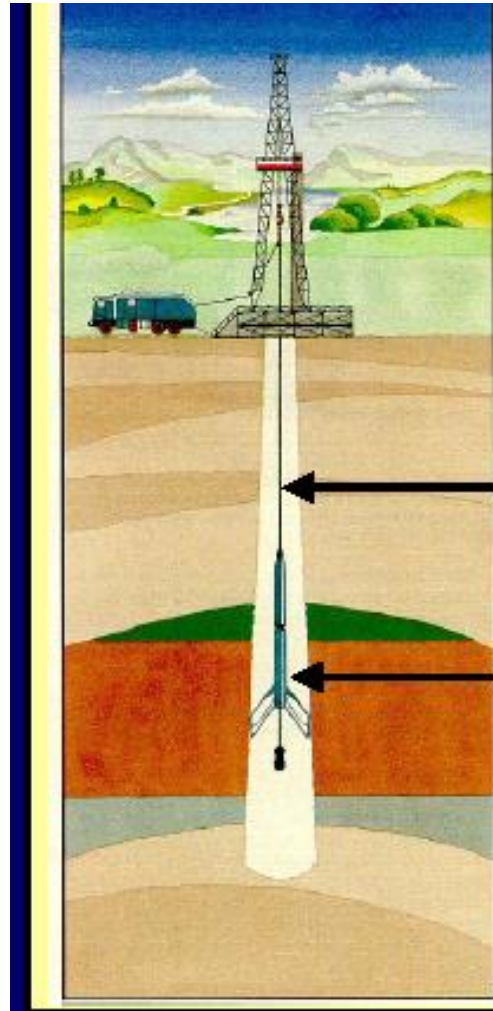


Perfis de calibre e gama natural

GSA0463-Geologia do Petróleo

André Oliveira Sawakuchi

Perfilagem geofísica de poços



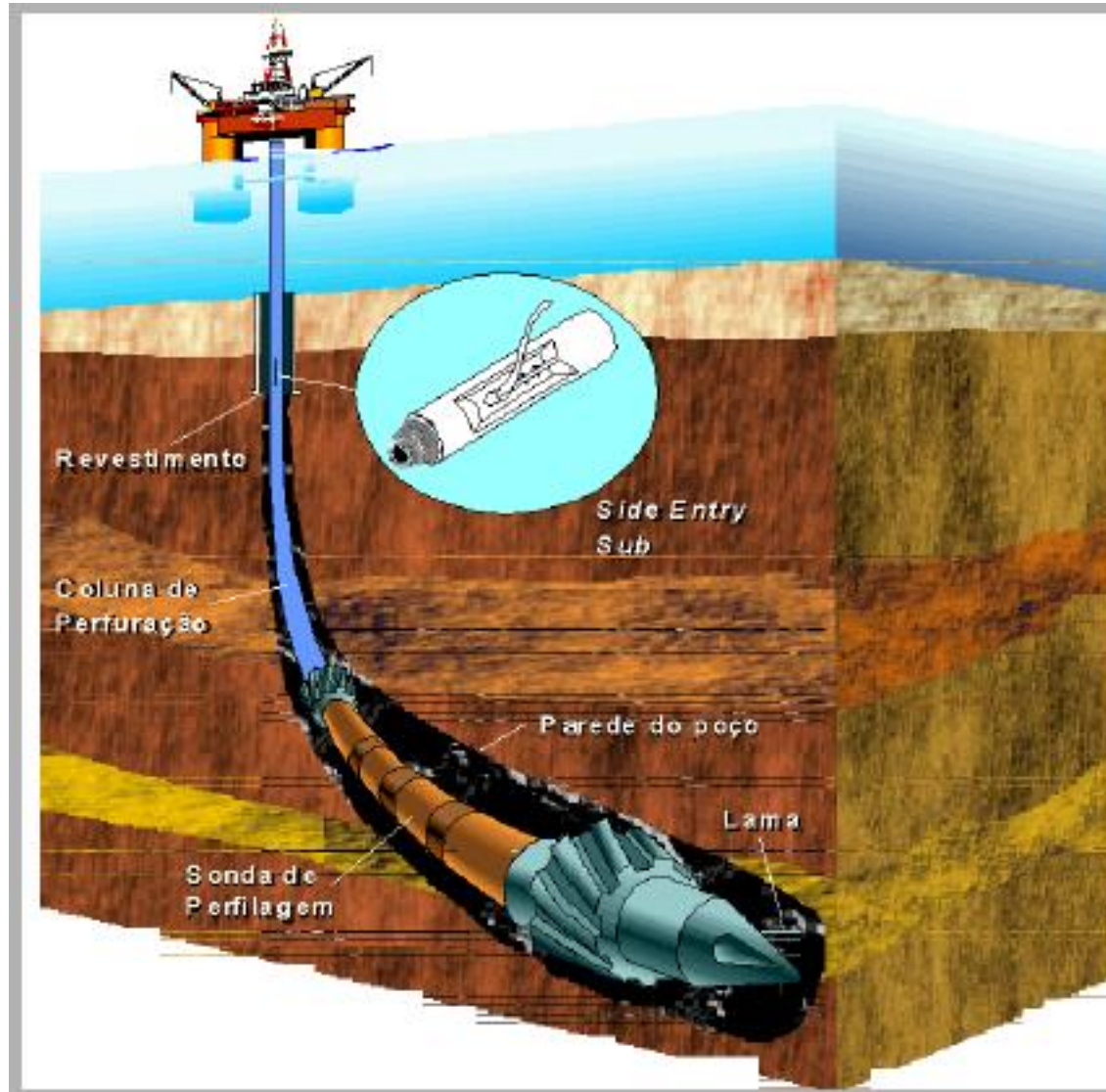
**Cabo de
Perfilagem**

**Sonda de
Perfilagem**



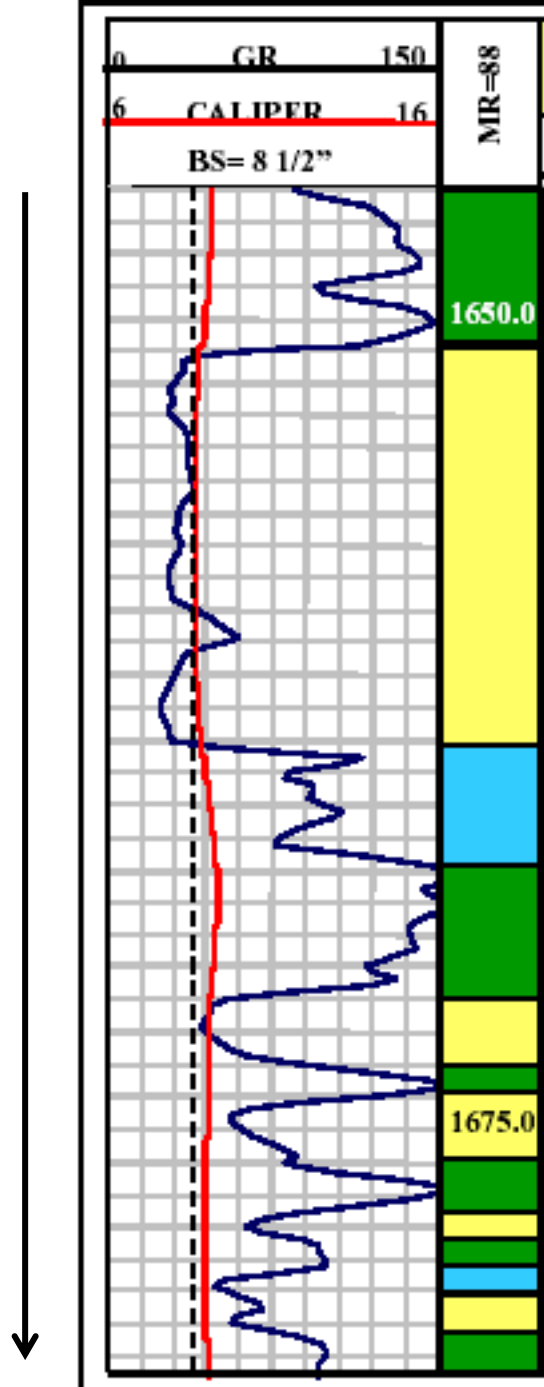
**Unidade de
Perfilagem**

LWD



Exemplo: Perfil de raios gama

Profundidade

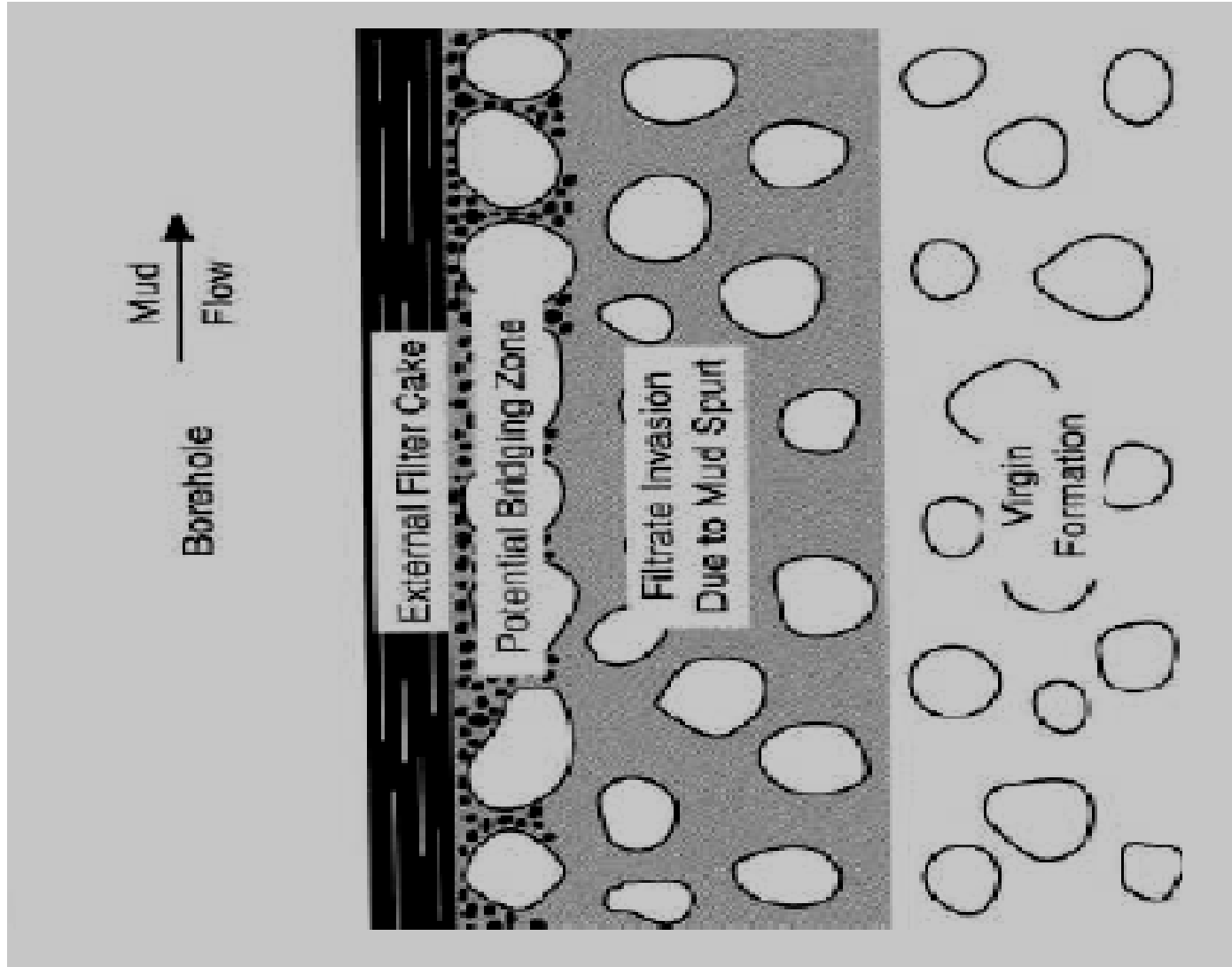


Folhelho

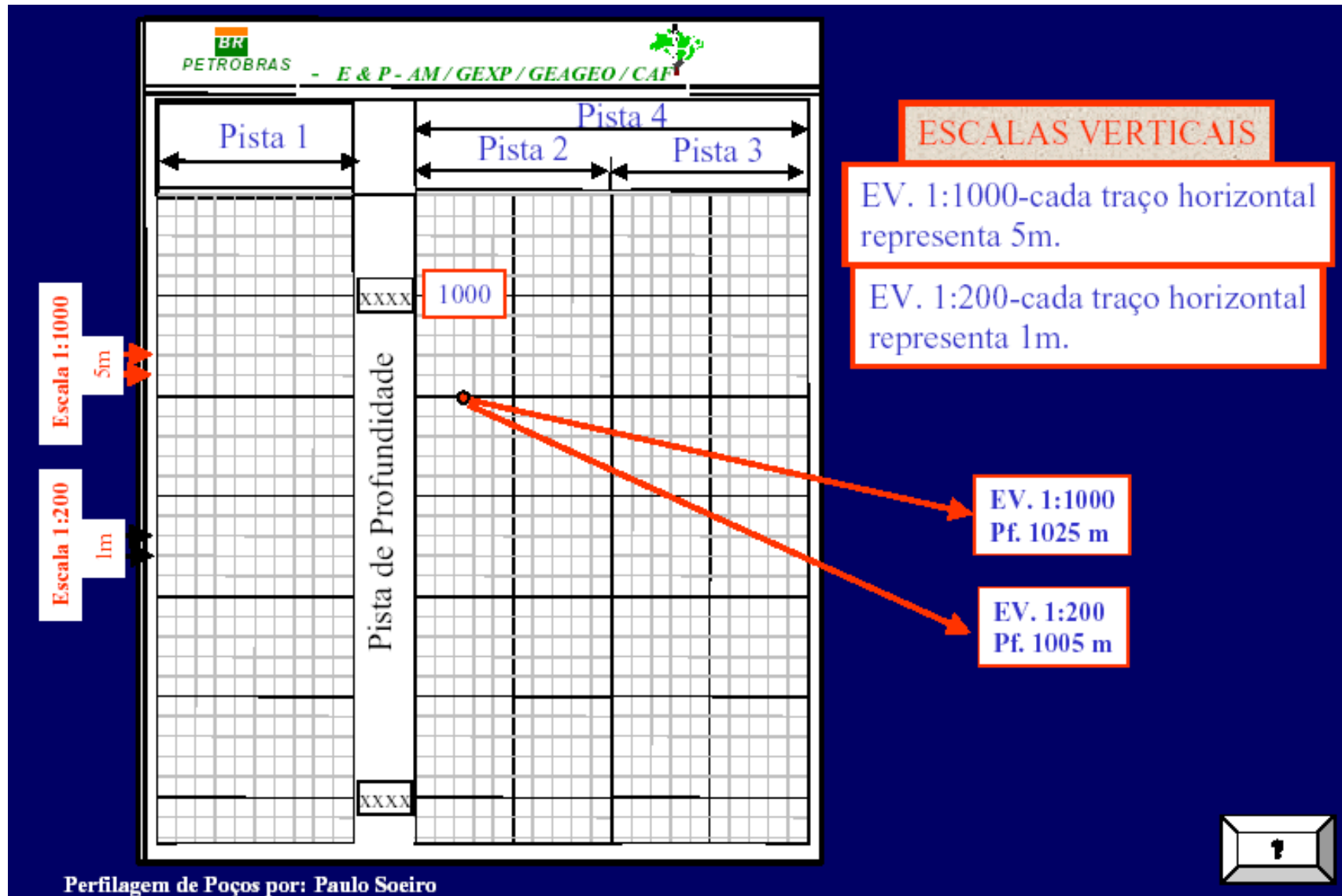
Arenito

Arenito siltoso

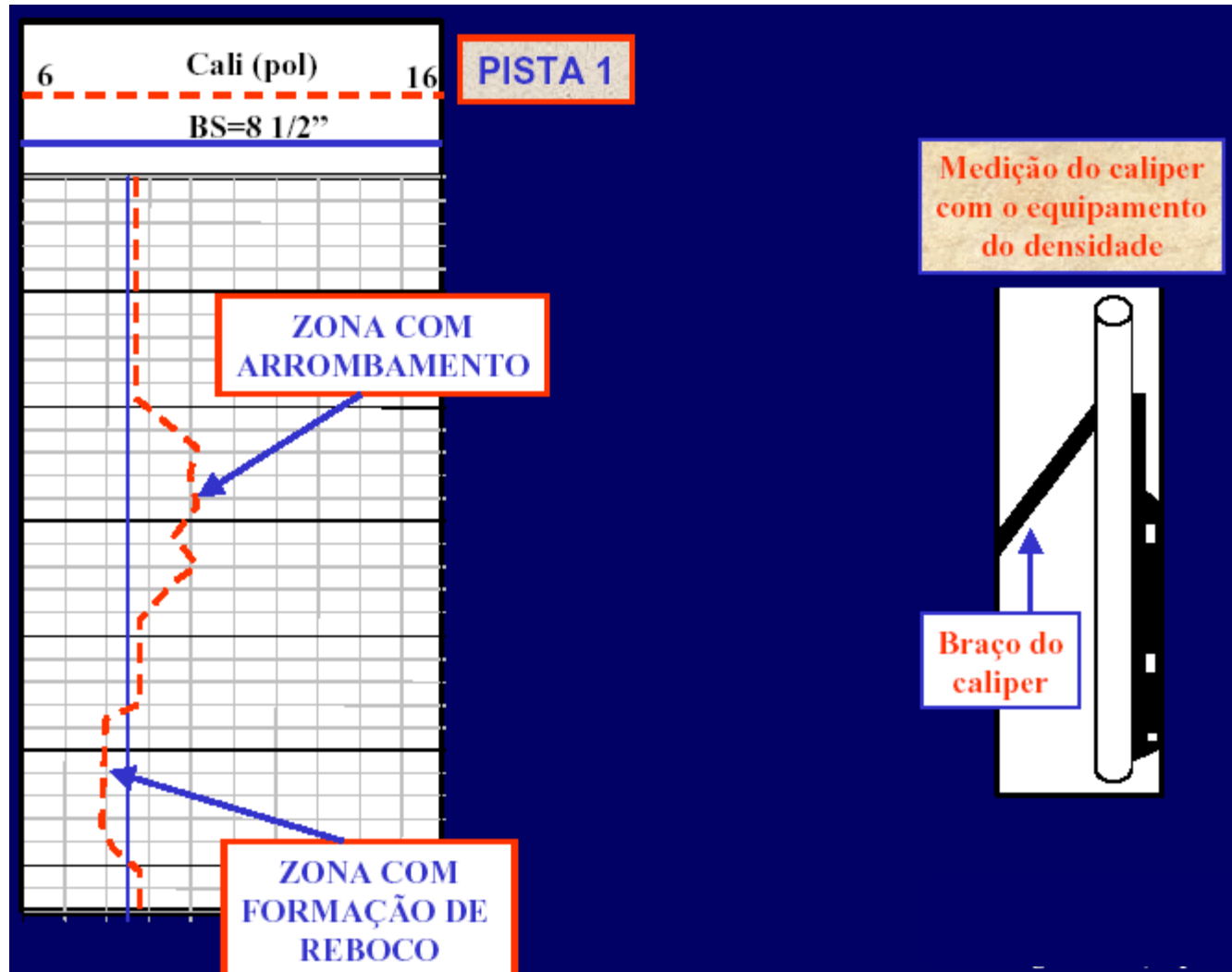
O ambiente de perfilagem



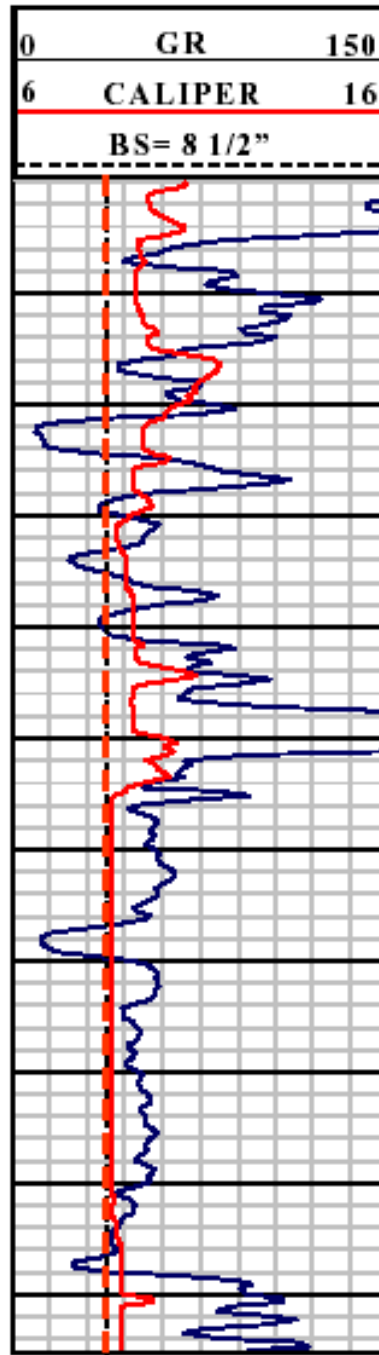
Base de registro dos perfis



Perfil de calibre (“caliper”)



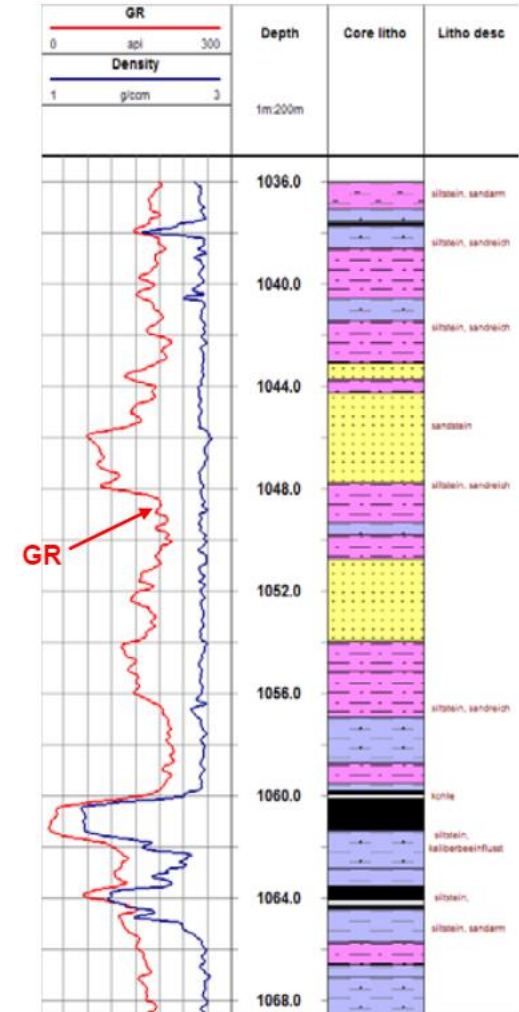
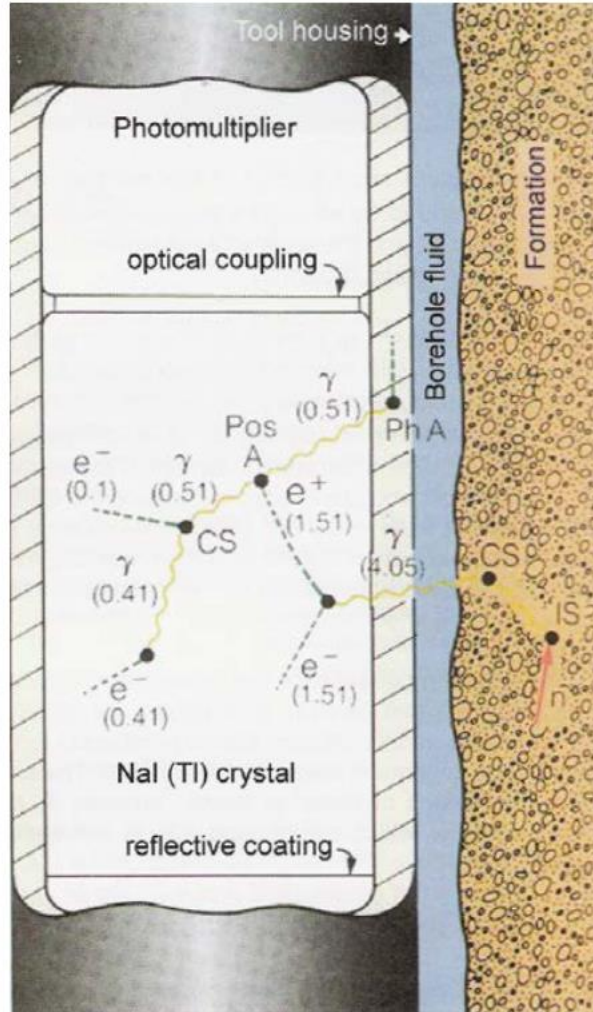
Vamos
analisar a
curva de
calibre



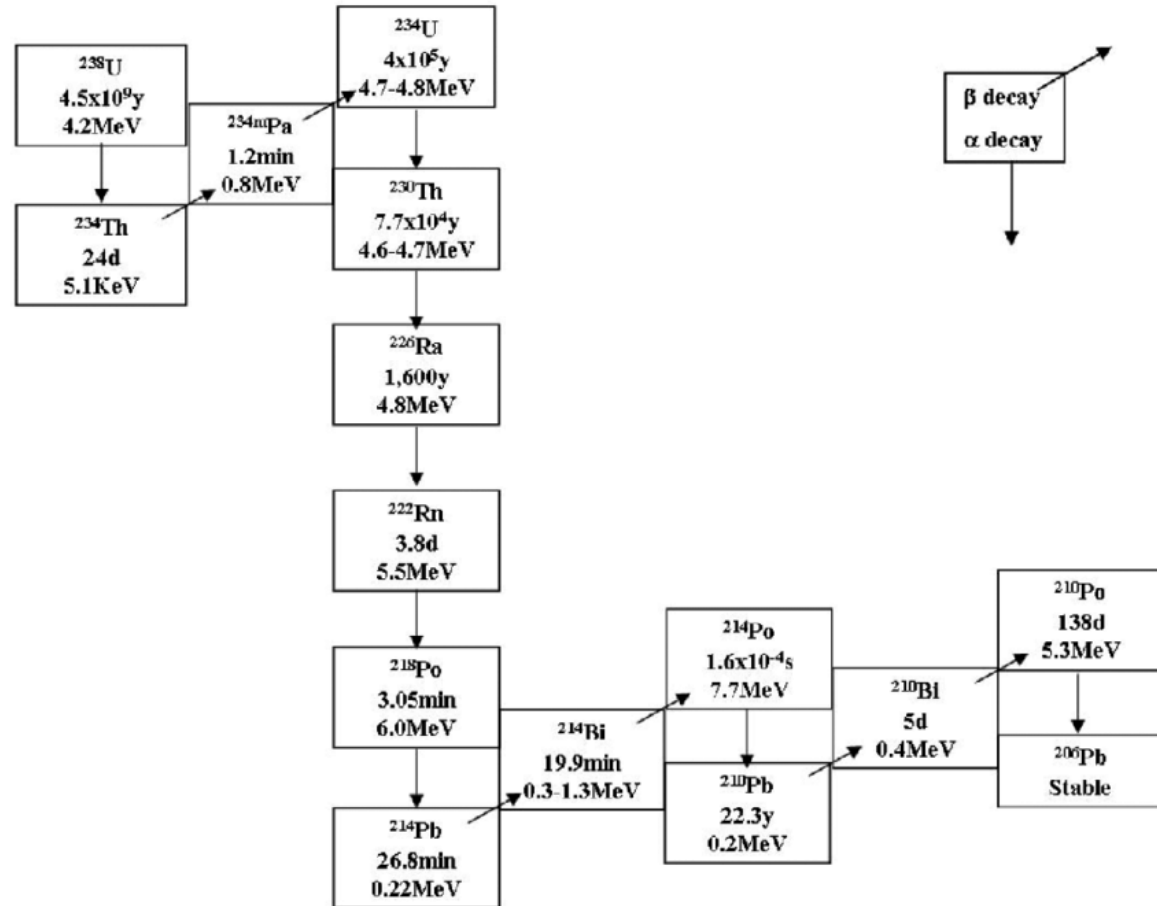
Principais usos

- Avaliar qualidade dos dados dos demais perfis (acoplamento da ferramenta de perfilagem).
- Determinar zonas com invasão.

Perfil de raios gama naturais ("gama natural")

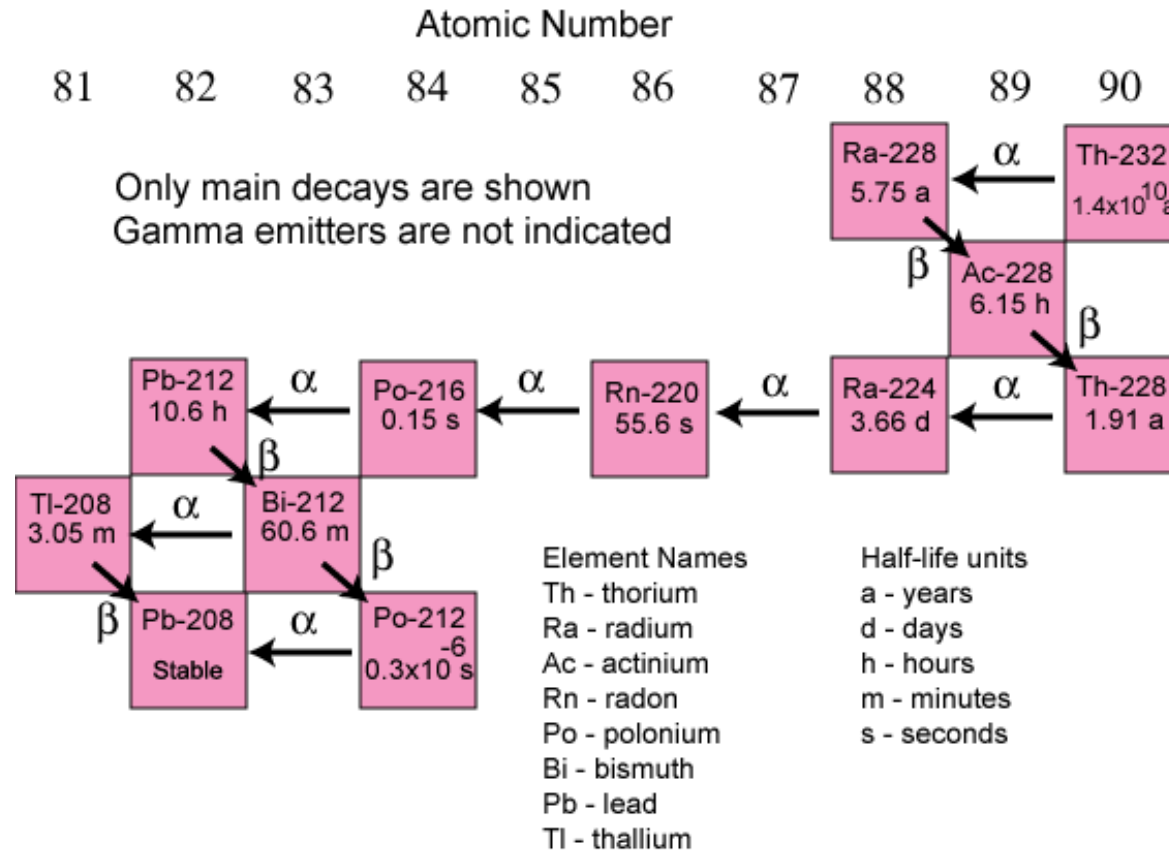


^{238}U

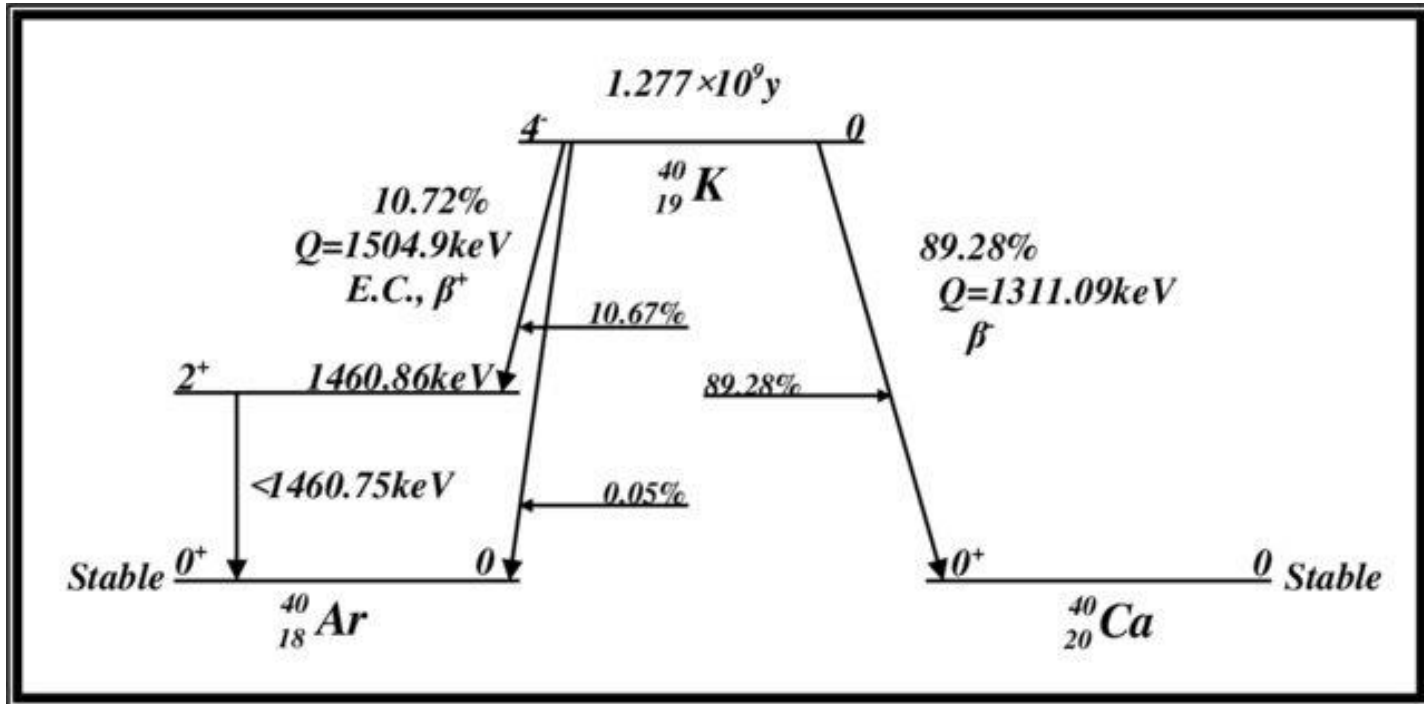


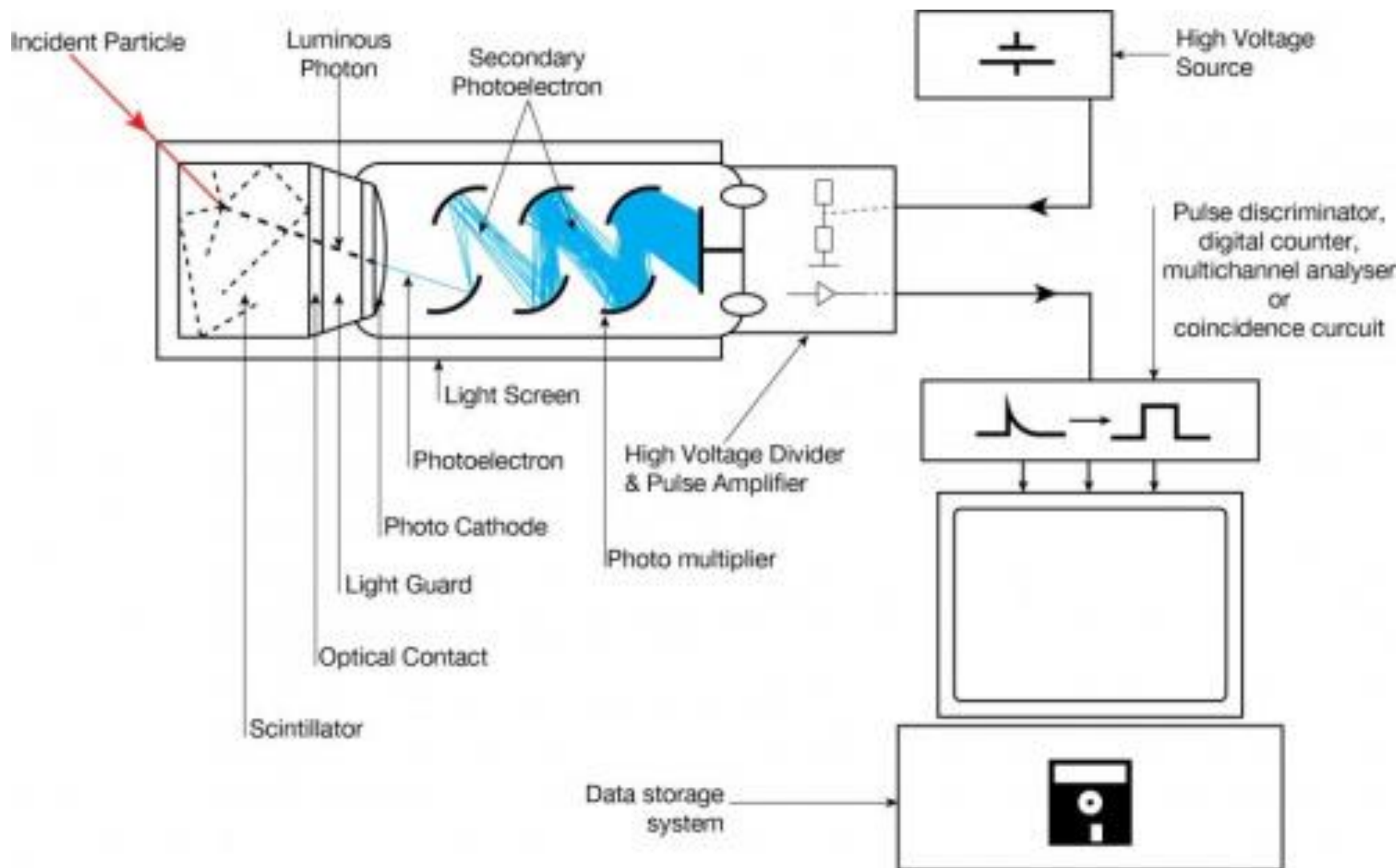
232Th

The Thorium-232 Decay Chain



^{40}K





Utilização

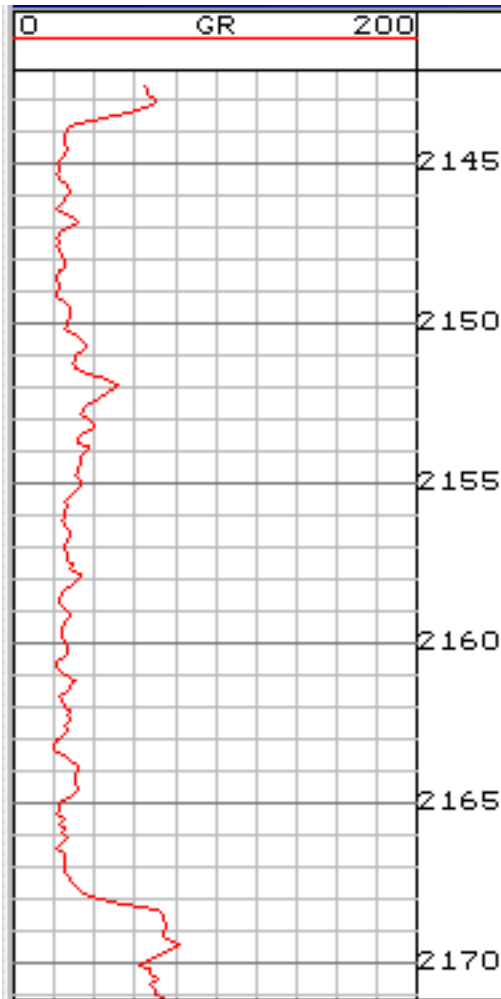
- Identificação de litologias
- Correlação estratigráfica
- Determinação de argilosidade de reservatórios

Características

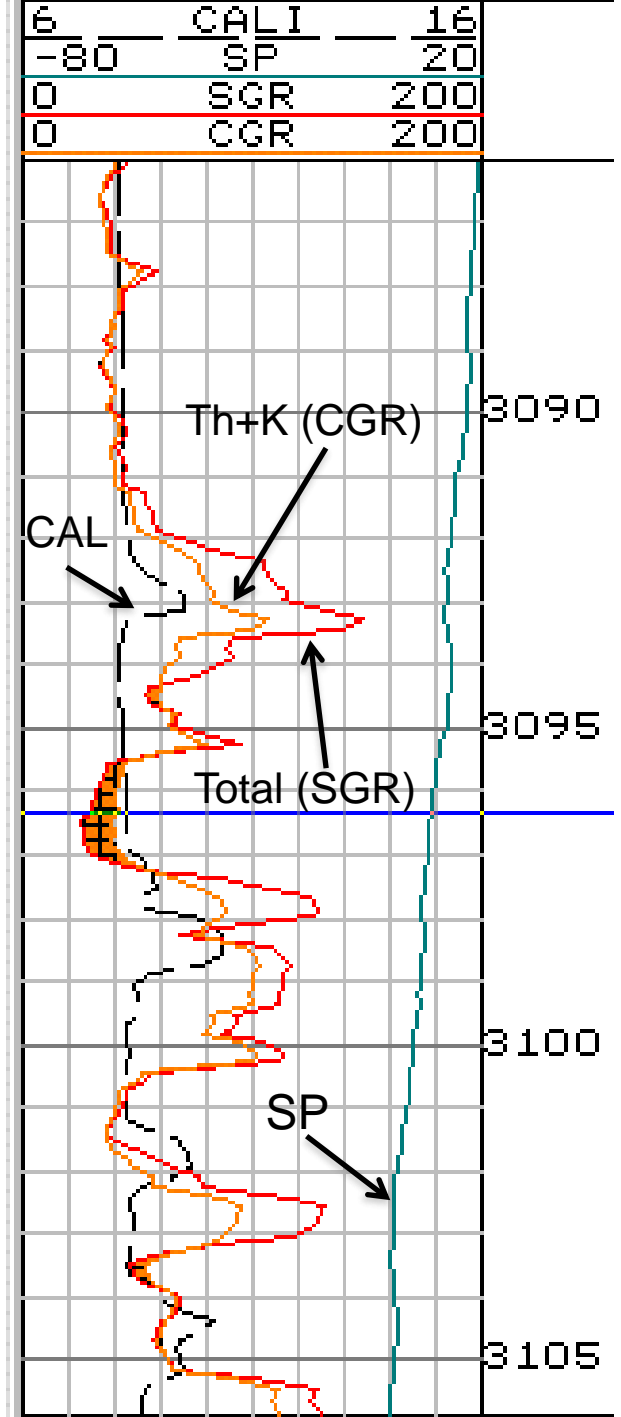
GR espectral

- Registro: pista 1 , escala linear.
- Resolução vertical: ~30 cm.
- Profundidade de investigação: 30-60 cm.
- Pode-se usado em poço com ou sem revestimento.

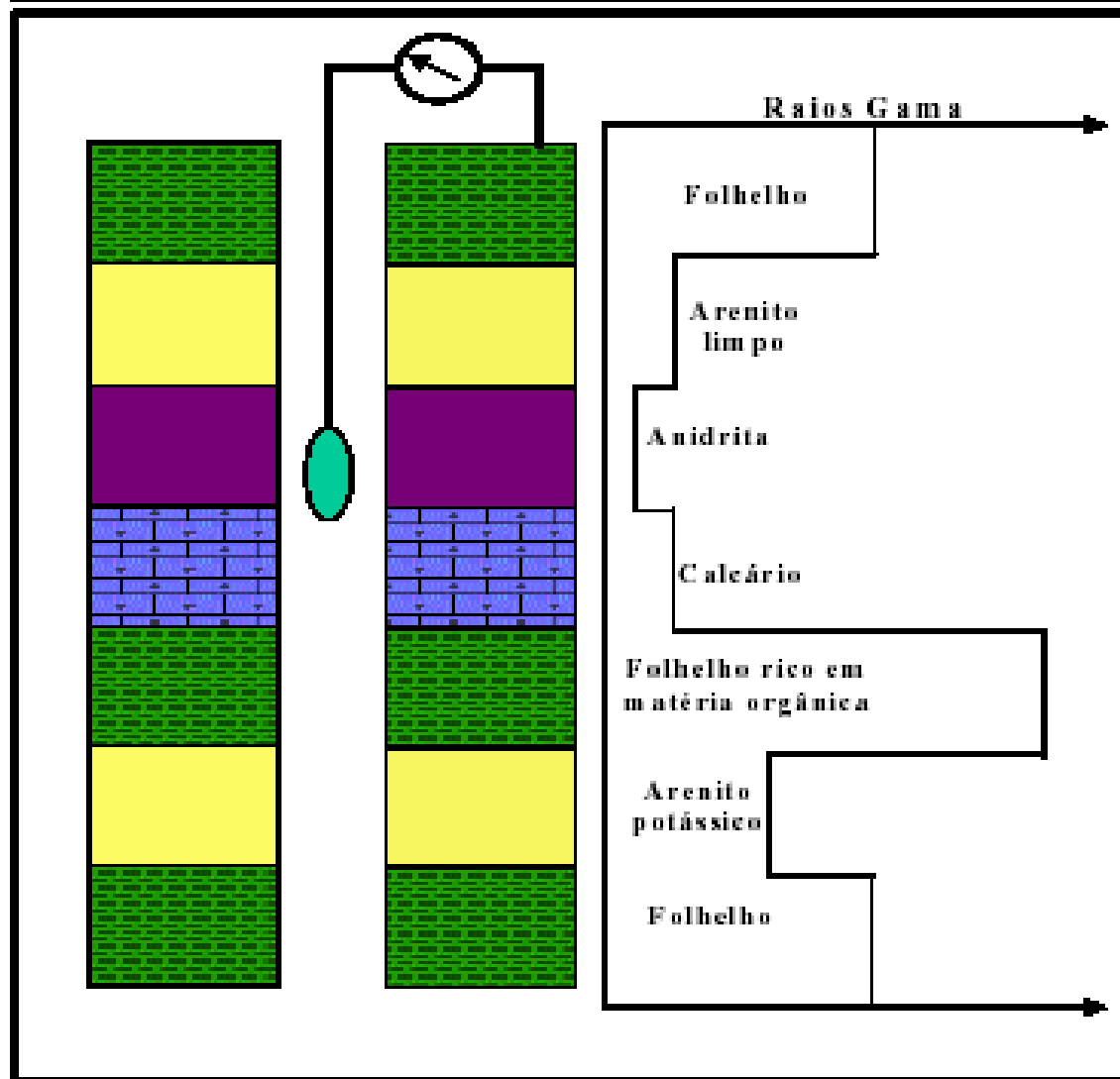
GR total



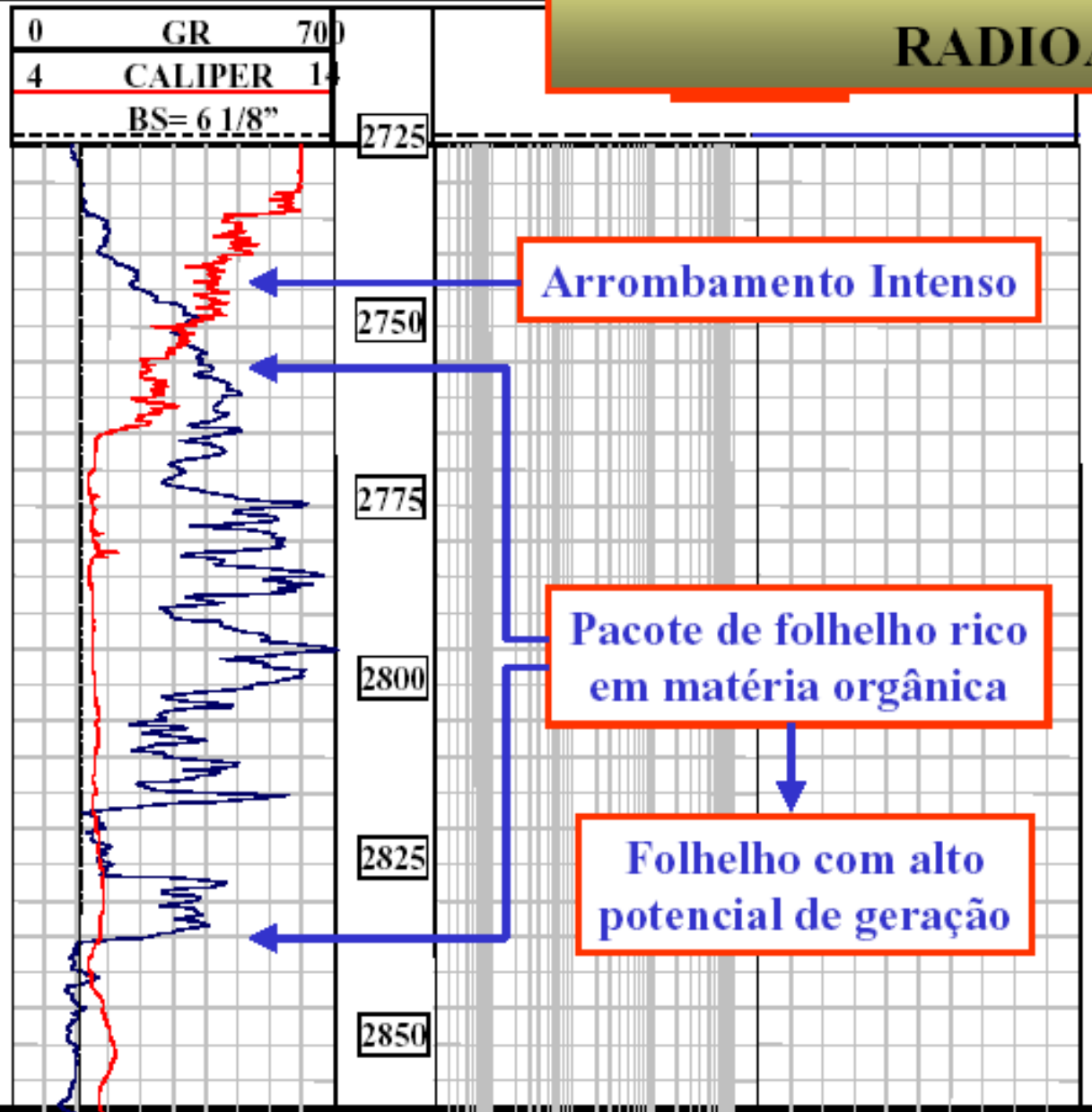
www.Petrolog.net



Medida do Raios Gama em Tipos Litológicos



EXEMPLO DE FOLHELHOS RADIOATIVOS



Arrombamento Intenso

Pacote de folhelho rico em matéria orgânica

Folhelho com alto potencial de geração

