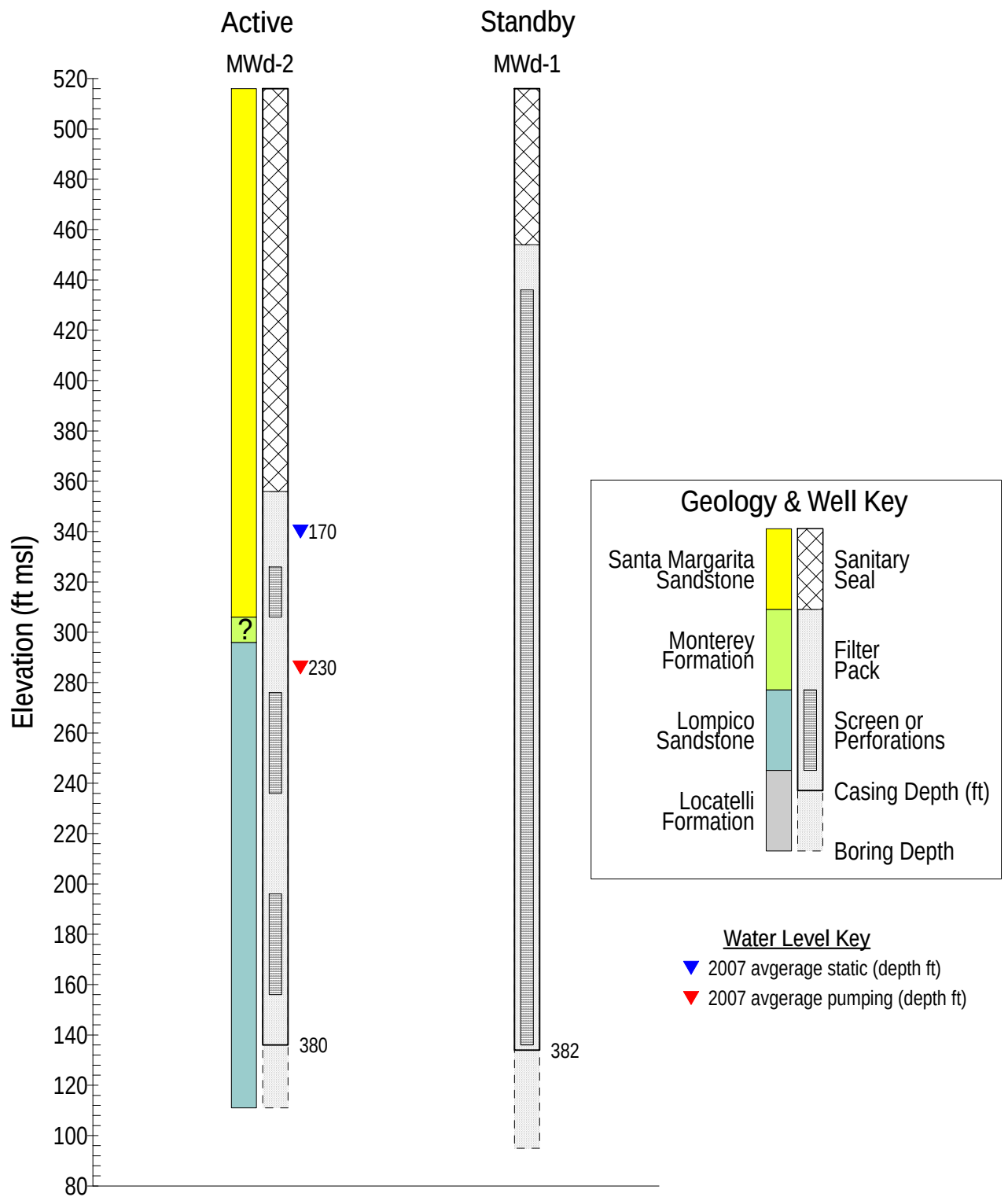


Figure 5-20
Profiles of Active and Former Manana Woods Production Wells

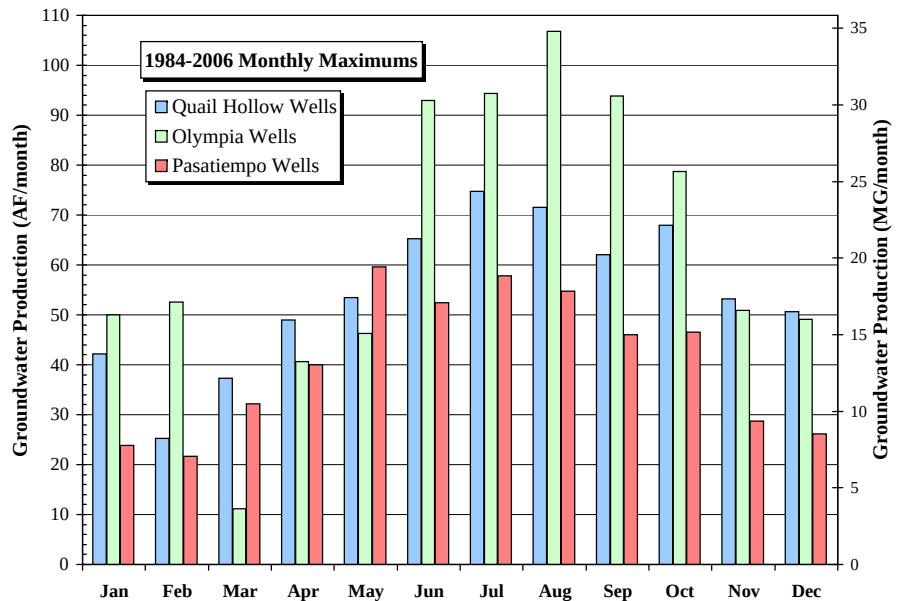
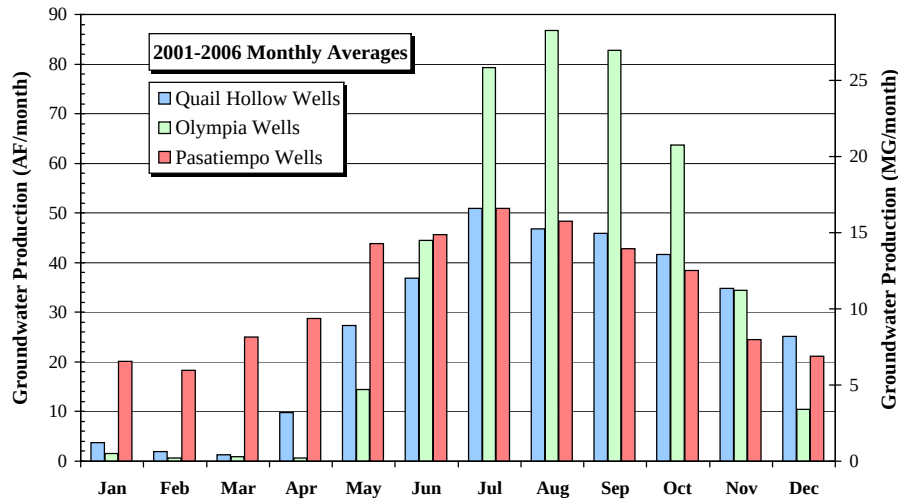
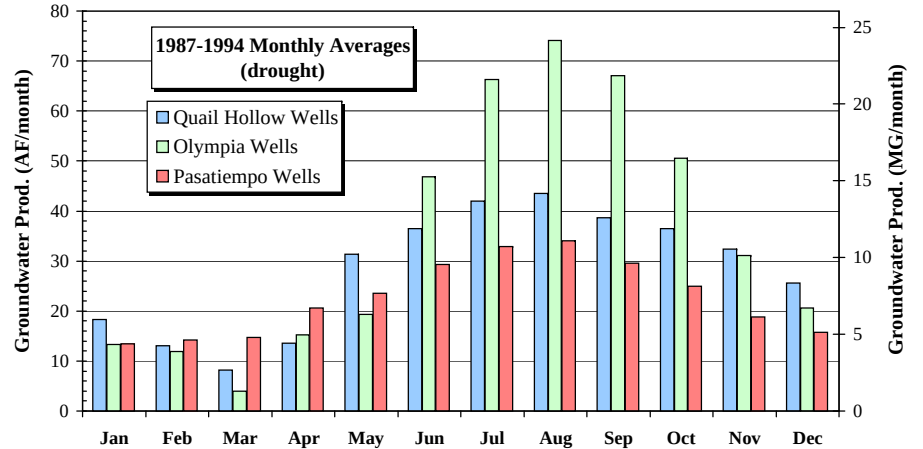
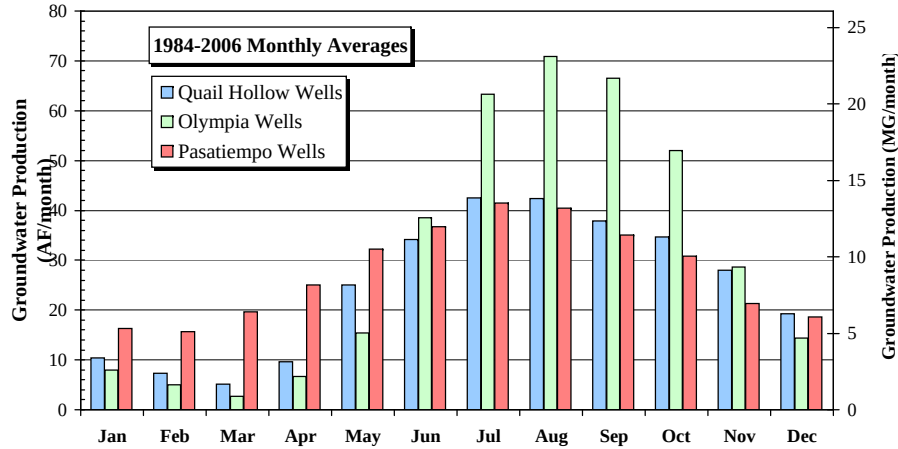


Figure 5-21
Average and Maximum SLVWD Monthly Groundwater Production

Source: see Table 5-6.

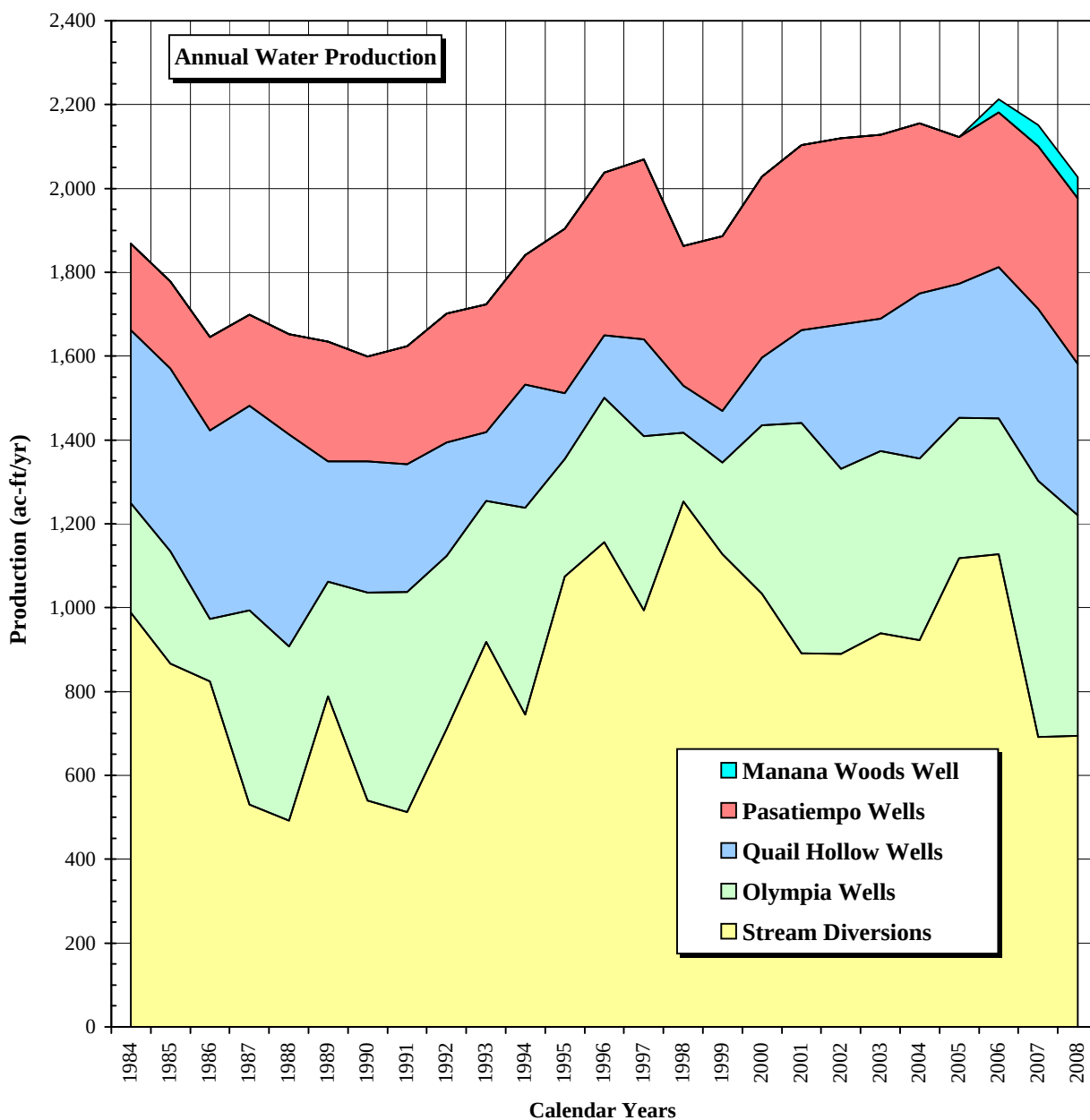
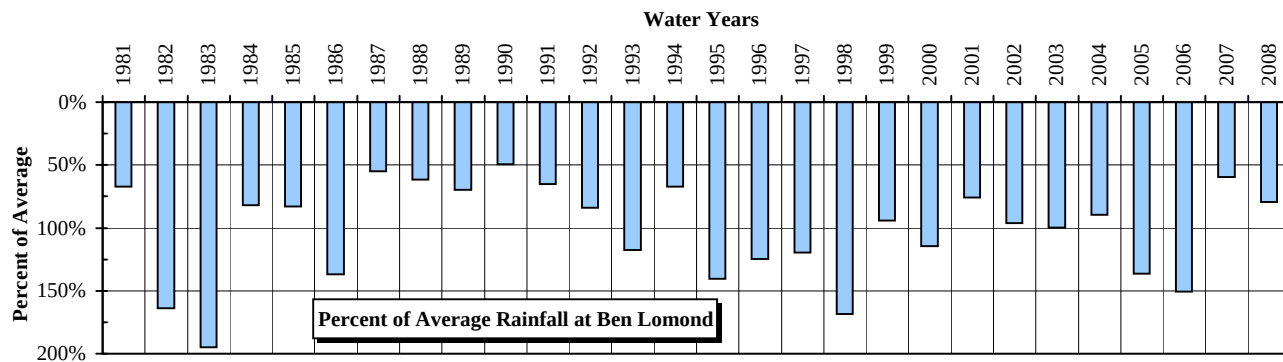


Figure 5-22
SLVWD Surface Water and Groundwater Production, 1984-2008

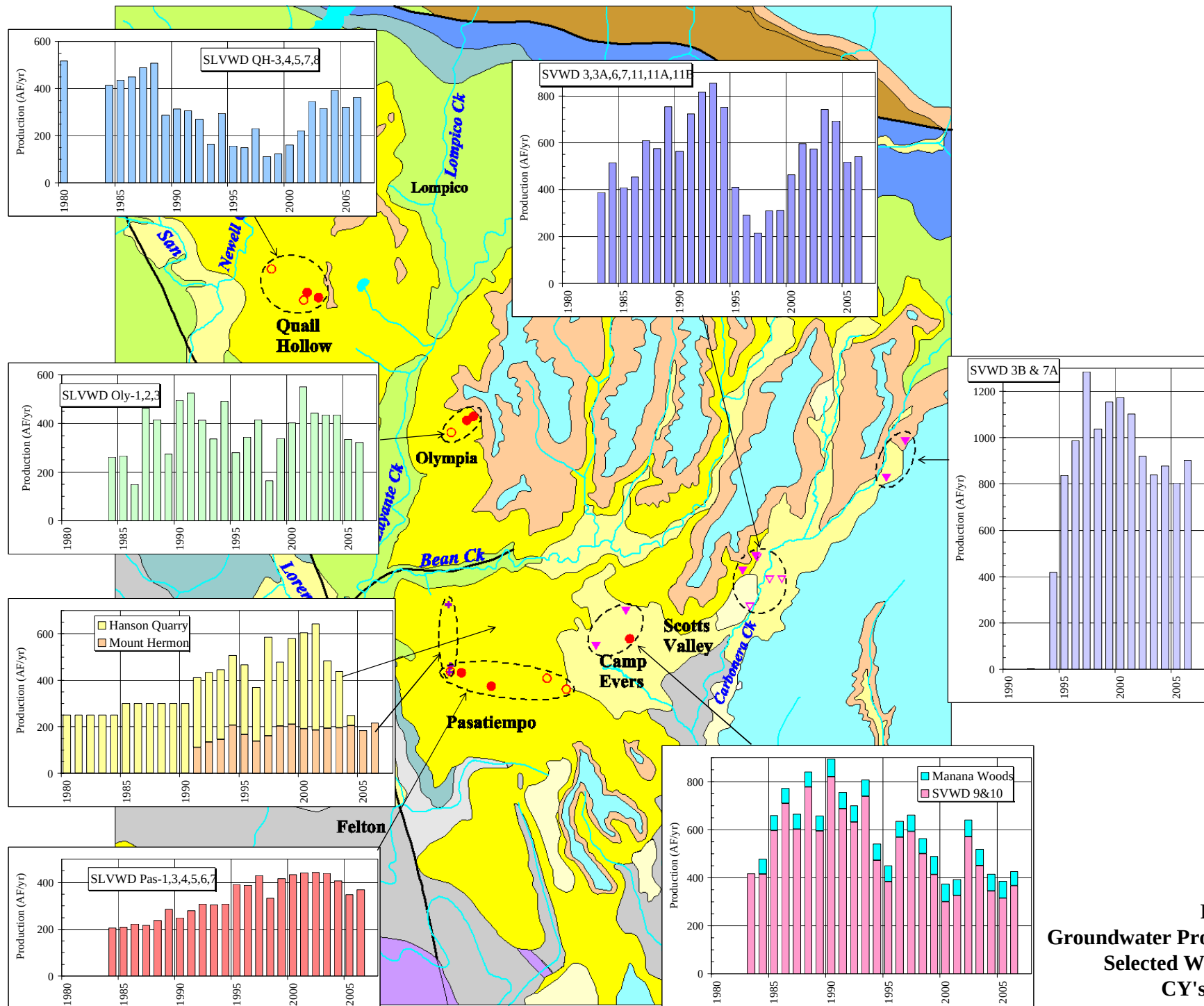


Figure 5-23
Groundwater Production by
Selected Well Groups,
CY's 1984-2006

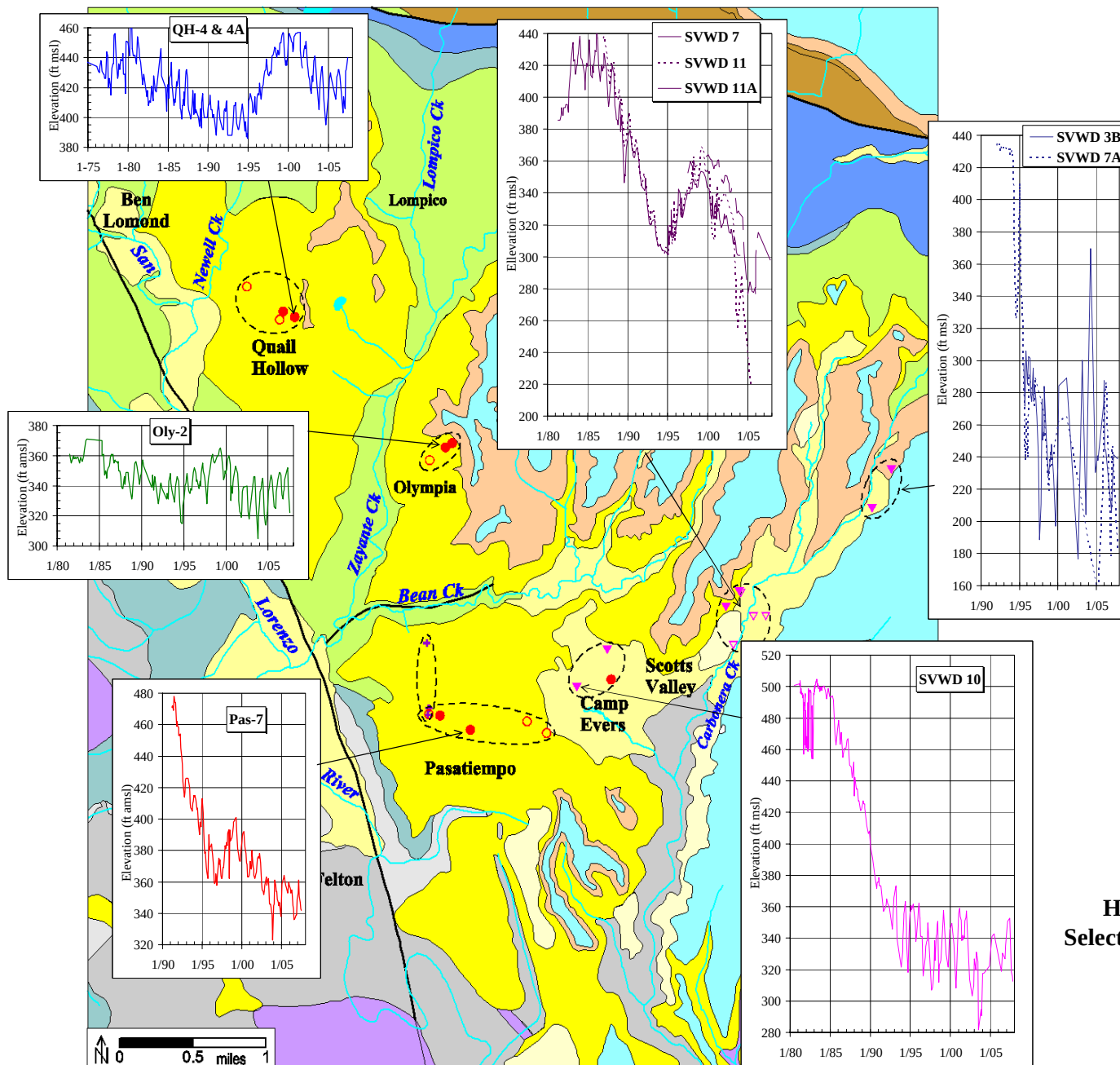


Figure 5-24
Hydrographs of
Selected Production
Well Static
Groundwater
Elevations,
1980-2006

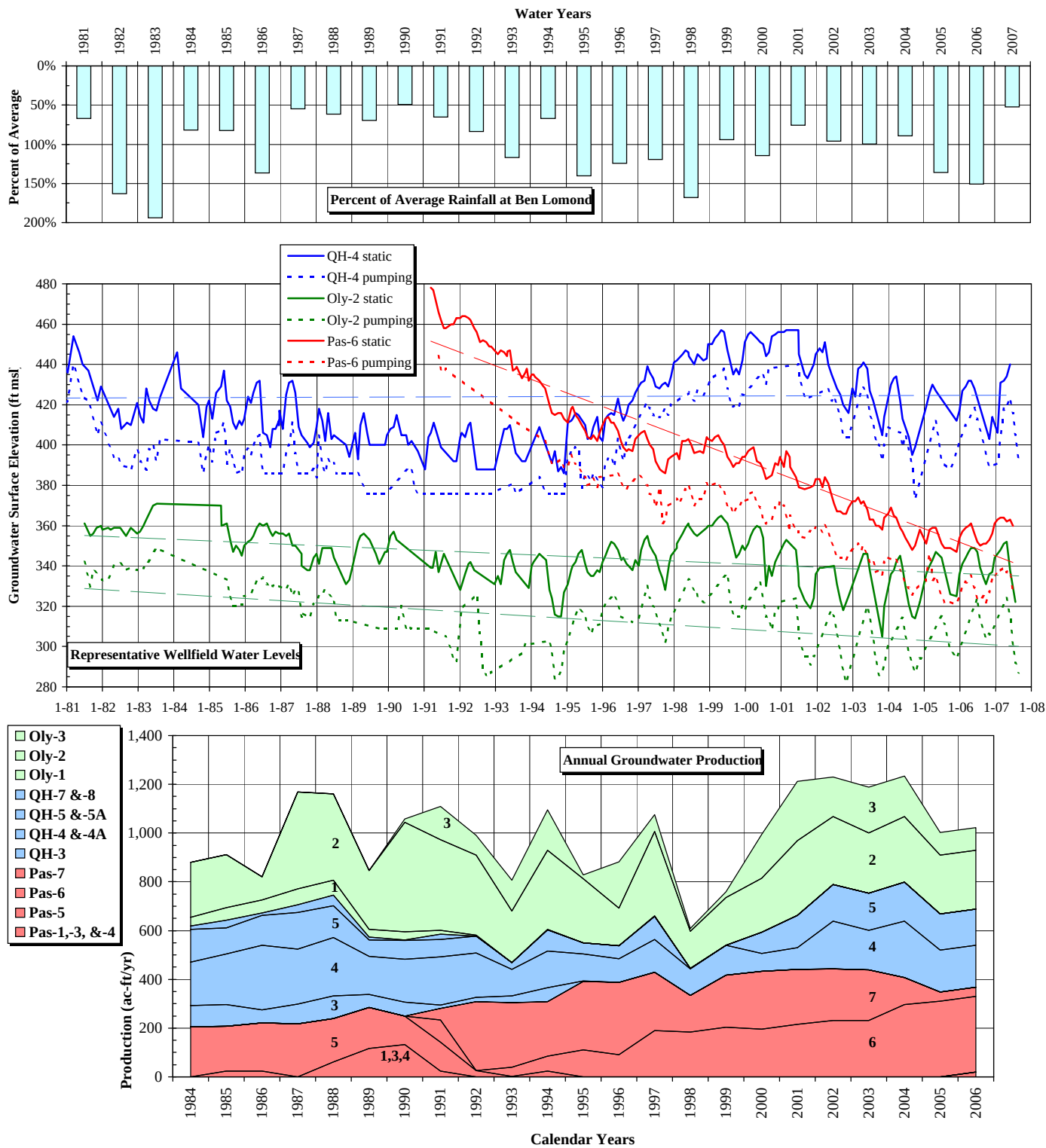
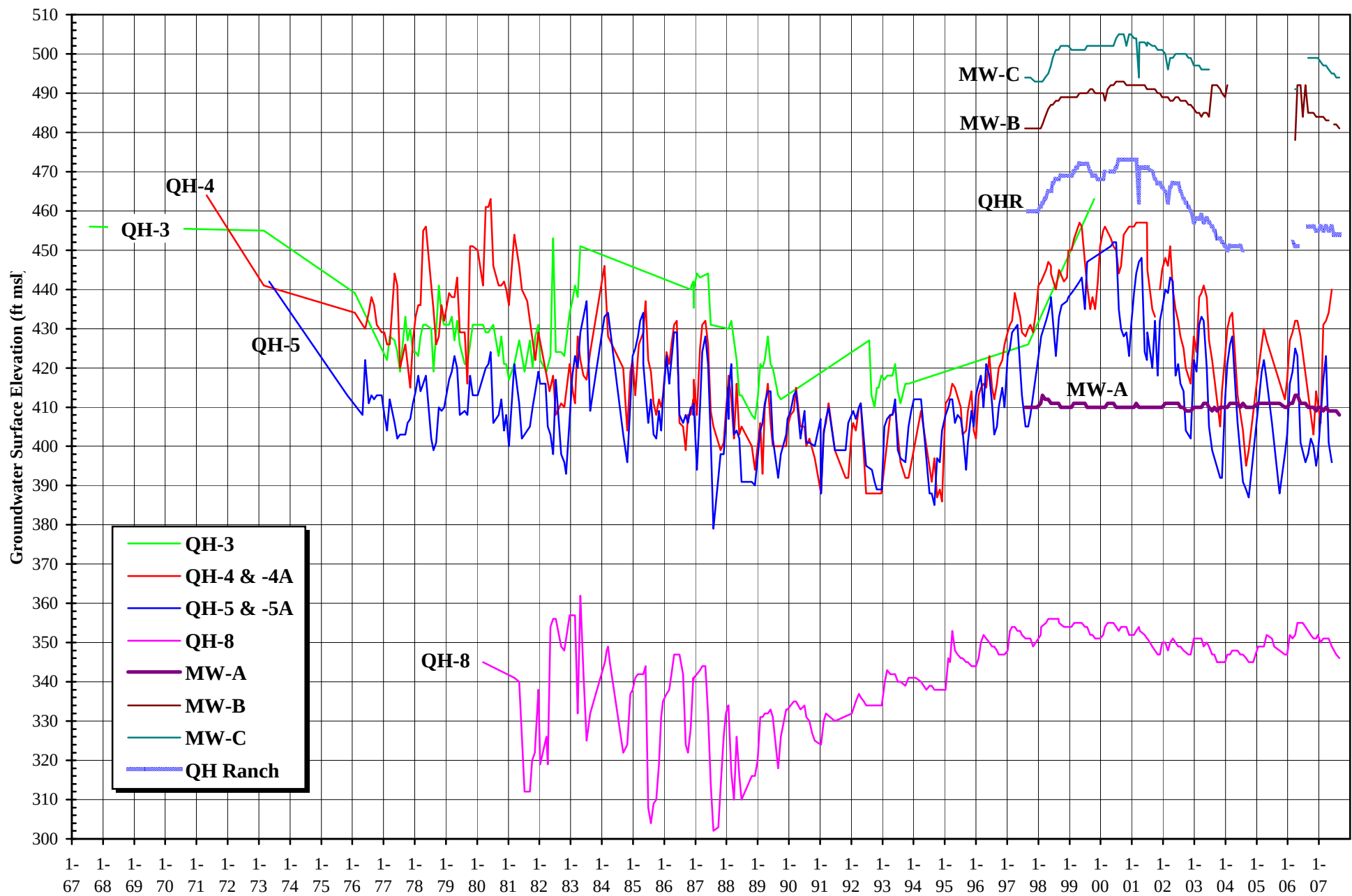
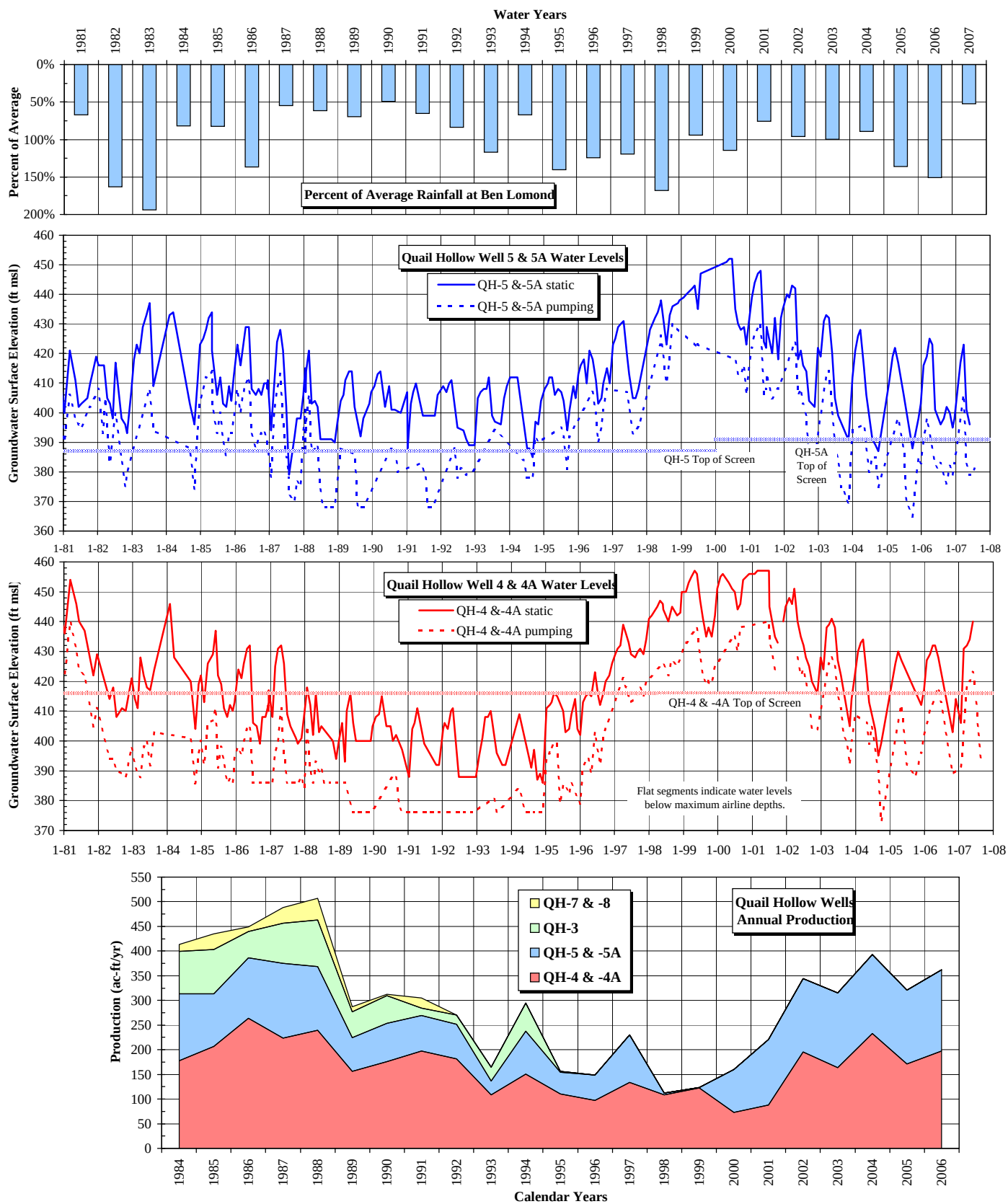


Figure 5-25
Comparison of Representative SLVWD Well Hydrographs



Source: see Tables A-3 and A-

Figure 5-26
SLVWD Quail Hollow Wells Static Water Elevations, 1967-2007



Define static?

Figure 5-27
SLVWD Quail Hollow Wells Production and Water Levels, 1981-2005

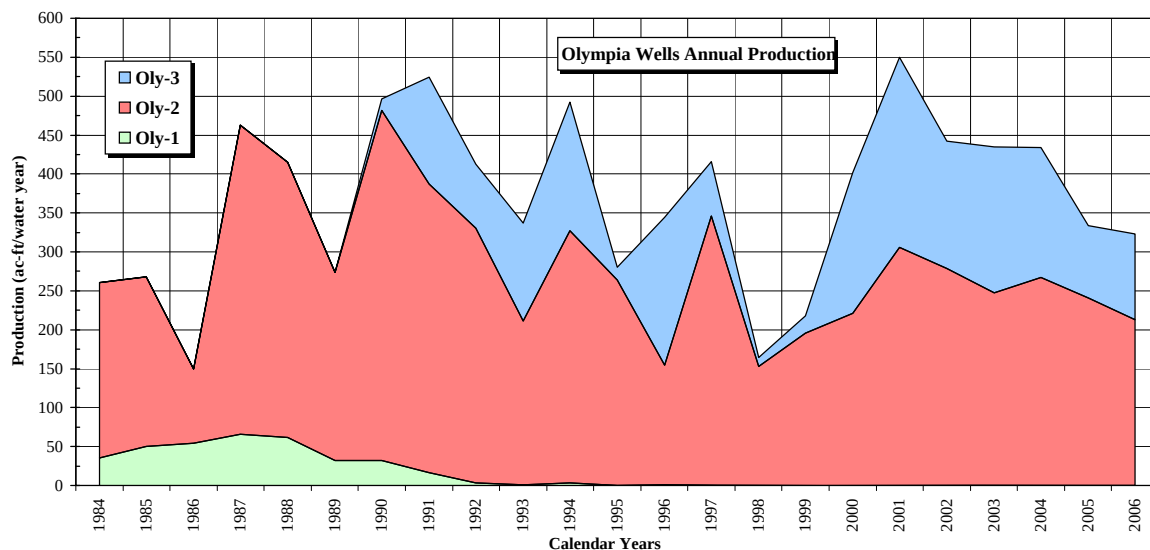
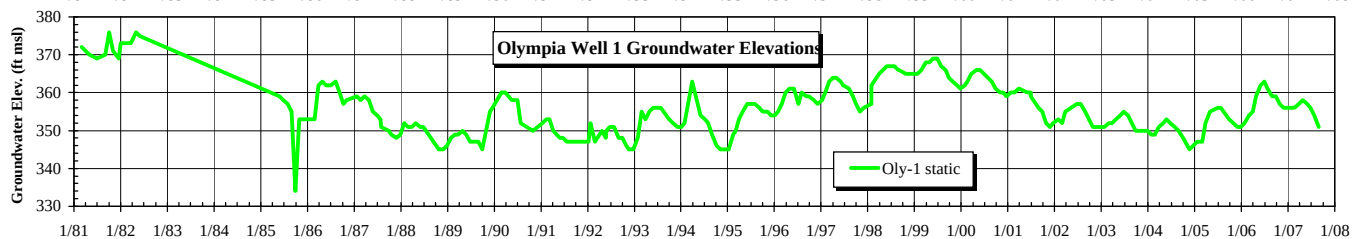
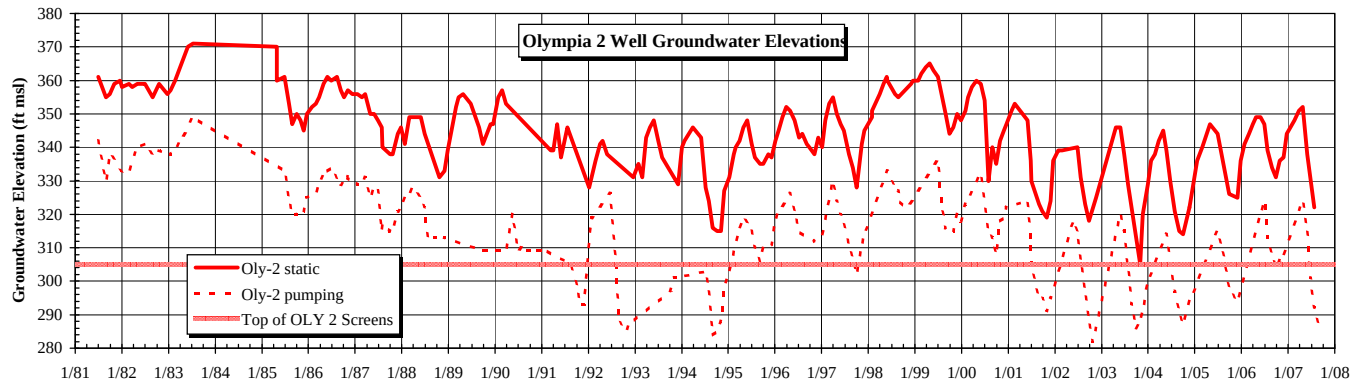
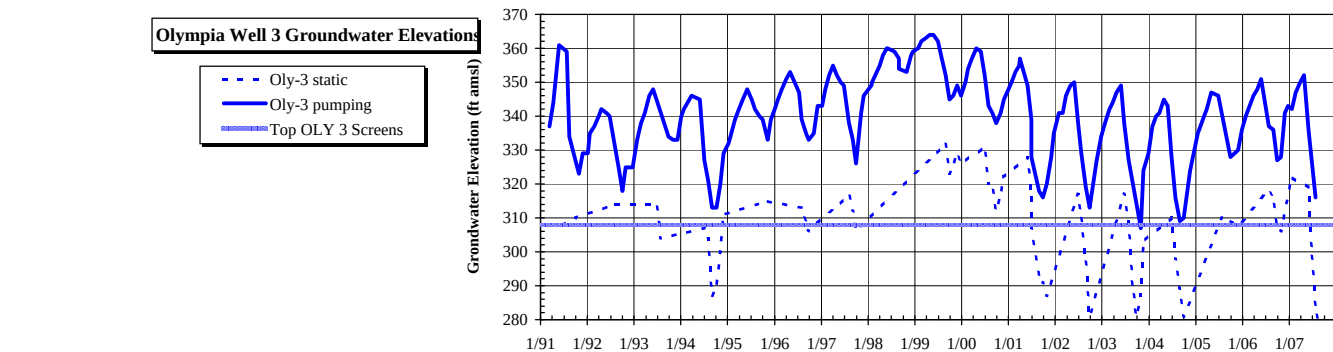
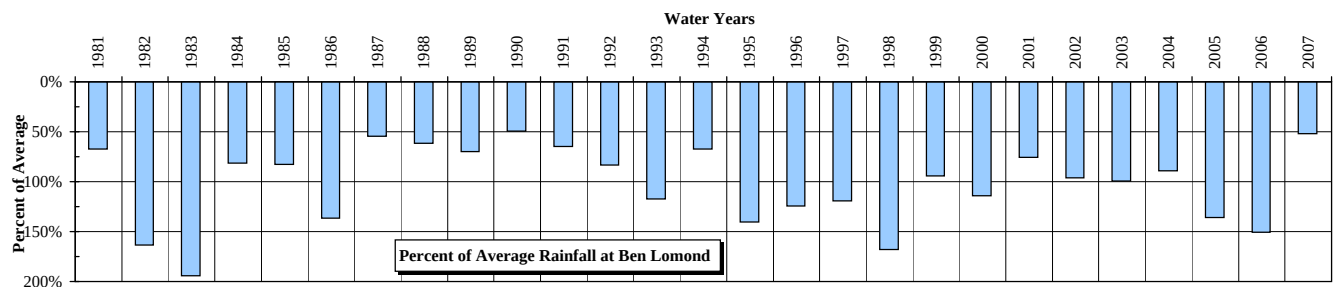


Figure 5-28
SLVWD Olympia Wells Production and Water Levels, 1981-2005

Define static?

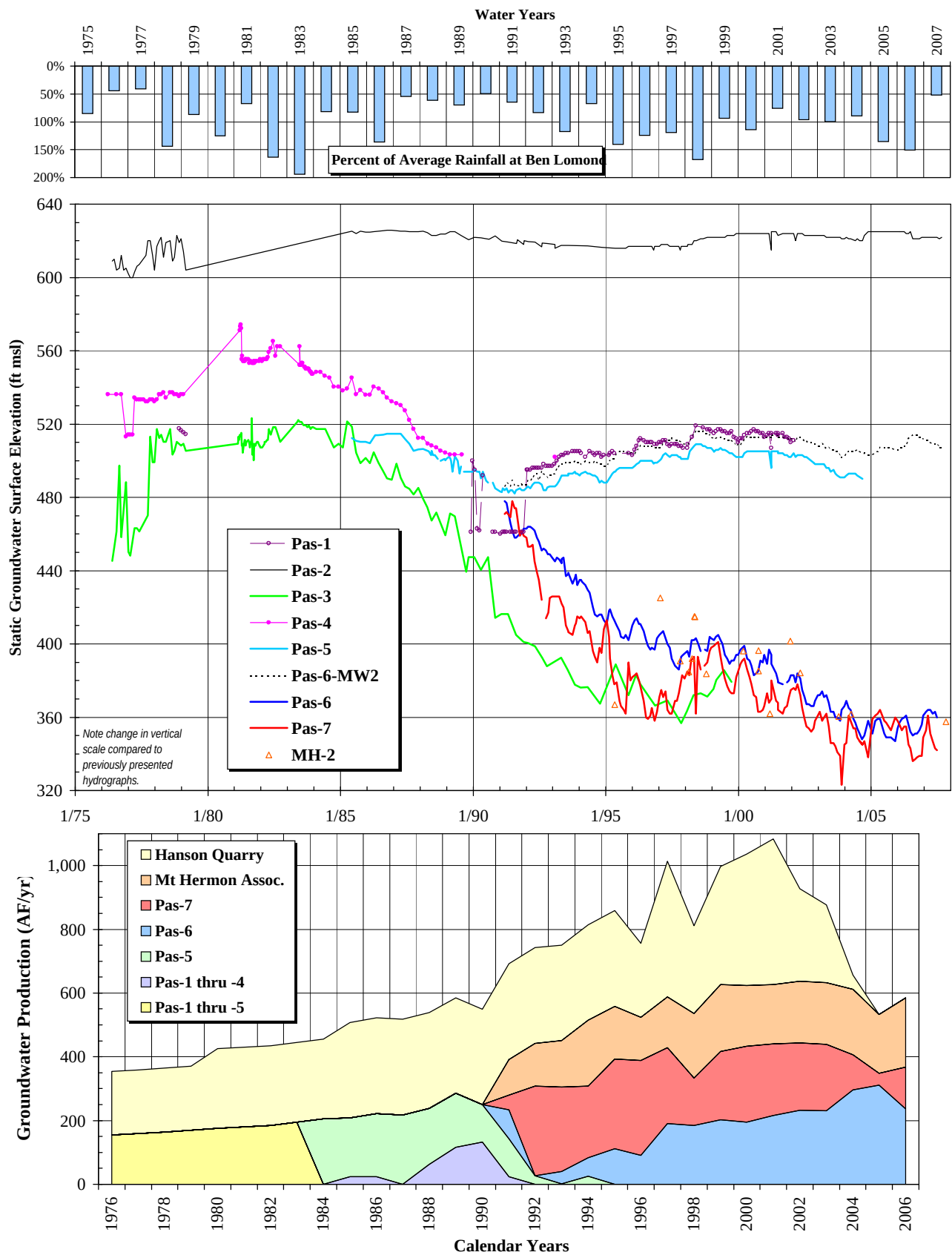


Figure 5-29
Static Water Levels for Selected Pasatiempo Wells, 1975-2007

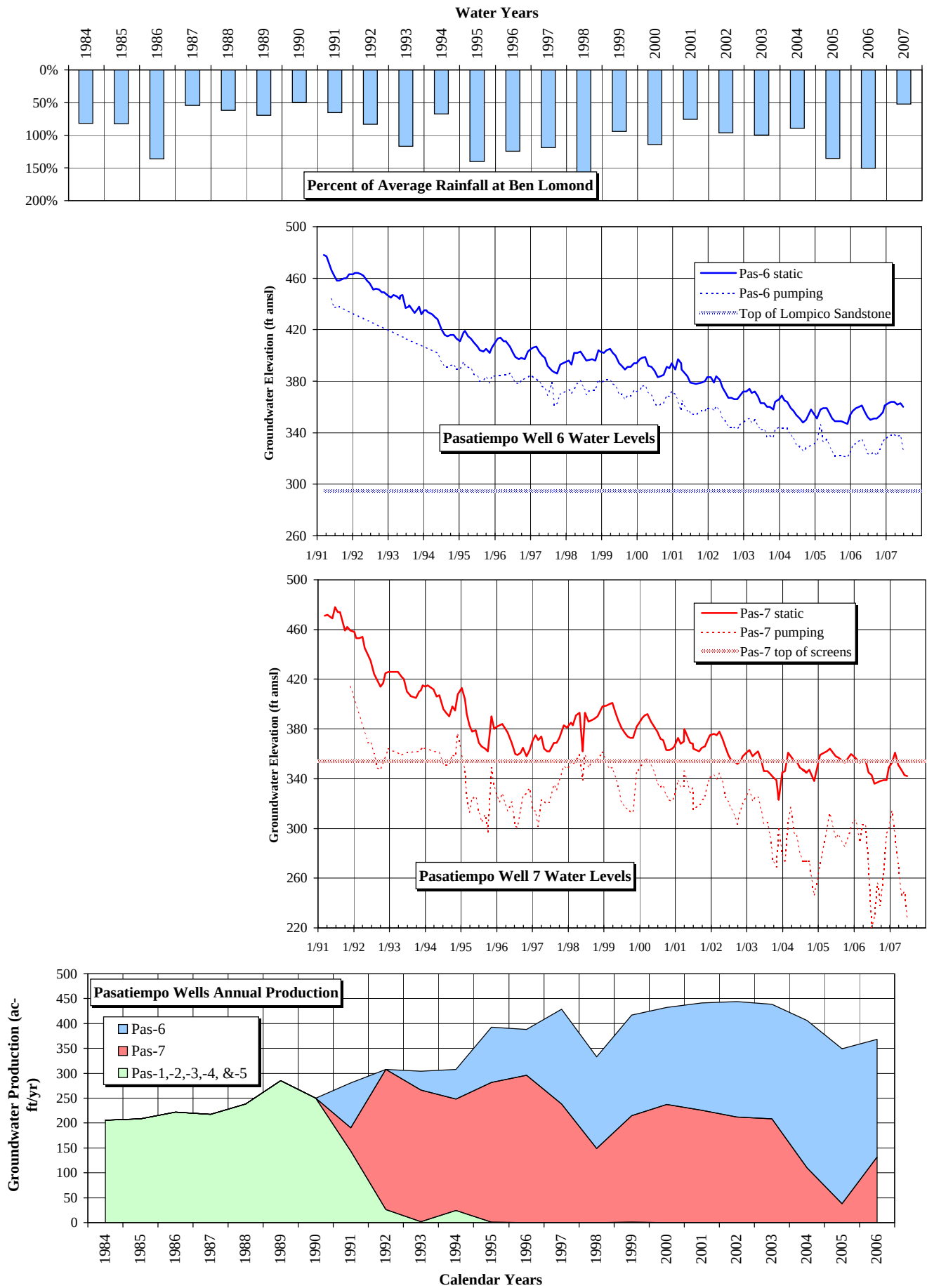


Figure 5-30
SLVWD Pasatiempo Wells Production and Water Levels, 1991-2007

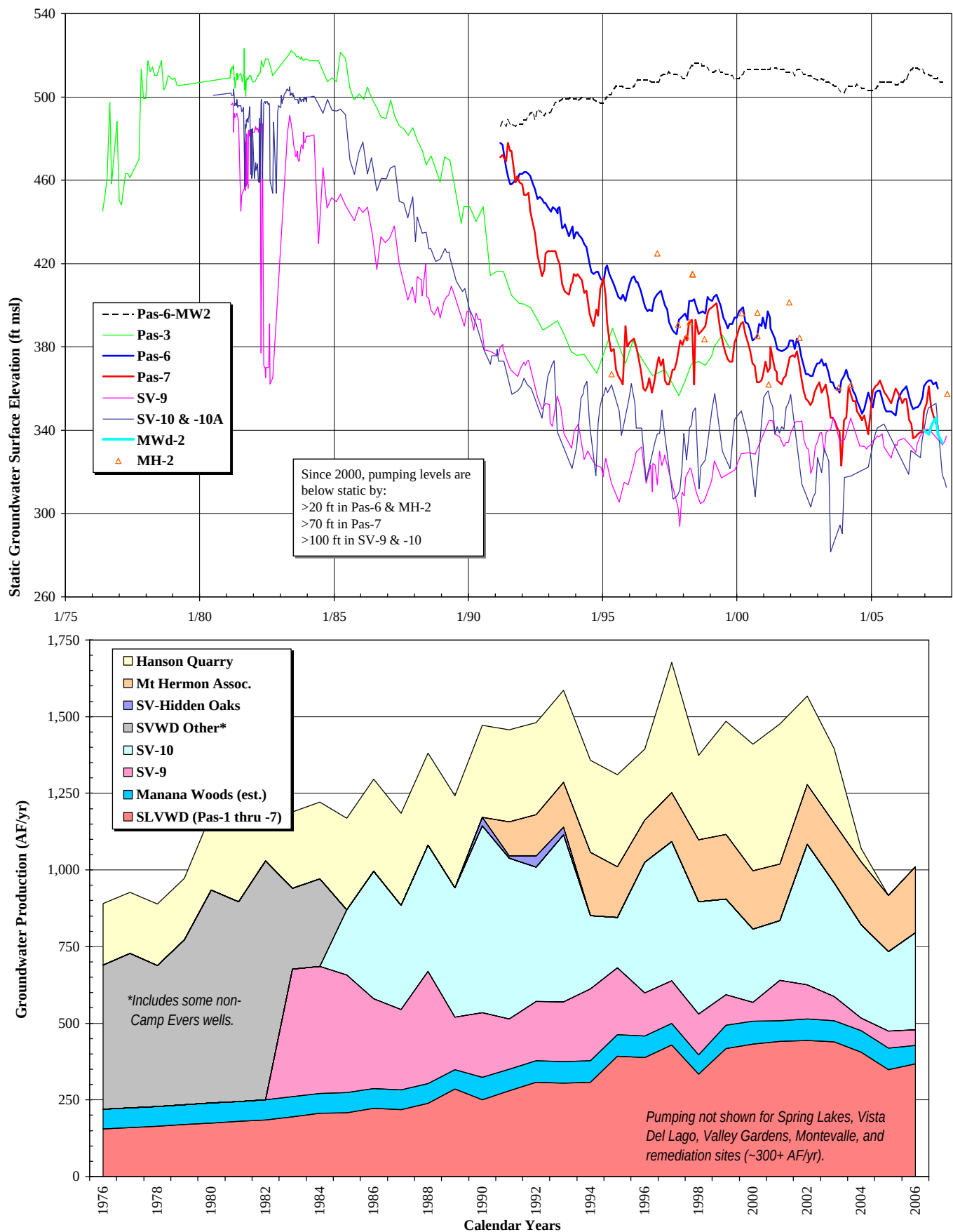


Figure 5-31
Static Water Levels for Selected Pasatiempo and Camp Evers Wells, 1975-2007

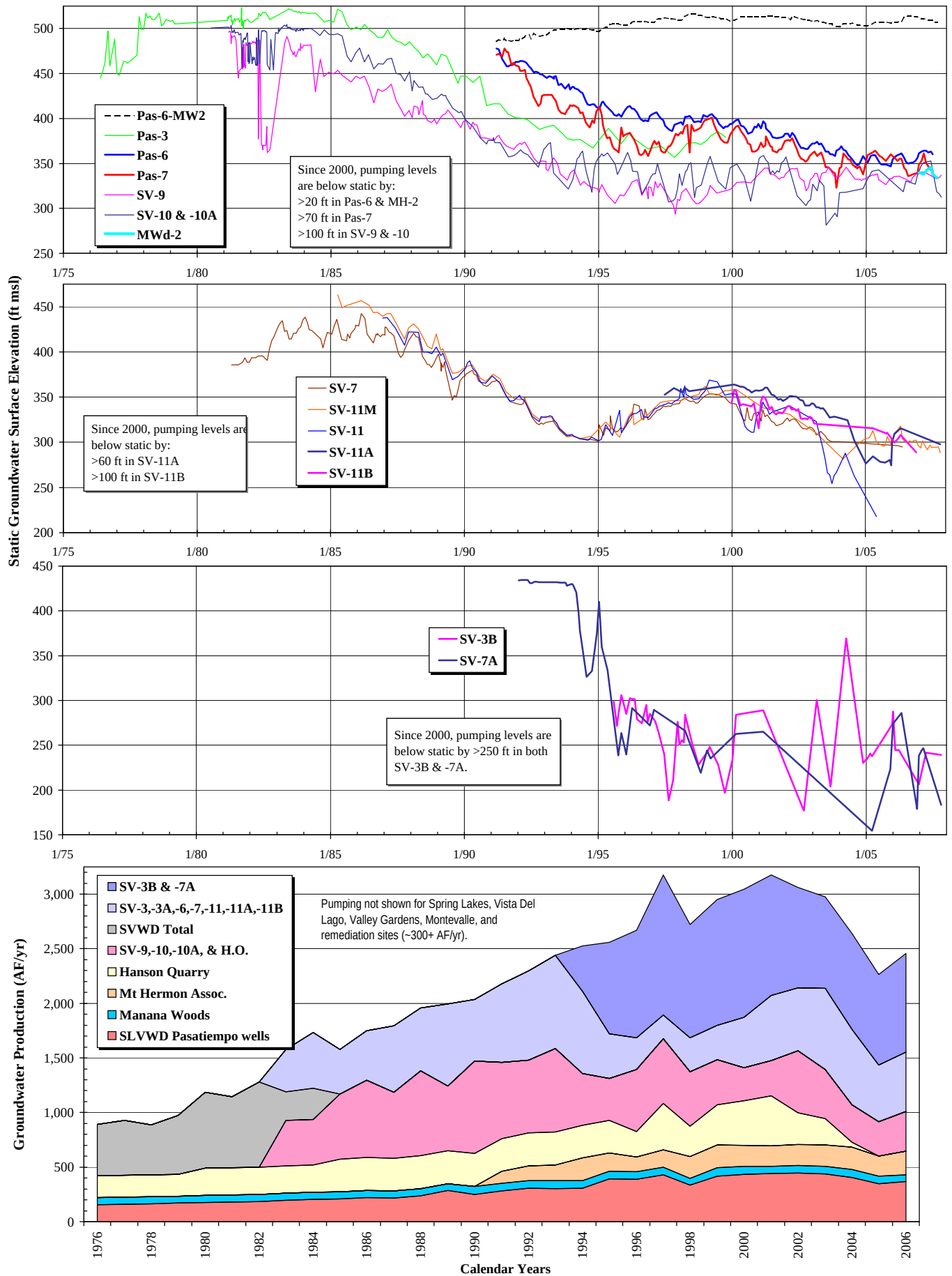
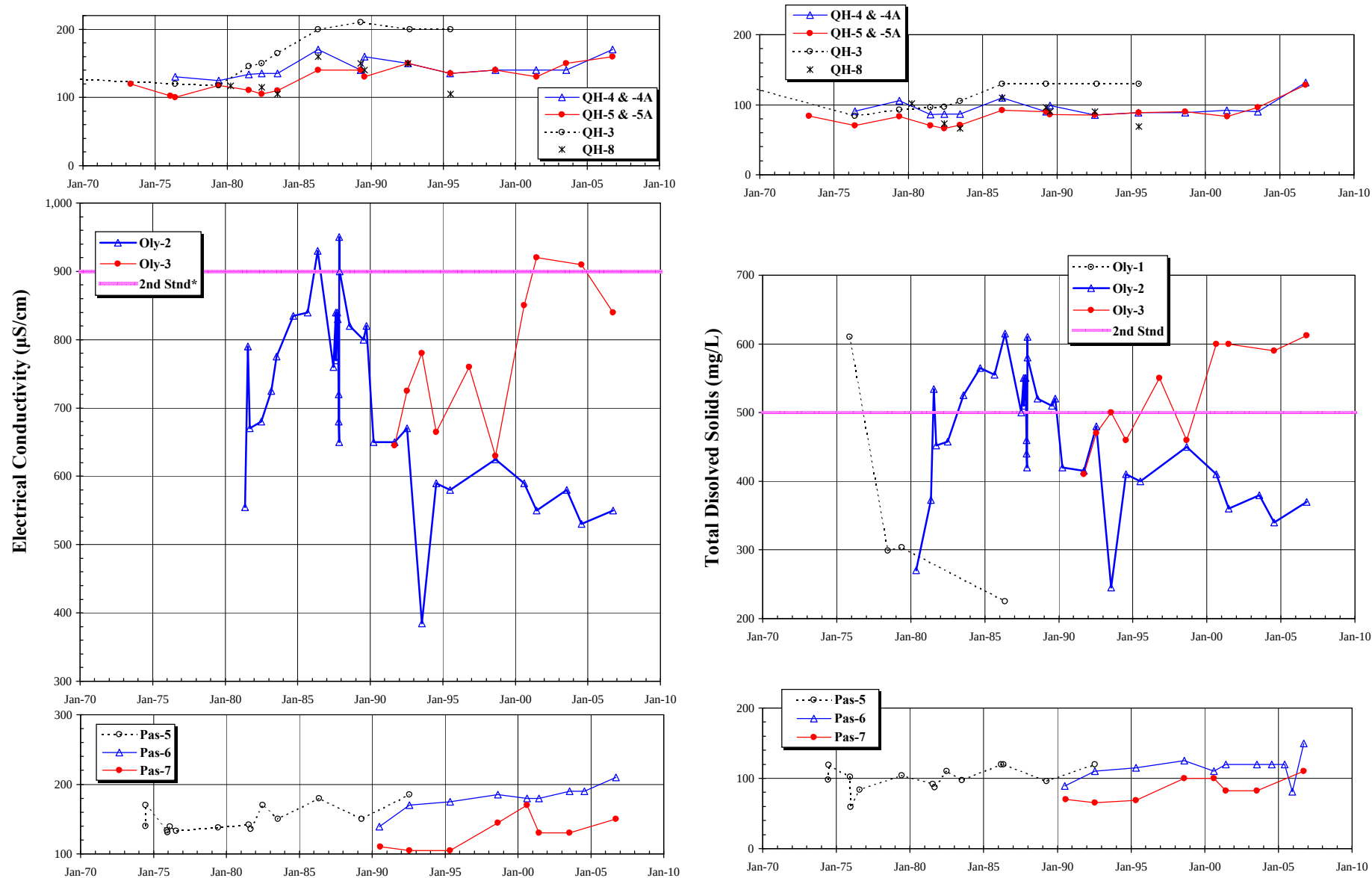
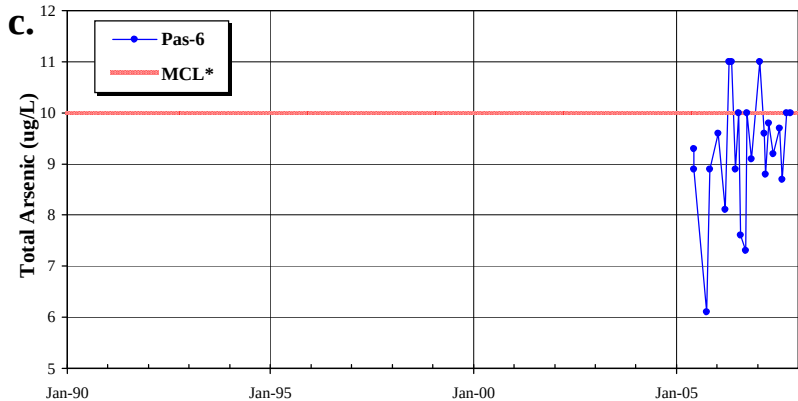
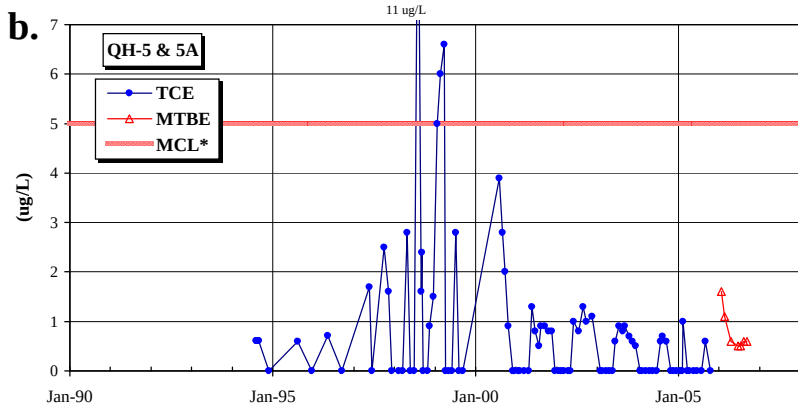
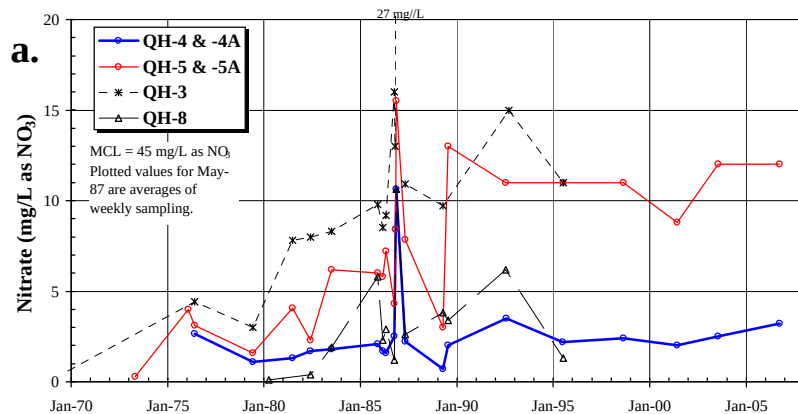


Figure 5-32
Static Water Levels for Selected Pasatiempo, Camp Evers, and Scotts Valley Area Wells, 1975-2007



* Secondary drinking water standard

Figure 5-33
Electrical Conductivity and Total Dissolved Solids Concentration of SLVWD Produced Groundwater, 1970-2007



* MCL = maximum contaminant level of primary drinking water standard.
2nd Stnd = secondary drinking water standard
Note various horizontal and vertical scaling

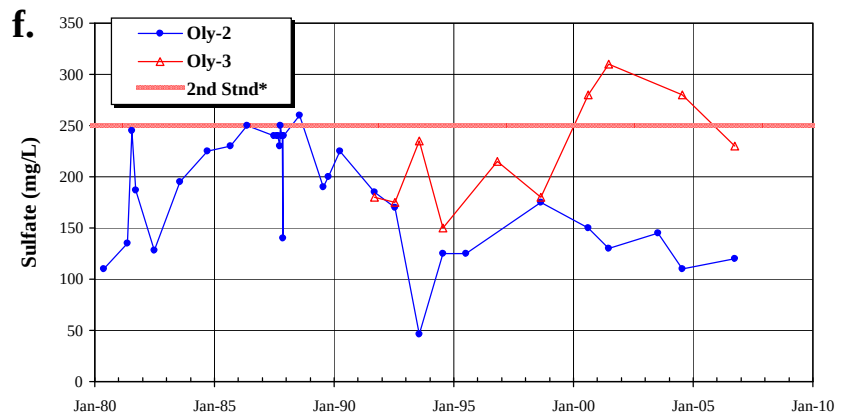
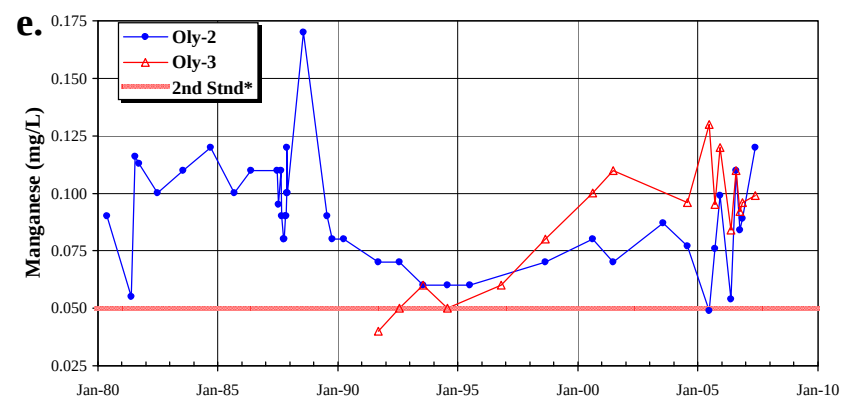
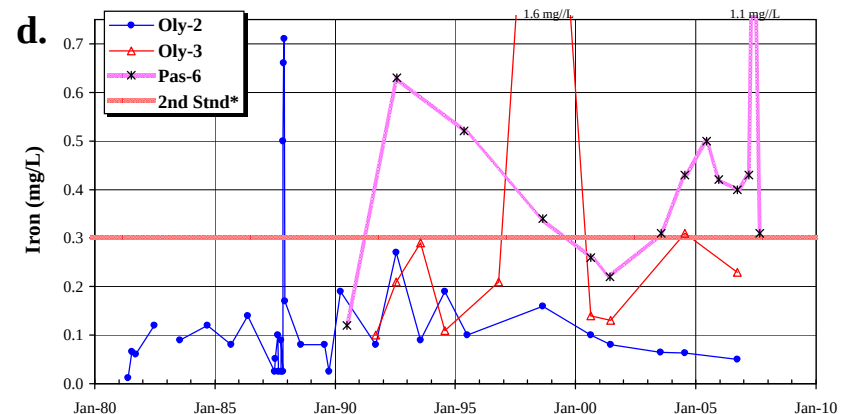
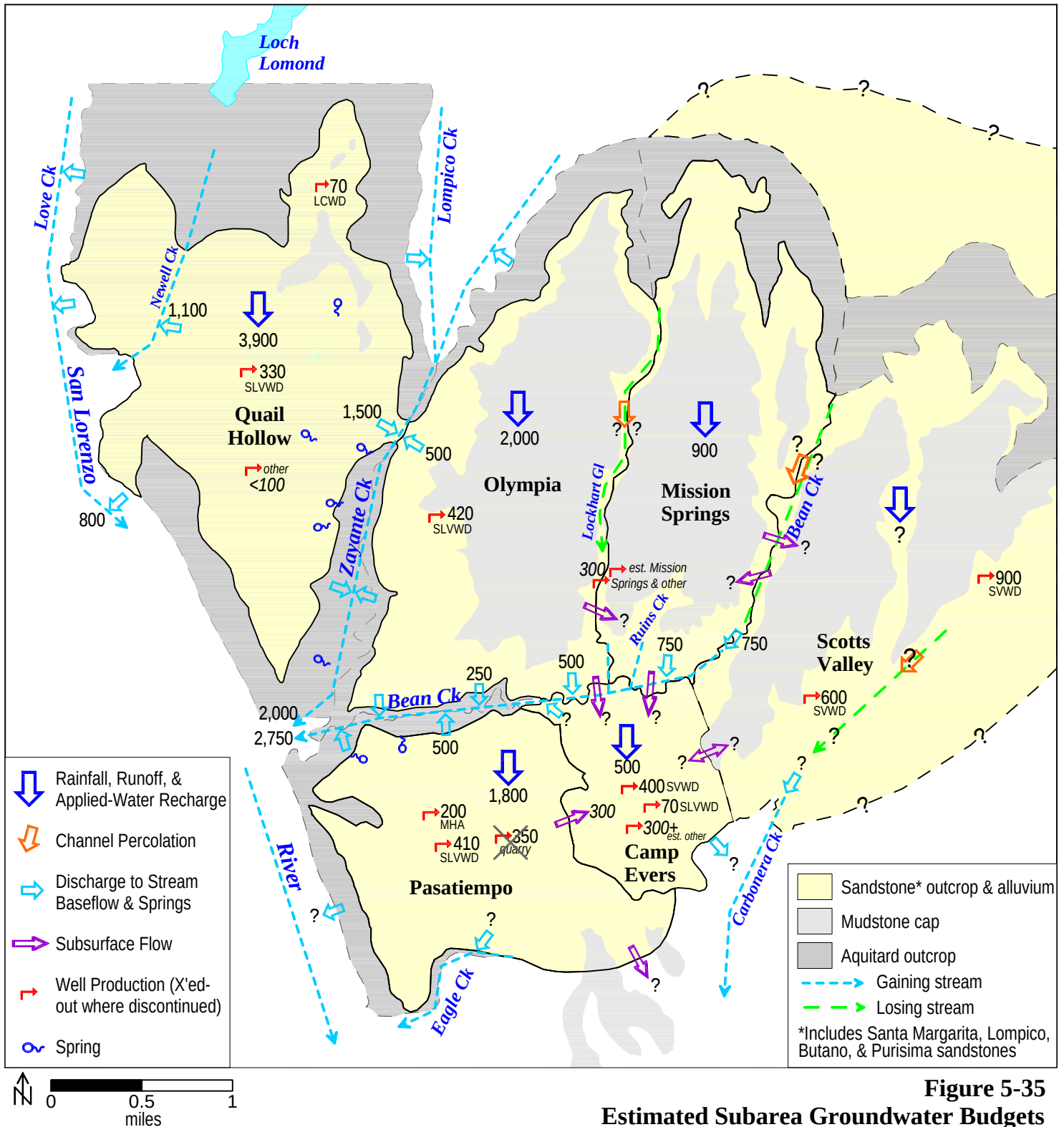


Figure 5-34
Concentrations of Selected Water Quality Constituents in SLVWD Produced Groundwater, 1970-2007



All values are highly approximate except metered pumping by SLVWD, SVWD, and MHA.

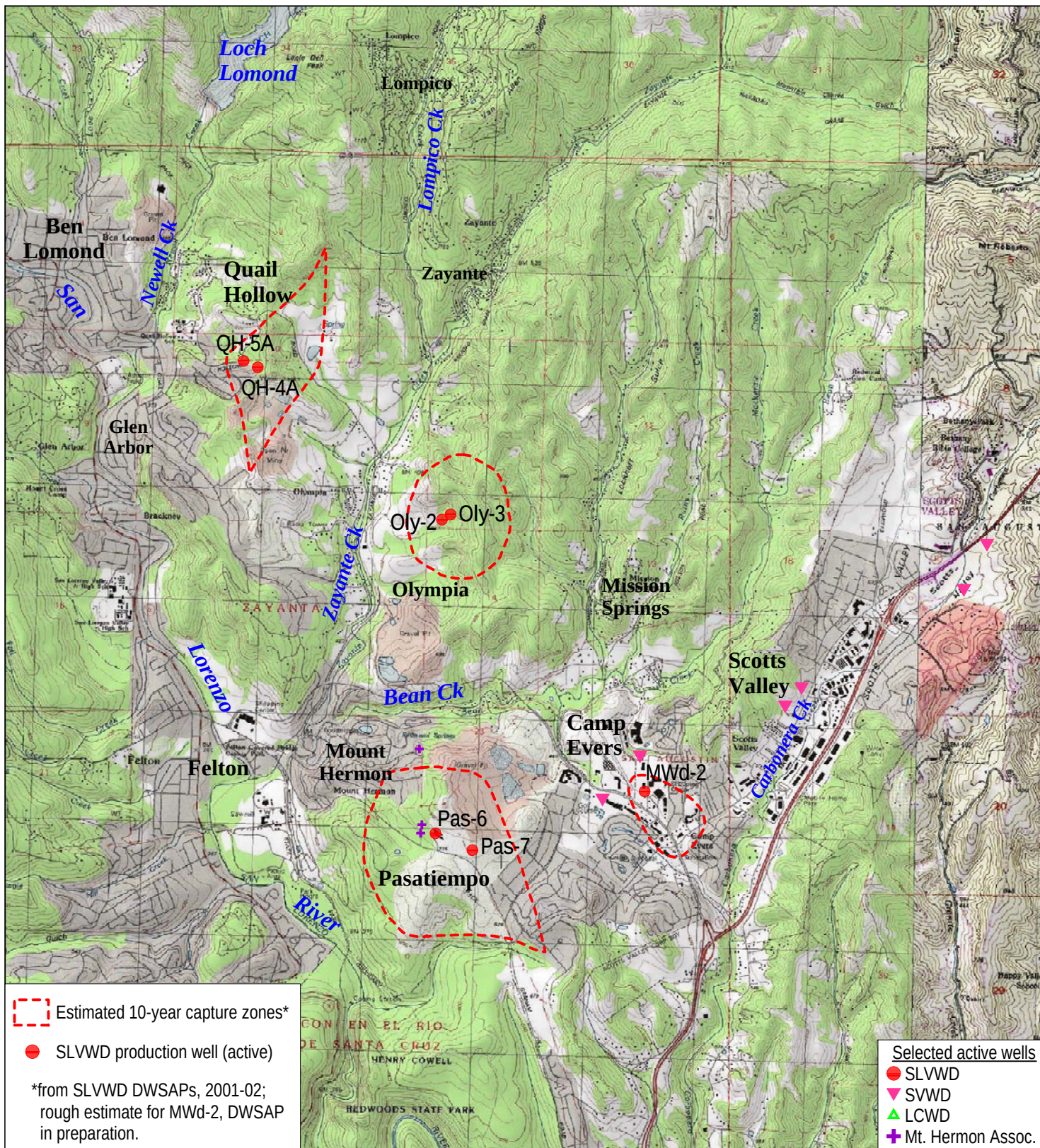


Figure 5-36
Estimated 10-Year Capture Zones of SLVWD Active Wells