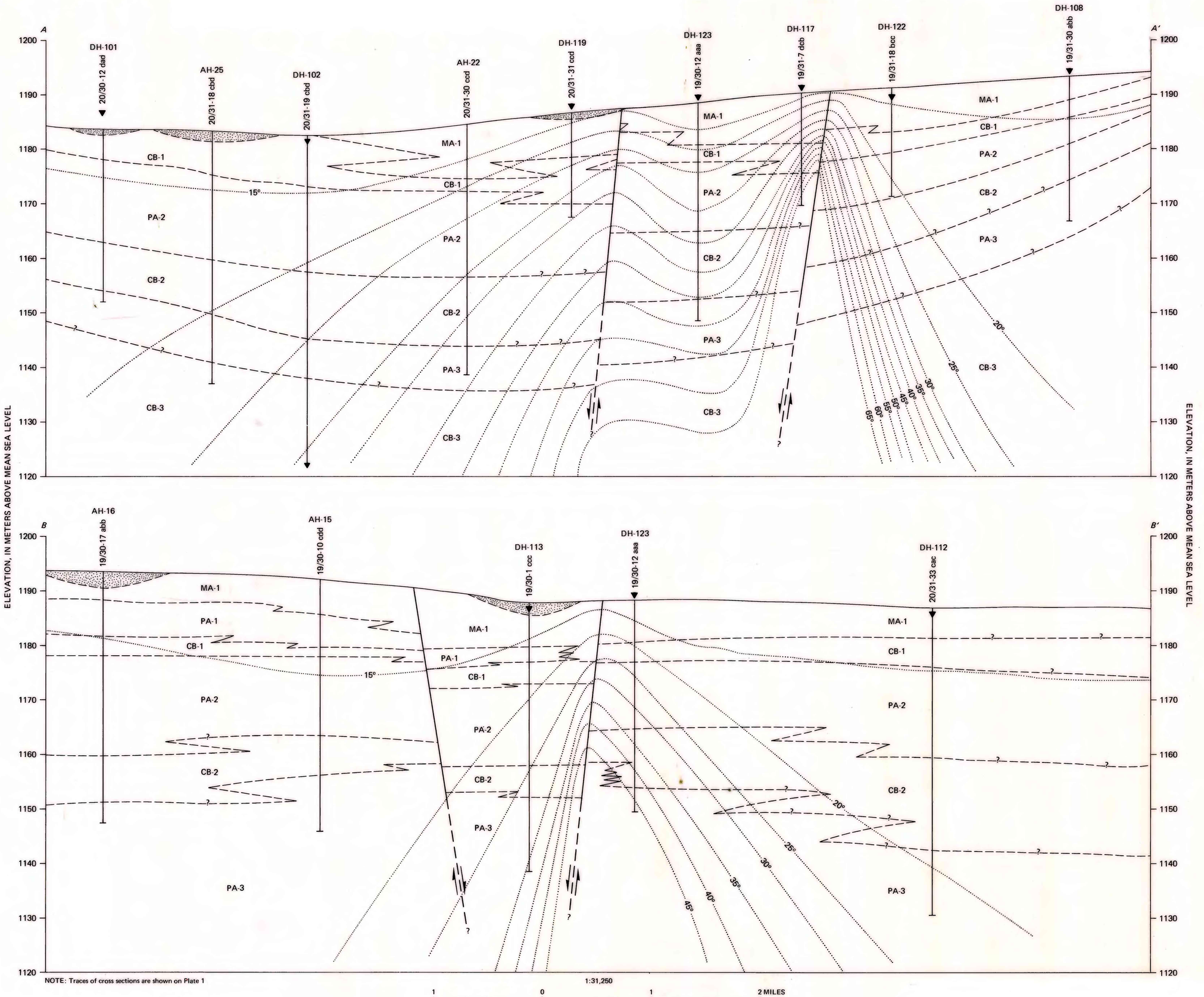

NOTE: Traces of cross sections are shown on Plate 1

1:31,250

1 0 1 2 MILES

1000 0 1000 2000 METERS

Vertical exaggeration 800

HYDROGEOLOGIC UNITS

PA Primary aquifer – Predominantly medium-fine grained water-bearing sands; occasional silty zones and interbedded clays; clays are often black, organic

MA Marginal aquifer – Calcareous clays, silty to sandy with frequent sand and volcanic ash partings; hard calcareous tofa layers are common

CB Aquiclude – Clays, often grading downward to silts and clayey-silts; occasional sandy zones and sand partings, thin shales and shaly clays

Eolian sand – Shallow, localized deposits of windblown sand

} Quaternary

EXPLANATION

Test well

Water level – Computed for imaginary 30m well using vertical hydraulic gradient

Contact – Dashed where approximately located; queried where doubtful

Fault – Dashed where approximately located; arrows indicate direction of relative movement

15° Isotherm – Indicates earth temperature in °C

PLATE 2: GEOLOGIC–TEMERATURE CROSS SECTIONS IN THE STILLWATER GEOTHERMAL AREA, CHURCHILL COUNTY, NEVADA