

Fast, Interactive, User-Friendly Facies Classification

Determining the relative water saturations and height above free water are critical steps in understanding the reservoir and defining an efficient drilling program. With this understanding, engineers can avoid drilling into free water, determine compartmentalization and identify zones that are in communication.

The PowerLog Advantage

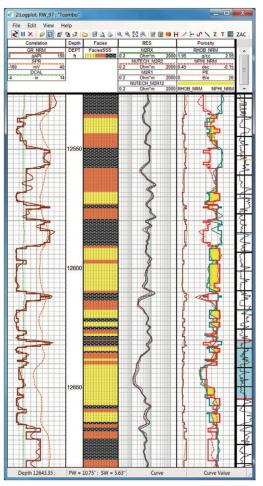
PowerLog FaciesID is the most user-friendly electrofacies classification tool on the market. The reconstruction of input curves as block curves allows you to quality check results during the process.

- Fast and interactive
- · Generates block curves of input data
- Creates dispersion statistics and confusion matrices to evaluate quality

• Easily editable and selectable category tables for display purposes

	Table: S	and_Silt_Sh: 💌				Ed	lit Table	
0	1	2	3	4	5	6		
		Scale Factor	10	.1	.1	.5		
		Logarithmic						
Well	Depth	Lith ▼ Curve ►	&GR	&RH	&NP_	&PE		
RW	12223	Sand	25.6_	2.47	0.06	1.94		
RW	1195_	Sand	41.8_	2.43	0.13	2.12		11
RW	1281_	Sand	23.1_	2.51	0.00	2.03		
RW	1199	Silt	32.6_	2.55	0.10	2.845		
RW	1283	Silt	48.1_	2.62	0.03	2.46		
RW	1225_	Shale	94.5	2.72	0.10_	2.99		
RW	1217_	Shale	109	2.72	0.17_	2.72		1
RW	12168	Shale	84.9_	2.66	0.12_	3.32		
RW	12037	Shale	27.4_	2.63	0.07_	2.71_		
RW	11916	Sand	29.2	2.35	0.14	1.91		
New Cu Block (Discrm	Curve							
				ervals	_	Z	Zone	
+ U_	s	tart	St	op				
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FaciesID module for defining facies classes.



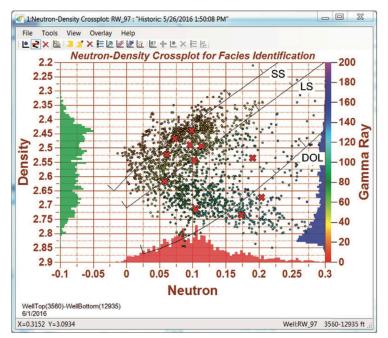
The resulting log plot with blocked curves and output facies.



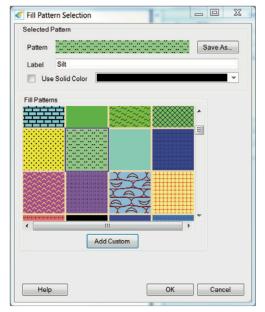


User Options General Well Display Naming	Categorical Types							
- Curve Alias Tables	HD_Curve							
- Type Resolution Tables - Curve Settings Tables	Index Label							
- Fill Patterns	Lithology MFrac_Lithology							
- Colors - Interpreter Filter/Priority Lis	MS_STAGE							
- Preferred Folders	Sand_Silt_Shale							
Project Options								
- Configure CRS Conversio - Categorical Types								
			Name	Fill Pattern	Fill Color			
		Value	Name	FillPattern	FIII COIOF	Description		
	1	Value 1	Sand	Fill Pattern		Description Sandstone		
	1							
		1	Sand			Sandstone		

Categorical data table used for facies definition.



The seed points for Facies Classification can be picked and viewed in Crossplots and/ or Logplots.



Interactively build custom Fill Patterns.

Simply select seed points for different facies from Logplots or Crossplots. Then edit seed points and dragand-drop to new locations. Change electrofacies classifications by simply selecting new categories from a dropdown list.

"**PowerLog FaciesID** makes it easy to generate facies logs in sand shale sequences or complex carbonates."

> **Operating System Requirements:** Windows® XP and Windows® 7.

Recommended Minimum Hardware: 8 Gbytes of RAM.

Interoperability: Works in PowerLog[®].



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