Example:

Effects of flushing by mud filtrates

## Coring with water base mud

Oil zone at minimum interstitial water saturation:

flushing by bit			sat at surface trip to surface compared to res		
$s_{\mathbf{w}}$	1	$\downarrow$	? probably ↑		
So	1	1	Į.		
$S_g$		1	1		

Gas zone at minimum interstitial water saturation:

flushing by bit			trip to surface compared to res	
S <sub>w</sub>	1	1	?	
$S_{\mathbf{o}}$	-	-	-	
$S_g$	1	1	?	

Water zone:

flushing by bit			sat at surface trip to surface compared to res		
$s_w$	-	<b>1</b>	<b>\</b>		
$S_{\mathbf{o}}$	-	•	-		
$S_g$	-	1	<b>↑</b>		

## Coring With Oil Base Mud

Oil zone at minimum interstitial water saturation:

flushing by bit		sat at surface trip to surface compared to res		o res
$S_{\mathbf{w}}$	-	•	-	
$S_{0}$	-	1	1	
$S_g$	- -	<b>↑</b>	1	

Gas zone at minimum interstitial water saturation:

flushing by bit			sat at surface trip to surface compared to res	
$s_{\mathbf{w}}$	<b>-</b>	•	•	
$S_{o}$	1	1	1	
$S_g$	1	<b>↑</b>	1	

Water zone:

flushing by bit			sat at surface trip to surface compared to res	
$s_w$	$\downarrow$	$\downarrow$	1	
$S_{\mathbf{o}}$	<b>↑</b>	<b>\</b>	<b>↑</b>	
$S_g$	-	· 1	<b>↑</b>	