

DEPTH (X 1000) FEET

VELOCITY, FT/SEC.

SANDSTONE

SHALE

MUD WT.  
lb/gal

15.3

TOP FRIED

T5  
MARKER

TRANSIT TIME (AT) USEC/FT

170

120

80

Figure 13. Shale and sandstone velocity, shale resistivity, and log-interpreted salinity from the Department of Energy and General Crude Oil No. 1 Pleasant Bayou geothermal test well, Austin Bayou Prospect, Brazoria County.

SHALE RESISTIVITY  
OHM-METERS

SALINITY  
PPM, NaCl

200° F

250° F

300° F

10<sup>4</sup>

10<sup>5</sup>