Department of the Interior
United States Geological Survey

Prepared on behalf of the Department of Energy

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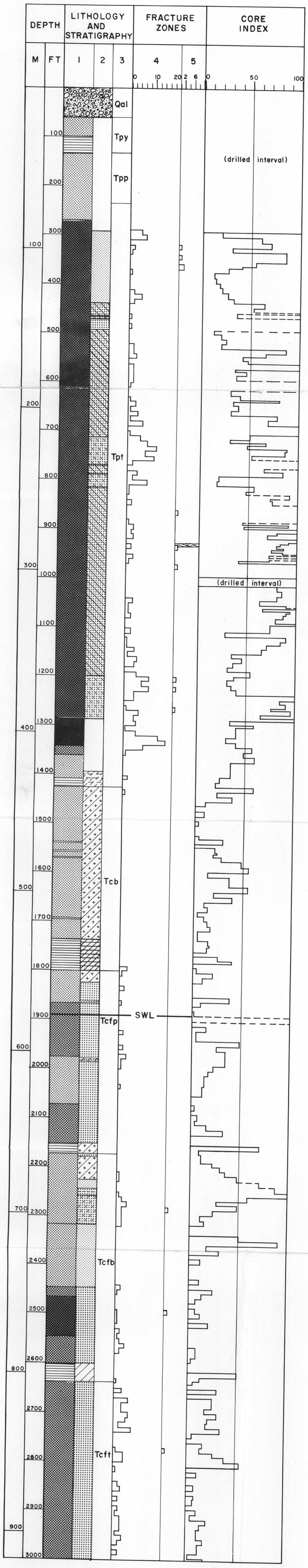
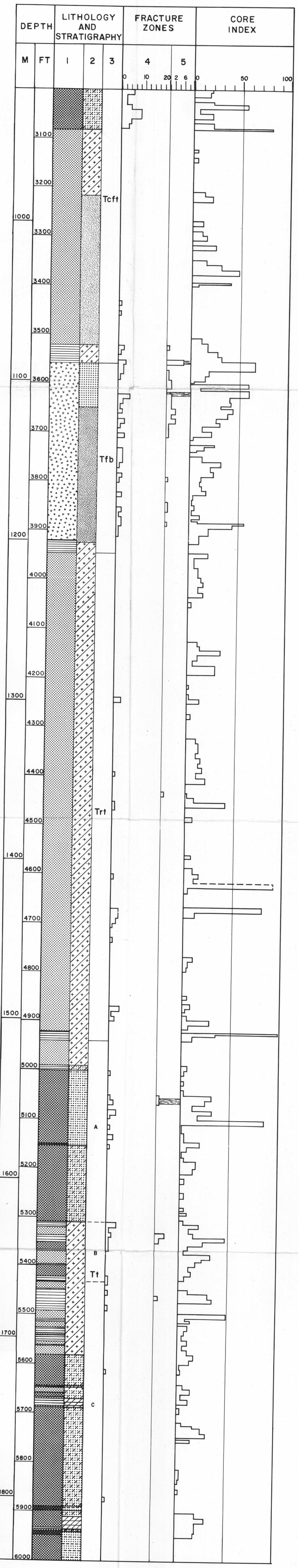
Plate 1





EXPLANATION

LITHOLOGY AND STRATIGRAPHY

(1) Welded, breccia, and bedded zones

densely welded; moderately welded; non- to partially welded; vitrophyre; bedded; flow breccia; alluvium

(2) Crystallized and altered zones

vitric; vapor phase; devitrified; lithophysal (devitrified) — sparse, abundant; devitrified or vapor phase (slightly zeolitized); devitrified or vapor phase (slightly silicified); devitrified (slightly argillic); zeolitized; zeolitized (slightly argillic); zeolitized and argillic (contains pyrite); zeolitized and silicified — upper – slightly, lower – moderately

(3) Stratigraphic units

Alluvium ..... Qal
Paintbrush Tuff
- Yucca Mountain Member ..... Tpy
- Pah Canyon Member ..... Tpp
- Topopah Spring Member ..... Tpt

Tuffaceous beds of Calico Hills ..... Tcb
Crater Flat Tuff
- Prow Pass Member ..... Tcfp
- Bullfrog Member ..... Tcfb
- Tram unit (informal) ..... Tcft

Flow breccia ..... Tfb
Lithic-rich tuff ..... Trt
Older ash-flow and bedded tuff ..... Tt
- Unit A; Unit B; Unit C

FRACTURE ZONES

(4) Joints

0 10

Number of measured joint planes per 10-foot interval

(5) Shear fractures

0 6

Number of fracture planes per 10-foot interval along which differential movement was recognized

Fault zones (5 feet or greater in thickness)

CORE INDEX

$$\text{Core index} = \frac{(\text{ft broken}) + (\text{ft core loss}) + (1/3\ \text{joints})}{(\text{drilled interval, ft})} \times 100$$

– – – – – – Indicates core indices resulting from mechanical difficulties during coring

SWL — Approximate static water level

LITHOLOGIC AND STRUCTURAL FEATURES OF USW-G1, YUCCA MOUNTAIN, NYE COUNTY, NEVADA

D-02