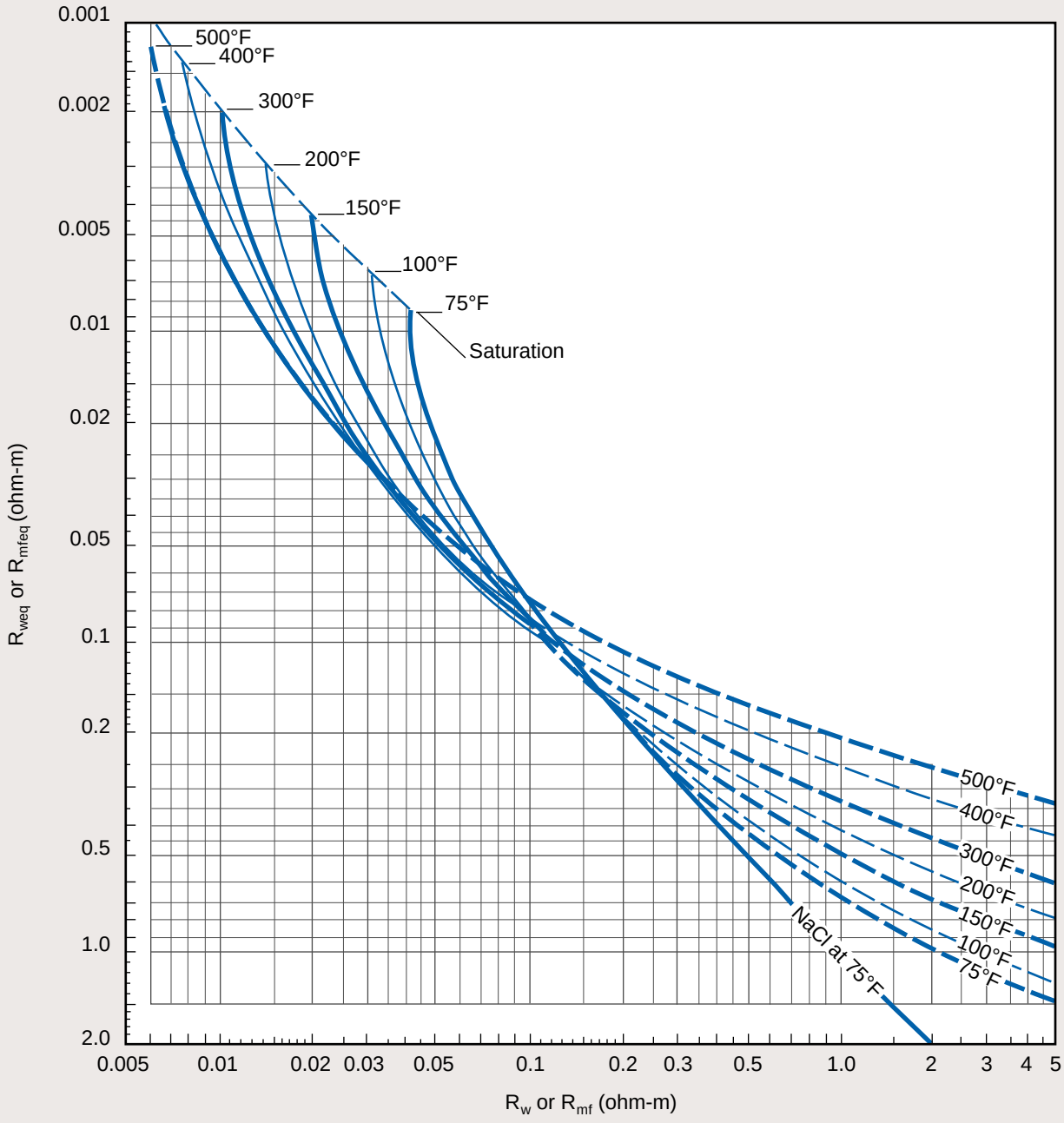
Schlumberger

R_w versus R_{weq} and Formation Temperature

SP-2
(English)

SP



These charts convert equivalent water resistivity, R_{weq}, from Chart SP-1 to actual water resistivity, R_w. They may also be used to convert R_{mf} to R_{mfeq} in saline muds.

Use the solid lines for predominantly NaCl waters. The dashed lines are approximate for "average" fresh formation waters (where effects of salts other than NaCl become significant). The dashed portions may also be used for gyp-base mud filtrates.

Example: R_{weq} = 0.025 ohm-m at 120°C

From chart, R_w = 0.031 ohm-m at 120°C

Special procedures for muds containing Ca or Mg in solution are discussed in Reference 3. Lime-base muds usually have a negligible amount of Ca in solution; they may be treated as regular mud types.