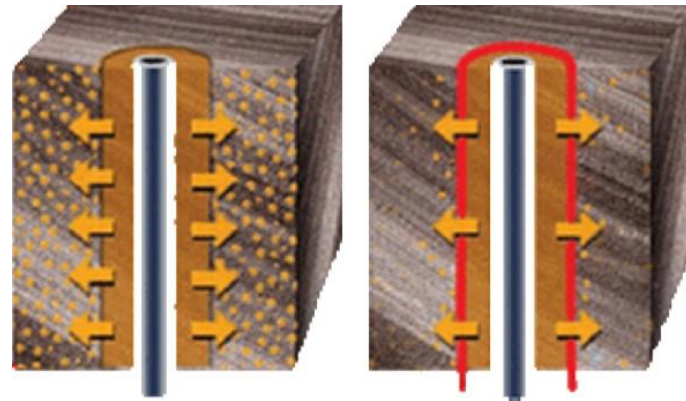


COMMON TERMINOLOGY



- **R_m** : Borehole mud resistivity
- **R_{mc}** : Mudcake resistivity

Invaded zone

- **R_{mf}** : Mud filtrate resistivity
- **R_{xo}** : Invaded zone resistivity **R_t** : Uninvaded zone resistivity
- **S_w** : Uninvaded zone water saturation **R_w** : Interstitial water resistivity
- **S_{xo}** : Invaded zone water saturation

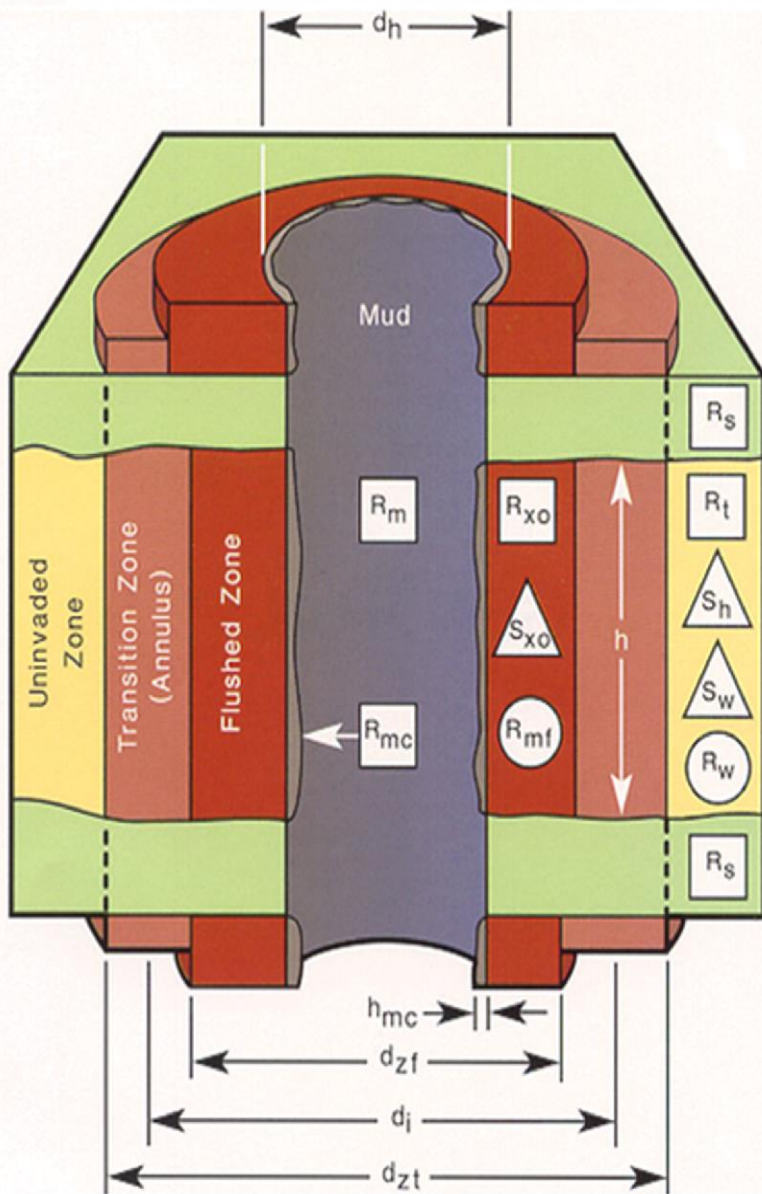
Uninvaded zone

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LOG PRESENTATION - THE HEADING

- Well location
- Depth references
- Date of log
- Well depth
- Casing shoe depth
- Bit size
- Mud data
 - Type
 - Properties
 - Resistivities
- Max. Temperature

Schlumberger		SIMULTANEOUS COMPENSATED NEUTRON- LITHO-DENSITY			
COMPANY		YOUR OIL AND GAS COMPANY			
WELL		YOUR ET AL FERRIER 1-2			
FIELD		FERRIER			
COUNTY		ROCKY MTN.		PROVINCE ALBERTA	
LOCATION		1-2-3-4W5		Other Services: PHASOR-SFL BHC SONIC LOGNET	
API SERIAL NO.		SECT.	TWP.	RANGE	
		1-2	3	4W5	
Permanent Datum		GROUND LEVEL	Elev.	800.0 M	
Log Measured From		KELLY BUSHING	4.3 M	above Perm. Datum	
Drilling Measured From		KELLY BUSHING		Elev.: K.B.804.3 M D.F.804.0 M G.L.800.0 M	
Date		14-APR-1992			
Run No.		ONE			
Depth Driller		2000.0 M			
Depth Logger (Schl.)		2000.0 M			
Btm. Log Interval		1997.0 M			
Top Log Interval		400.0 M			
Casing Driller		214 MM @ 400.0 M		@ @	
Casing-Logger		400.0 M			
Bit Size		222 MM @ 2000.0 M		@ @	
Type Fluid in Hole		GEL CHEMICAL			
Dens.	Visc.	1100. K/M3		65.0 S	
pH	Fid. Loss	5.0		8.5 C3	
Source of Sample		FLOWLINE			
Rm @ Meas. Temp.	3.070 OHMM @ 26.0 DEGC		@ @		
Rmf @ Meas. Temp.	3.270 OHMM @ 25.0 DEGC		@ @		
Rmo @ Meas. Temp.	1.910 OHMM @ 25.0 DEGC		@ @		
Source: Rmf	Rmo	MEASURED		CALCULATED	
Rm @ BHT	1.514 OHMM @ 75.0 DEGC		@ @		
Circulation Ended		1200 / 92-04-14			
Logger on Bottom		1600 / 92-04-14			
Max. Rec. Temp.		75.0 DEGC			
Equip.	Location		8377 EDMONTON		
Recorded By		J. JACKETT			
Witnessed By		CLIENT			



h : Bed Thickness
 h_{mc} : Mudcake Thickness
 d_i : Diameter of Invasion (step profile)
 d_h : Borehole Diameter
 d_{zf} : Diameter of Flushed Zone
 d_{zt} : Diameter of Transition Zone

S_h : Hydrocarbon Saturation
 S_w : Water Saturation
 S_{xo} : Flushed Zone Water Saturation
 S_{hr} : Residual Hydrocarbon Saturation

R_m : Mud Resistivity
 R_{mc} : Mudcake Resistivity
 R_{mf} : Mud Filtrate Resistivity
 R_s : Adjacent Bed Resistivity
 R_t : True Resistivity
 R_{xo} : Flushed Zone Resistivity
 R_w : Formation Water Resistivity

Sources of information

