

ISO/TR 14685:2001-12 (E)

Hydrometric determinations - Geophysical logging of boreholes for hydrogeological purposes - Considerations and guidelines for making measurements

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Terms and definitions	1
3	Units of measurement	6
4	Purpose of geophysical logging	6
4.1	General	6
4.2	Formation logging	7
4.3	Fluid logging	9
4.4	Construction logging	12
4.5	Selection of logs	12
5	Planning	13
5.1	General considerations	13
5.2	Safety around wells, boreholes and shafts	15
5.3	Site access	15
5.4	Access within a borehole	16
5.5	Equipment	16
5.6	Borehole details	16
5.7	Logging sequence	17
5.8	Quality assurance	18
6	Formation logging	18
6.1	General	18
6.2	Electric logs	18
6.3	Natural gamma-ray logs	21
6.4	Neutron-neutron (porosity) logs	22
6.5	Gamma-gamma (density) logs	23
6.6	Sonic logs	24
6.7	Other logs	25
7	Fluid logging	26
7.1	General	26
7.2	Temperature	26
7.3	Fluid conductivity	26
7.4	Flow	28
8	Construction logging	29
8.1	General	29
8.2	Calliper	29
8.3	Casing collar locator	30
8.4	Cement bond	31
8.5	Closed circuit television log	32
9	Log presentation	32
9.1	General	32

9.2	Track layout	35
9.3	Log parameter scales	35
9.4	Depth scales	35
9.5	Composite logs	36
9.6	Differential logs	36
	Bibliography	37