



**TYPICAL ELECTRIC LOG WITH INTERPRETATION**

SELF-POTENTIAL	RESISTIVITY	REMARKS
[Wavy line]	[High resistivity]	Interbedded sand, silt, and clay indicated by moderate deflection of the self-potential and resistivity curves.
[Low resistivity]	[Low resistivity]	Clay or shale beds indicated by small self-potential and resistivity deflections.
[High resistivity]	[High resistivity]	Fresh-water sand beds separated by silt and clay shales. Fresh-water sand typically has moderate self-potential and high resistivity values.
[Low resistivity]	[Low resistivity]	Sand beds containing brackish or saline water interbedded with silt and clay shales, indicated by large self-potential and moderate resistivity deflections.
[High resistivity]	[High resistivity]	Thin-bedded sand, silt, and clay, containing brackish or salt water, indicated by high self-potential and low resistivity values.

**EXPLANATION**

**UNCONSOLIDATED DEPOSITS**

- QUATERNARY**
  - Qb: Flood-basin deposits
  - Qya: Younger alluvium
  - Qsd: Sand dunes
  - Ql: Lacustrine and marsh deposits
  - Qoar: Older alluvium
  - Qoaa: oxidized deposits
  - Qoar: reduced deposits
  - Qtc: Continental deposits of Quaternary and Tertiary
- UNCONFORMITY**
- CONSOLIDATED ROCKS**
  - pTu: Basement complex

**SYMBOLS USED ON DRILLERS' LOGS**

- Sand
- Clay
- Clayey sand
- Sandy clay
- Sandstone
- Clayey sand and gravel
- Sand and gravel
- Sand and cobbles
- Decomposed basement complex

**Other symbols:**

- Stratigraphic unit contact (Queried where evidence is inconclusive)
- Water quality boundary (Queried where data are inconclusive)
- Inferred fault (Arrows indicate direction of movement)
- Contact between oxidized (O) and reduced (R) deposits
- Change in resistivity scale
- Well symbol (Bracket indicates a perforated interval)

0 5 10 15 MILE

Vertical exaggeration is 26.4 times horizontal scale  
Datum is mean sea level

FIGURE 8.—GEOLOGIC CROSS SECTIONS C-C', D-D', AND E-E', FRESNO AREA, SAN JOAQUIN VALLEY, CALIFORNIA