A B S T R A C T

The invention relates to a string of drilling rods (20_i, 20_s) fitted with means for transmitting information, each rod comprising a conductive outer wall (34), and a coaxial inner pipe (36) that is likewise conductive for conveying a liquid under pressure, the annular space (38) between the outer wall and the inner pipe being filled with an insulating fluid. The information transmission means comprise: a first inductive coupling coil (40) disposed close to the bottom end of said string of rods in said annular space (38); means (44, 56) for applying an electrical signal representative of information to be transmitted to said coil; a second inductive coupling coil (46) disposed close to the top end of said string of rods in the annular space (38); and means (48) picking up the electrical signal created in said second coil.