

PETRO-SONDE RESPONSE TO BROMIDE SAND Petro-Sonde Survey - Oil and Gas Division

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LOCATION. McClain County, South-Central Oklahoma.

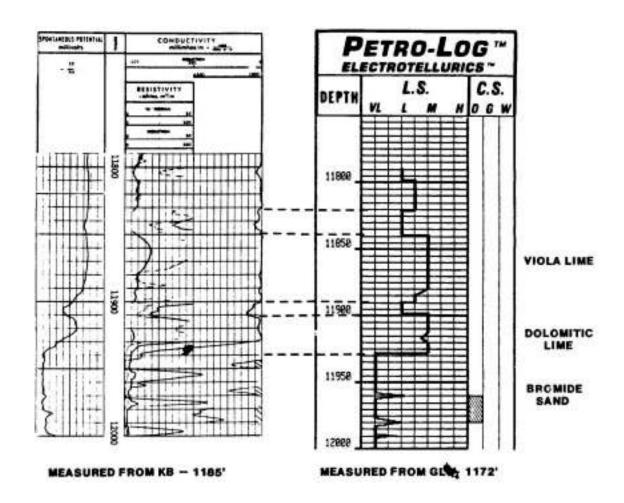
OBJECTIVE OF THE PETRO-SONDE SURVEY. To delineate the upper contact of the Bromide (2nd Wilcox) Sand and associated pay interval.

GEOLOGY. The Ordovician Bromide Sand is overlain by a 25' dolomitic lime and the Viola Limestone. The area is highly faulted with hydrocarbons trapped in individual Fault blocks.

INFORMATION AVAILABLE. General knowledge of stratigraphic column.

CONCLUSIONS AND COMMENTS. An uncalibrated Petro-Sonde reading was taken For the interval 11,185'-12,000'. The top of the Bromide Sand was successfully detected on the Petro-Log to within Five Feet of the actual contact as indicated by the induction-electric log. The top of the pay zone, within the Bromide Sand interval, was determined within one Foot in depth. Figure 1 is a comparison of the induction-electric log and the Petro-Log showing an accurate correlation between the two.

COMPARISON OF INDUCTION - ELECTRIC LOG AND SURFACE GENERATED PETRO-LOG.



- $L.S.\mbox{-Lithologic Signal determines the depth. thickness.}$ and electrotelluric responses of formations. which allows for their Identification and lateral correlation.
- C.S.-Content Signal Indicates the potential presence, and the depth and thickness of 0i1, gas, and water resources.