

CASE HISTORY - LIGNITE SEAMS

Petro-Sonde Survey - Coal Division

LOCATION. Henderson County, Malakoff; Texas.

TOPOGRAPHIC CONTROL. U.S.G.S. Topographic map.

OBJECTIVE OF THE PETRO-SONDE SURVEY. To determine the depth and thickness of the lignite seams within the Wilcox formation.

GEOLOGY. Eccene lignite seams, interbedded with sand and clays or the Wilcox formation. The seams are thought to have originated from non marine crevasse splays.

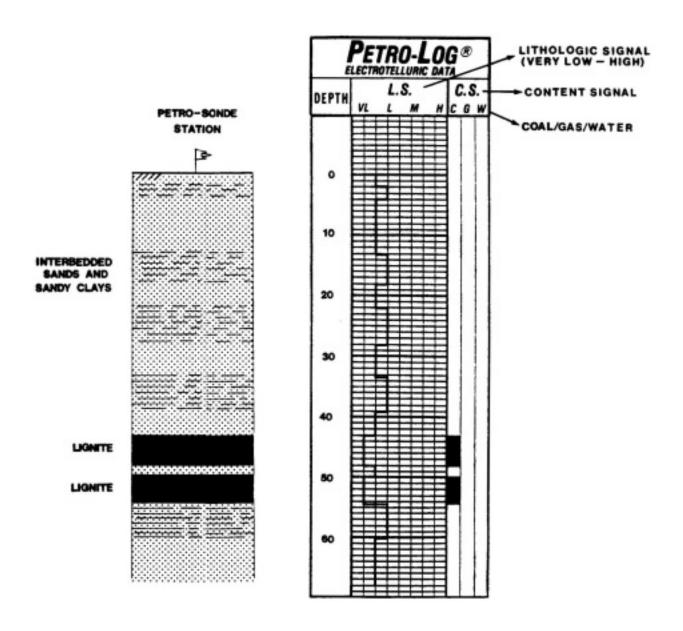
INFORMATION AVAILABLE. Driller's log for calibration.

PETRO-SONDE SURVEY STRATEGY. To record Petro-Log Graph patterns associated with the depth and thickness or the lignite seams.

Only twenty-rive minutes were required to record this data.

CONCLUSIONS AND COMMENTS. The Petro-Log Graph accurately delineated the depths and thicknesses or the lignite seams to within 1 foot (See figure).

COMPARISON OF GEOLOGIC SECTION AND PETRO-LOG OBTAINED FROM THE SURFACE.



LITHOLOGIC SIGNAL DETERMINES THE DEPTH AND THICKNESS OF FORMATIONS.

CONTENT SIGNAL INDICATES THE PRESENCE, DEPTH, AND THICKNESS OF COAL DEPOSITS AND OTHER RESOURCES.