

Figure 1

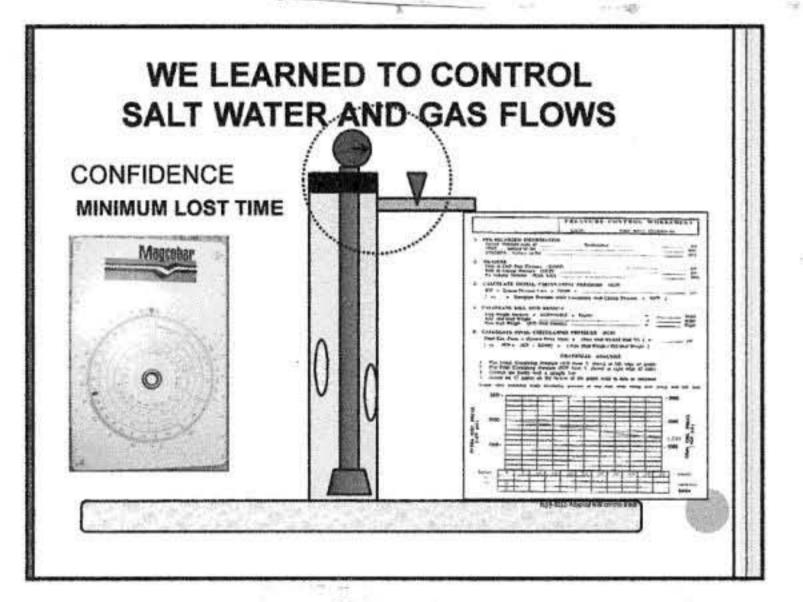


Figure 3

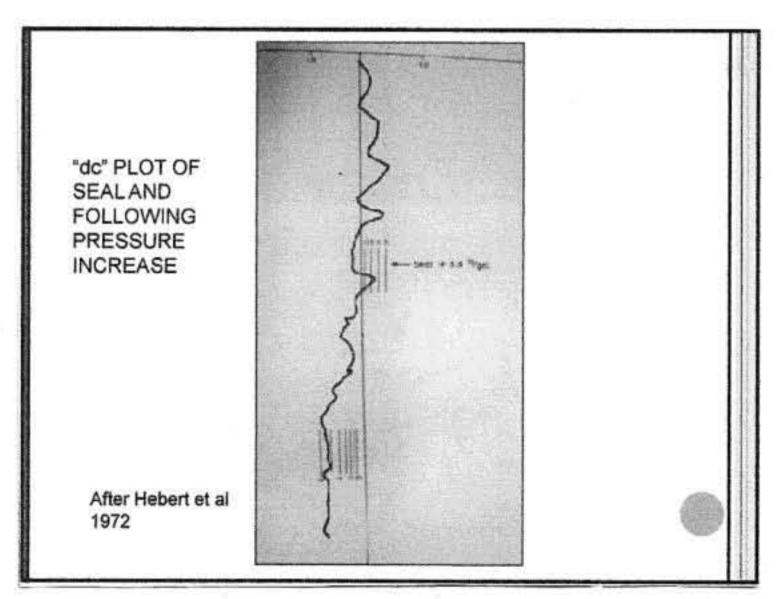


Figure 5
"d" Solution Plot

GULF OF MEXICO DRILLING MUD PROGRAM 1950-1970

- o 0-12,000' 10-12ppg (1.20-1.45 SpG) Drilling Fluid Density
- o 12,000' Set Casing
- o Change mud system to lime mud
- o 12,000' to TD (12-16,000')
 - increase density 1ppg (0.12 SpG) every 1,000'
- o At a TD of 16,000', the fluid density would be: 12ppg +4pg=16ppg (1.9SpG)
- o Set casing at TD and cement with 16ppg cement
- o This worked out pretty well, some of the time

Figure 2

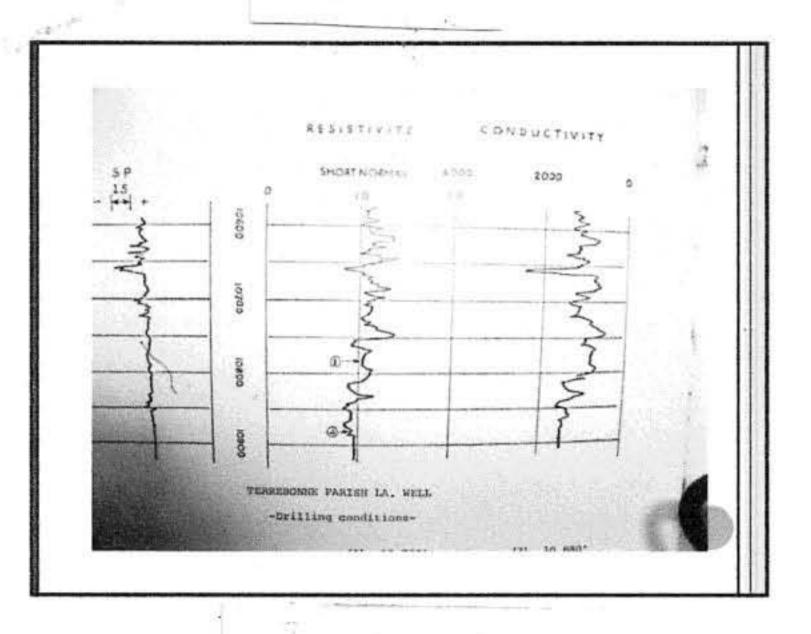


Figure 4
Typical 1960 IES Log

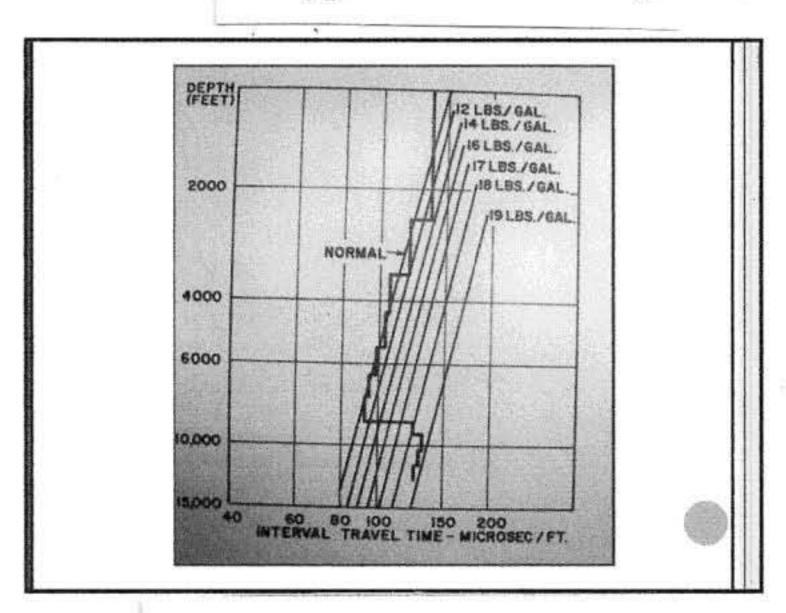


Figure 6
'Sonic' Log Pressure Plot