



Geophysics
International

PETRO-SONDE RESPONSE TO CAPAY SHALE AND KIONE SAND

Petro-Sonde Survey - Oil and Gas Division

LOCATION. Colusa County, California.

OBJECTIVE OF THE PETRO-SONDE SURVEY. To determine the presence, depth and thickness of a Kione Sand.

GEOLOGY. The Cretaceous Kione Sand is overlain unconformably by Capay Gorge Shales. The presence of the Kione Sand is dependant on the variable depth of the unconformity at different locations.

INFORMATION AVAILABLE. Electric log of calibration well.

CONCLUSIONS AND COMMENTS. Uncalibrated Petro-Sonde reading was taken at a producing well and was then compared with electric log (See Figure 1). The depth and thickness of the Kione Sand were accurately detected. The Kione Sand exhibited a characteristic low signal response in contrast with the overlying gorge shale. Methane in the sand was not detectable. but the gas - water contact was identified at the top of the water content zone.

