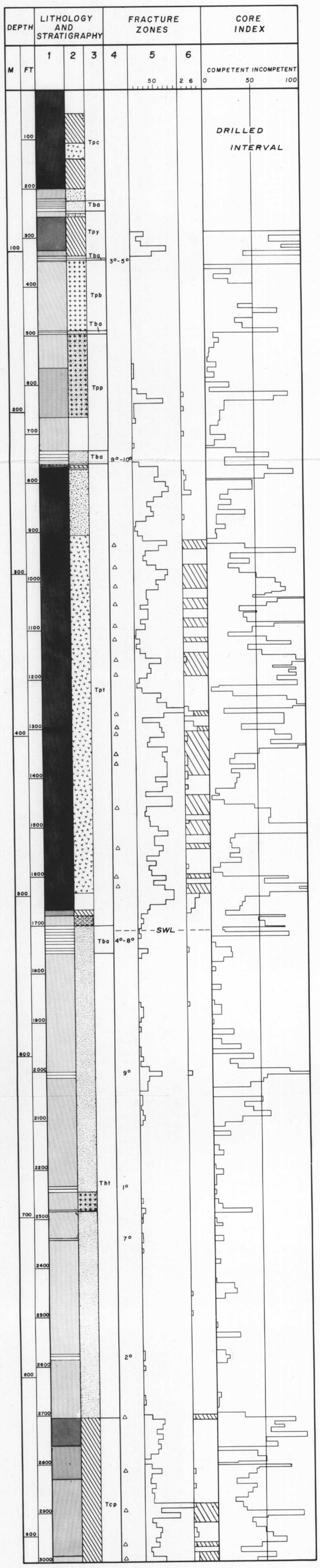
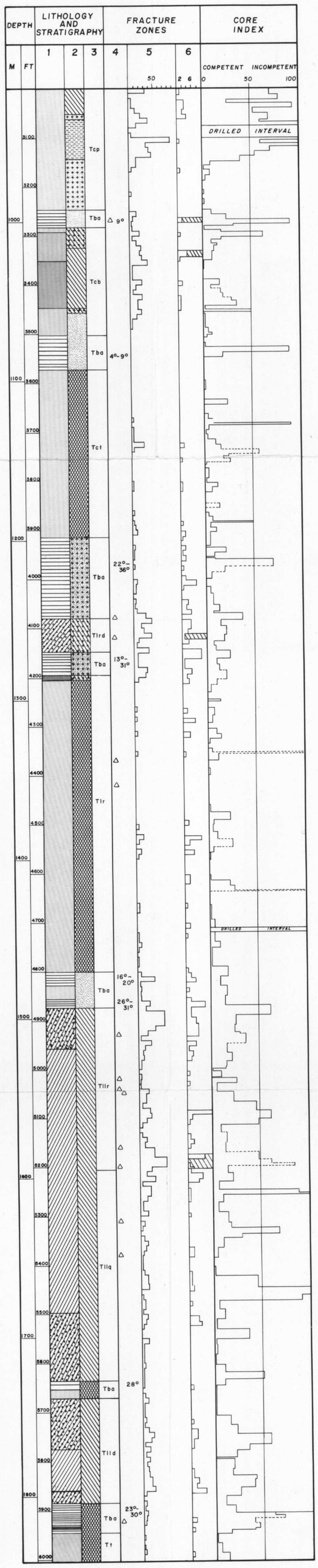
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Prepared on behalf of the Department of Energy

Open – File Report
83-732
Plate 1





EXPLANATION

LITHOLOGY AND STRATIGRAPHY

(1) Welded, breccia, and bedded zones

densely welded
densely to moderately welded
moderately welded
moderately to partially welded
nonwelded to partially welded
vitrophyre
bedded
lava
lava and flow breccia

(2) Crystallized and altered zones

vitric
(partly argillic)
devitrified
(partly argillic)
vapor phase
lithopysal (devitrified)
argillized
zeolitized
zeolitized (argillic) (silicified)

(3) Stratigraphic units

Paintbrush Tuff
Tiva Canyon Member.....Tpc
Bedded tuff.....Tba
Yucca Mountain Member.....Tpy
Bedded tuff.....Tba
Bedded tuff (ash flow).....Tpb
Bedded tuff.....Tba
Pah Canyon Member.....Tpp
Bedded tuff.....Tba
Topopah Spring Member.....Tpt
Bedded tuff.....Tba
Tuffaceous beds of Calico Hills.....Tht
Crater Flat Tuff
Prow Pass Member.....Tcp
Bedded tuff.....Tba
Bullfrog Member.....Tcb
Bedded tuff.....Tba
Tram unit.....Tct
Bedded tuff.....Tba
Lava and flow breccia (rhyodacitic).....Tlrd
Bedded tuff.....Tba
Tuff of Lithic Ridge.....Tlr
Bedded and ash-flow tuff.....Tba
Lava and flow breccia (rhyolitic).....Tllr
Lava and flow breccia (quartz latitic).....Tllq
Bedded and ash-flow tuff.....Tba

(3) Stratigraphic units--Continued

Lava and flow breccia (dacitic).....Tlld
Bedded tuff, conglomerate, and ash-flow tuff.....Tba
Older tuffs of USW-G2.....Tt

(4) Dips of tuffaceous sediments and some airfall tuffs.
Triangles indicate possible tectonic breccias

(5) Number of fractures (joints and shear) per 3-m interval

(6) Number of shear fractures per 3-m interval

Fault zones greater than 1.5 m thick

Core Index

$$\text{Core Index} = \frac{\text{core broken (m)} + \text{core loss (m)} + 1/10 \text{ number of fractures}}{\text{drilled interval (m)}} \times 100$$

Indicates core indices resulting from mechanical problems during coring

SWL Approximate static water level

D-01

Plate showing lithologic and structural features of drill hole USW G-2