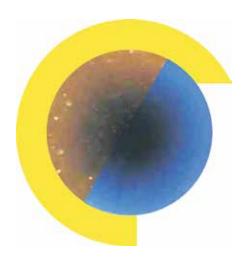


MANUAL Water well rehabilitation







Well ageing	1.1 Causes of well ageing1.2 Types of incrustations1.3 Iron oxides1.4 Quantification of well ageing1.5 Cost of well ageing	1
Prevention of well ageing	2.1 Planning and construction2.2 Operation2.3 Monitoring2.4 Maintenance	2
Hydraulic-chemical well rehabilitation	 3.1 Planning 3.2 Execution 3.3 Success control 3.4 Sustainability of rehabilitation 3.5 Economic efficiency of rehabilitation 3.6 Advantages of rehabilitation 	3
Removal of well incrustrations	AIXTRACTOR® 1.0 AIXTRACTOR® 6.0 AIXTRACTOR® 2.0 AIXTRACTOR® 7.0 AIXTRACTOR® 3.0 AIXTRACTOR® 8.0 AIXTRACTOR® 4.0 AIXTRACTOR® 9.0 AIXTRACTOR® 5.0 AIXTRACTOR® 10.0	4
cleanwells® protocols	5.1 Step-discharge test5.2 Process control5.3 Execution5.4 Clear pumping5.5 Intensive desanding	5

5.6 Result 5.7 Acceptance

WWW.CLEANWELLS.DE



1. Well ageing

- 1.1 Causes of well ageing
- 1.2 Types of incrustations
- 1.3 Iron oxides
 - 1.3.1 Iron oxides in microscope
 - 1.3.2 Ageing of iron oxides
 - 1.3.3 Temporal development of incrustations
 - 1.3.4 Spatial distribution of incrustations
 - 1.3.5 Dissolution of iron oxides
- 1.4 Quantification of well ageing
 - 1.4.1 Step-discharge test
 - 1.4.2 Camera inspection
 - 1.4.3 Geophysical investigation
- 1.5 Cost of well ageing
 - 1.5.1 Effects on pumping capacity
 - 1.5.2 Calculation of additional cost

2

3

4

5