# Full Layout Templates

This document provides a description of the full layout view templates and interpretation view templates defined for the Sondex tools (in SondexTemplates.kvt) and the Schlumberger tools (in SchlumbergerTemplates.kvt) in Emeraude.

The full layout templates described here are made of a combination of different type of view templates:

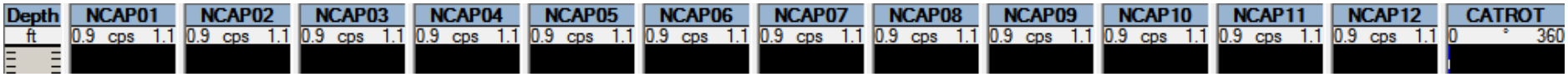
- Automatic views, also visible individually under the Automatic views folder.
- Rate view templates, also visible individually under the Rate views folder.
- User view templates generated for one pass selected by the user, also visible individually under the User views folder.
- Interpretation view templates (for the active interpretation), also visible individually under the Interpretation views folder. This one is organized by type, and contains the PL reference and Match views, the PNL volume views, the MPT processing result views and the APERM views.
- Image view templates generated for one pass selected by the user, also visible individually under the Image views folder.
- Well view templates, also visible individually under the Well views folder.
- Depth, zones display, volume of fluids and well sketch view templates, also visible under the Other folder.

For more information about the Full Layout Templates and other types of templates, please refer to the online Help of Emeraude.

# I. Sondex Full layout Templates

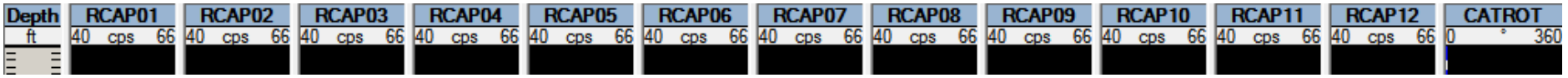
## CAT N Probes

Call this full layout template to display the CAT normalized data (NCAPxx) and its relative bearing (CATROT) :



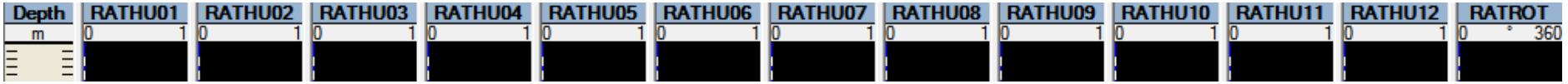

## CAT R Probes

Call this full layout template to display the CAT raw data (RCAPxx) and its relative bearing (CATROT) :



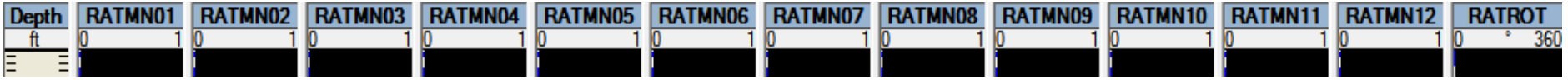

## RAT HU Probes

Call this full layout template to display the RAT Holdup data (RATHUxx) and its relative bearing (RATROT) :



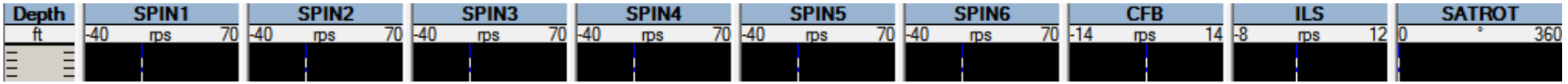

## RAT MEAN Probes

Call this full layout template to display the RAT Mean data (RATMNxx) and its relative bearing (RATROT) :



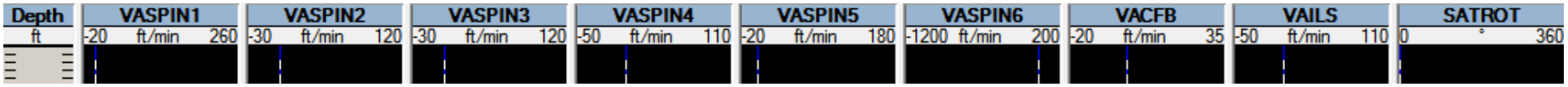

## SAT Spinners

Call this full layout template to display the 6 SAT spinner rps readings (SPINxx), the SAT bearing data (SATROT), a fullbore spinner data (CFB) and an inline spinner data (ILS):



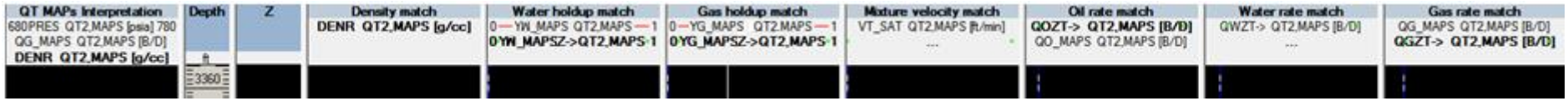
## SAT - V apparent

Call this full layout template to display the 6 SAT spinner velocities (VASPINxx), the SAT bearing (SATROT), a fullbore spinner velocity (VACFB) and an inline spinner velocity (VAILS):



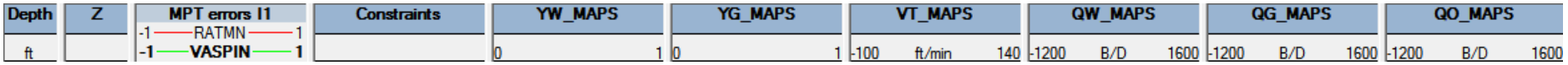

## Interpretation match

Call this full layout template to display the curves selected for the interpretation (Interpretation # x), depth, zone display (Z), phase holdups match views, mixture velocity match view, and phase rates match views. It is also possible to display a temperature match view, a density match view, a capacitance match view and phase velocities match views when these measures are available. In the example below, the interpretation relies on the inputs of a density, a water holdup, a gas holdup, the phase rates and a mixture velocity.




## MPT processing

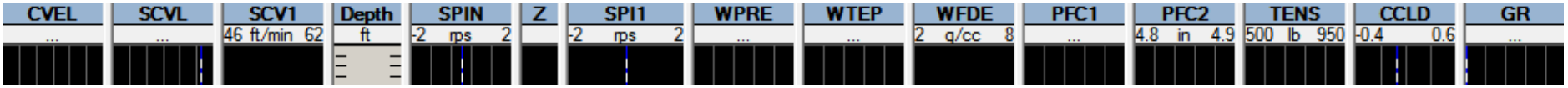
Call this full layout template to display the curves obtained from the processing of the MAPS tool: depth, zone display (Z), MPT errors, MPT constraints, phase holdups, mixture velocity and phase rates.



# II. Schlumberger Full Layout Templates

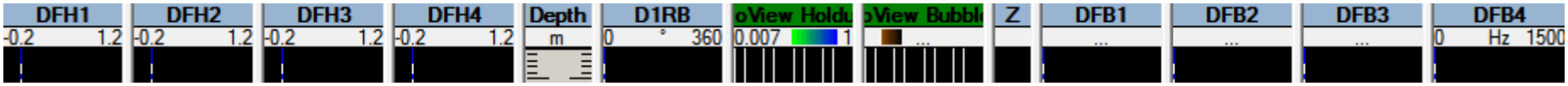
## PSP Basic Sensors

Call this full layout template to display the unmemorized cable velocity (CVEL), memorized PFCS cable velocity (SCVL), memorized PILS cable velocity (SCV1), depth, PFCS spinner (SPIN), zones display, CFS/PILS spinner (SPI1), PBMS pressure (WPRE) and temperature (WTEP), PGMS density (WFDE), PFCS-X (PFC1) and PFCS-Y (PFC2) calipers, cable tension (TENS), PBMS CCL (CCLD) and gamma ray (GR).



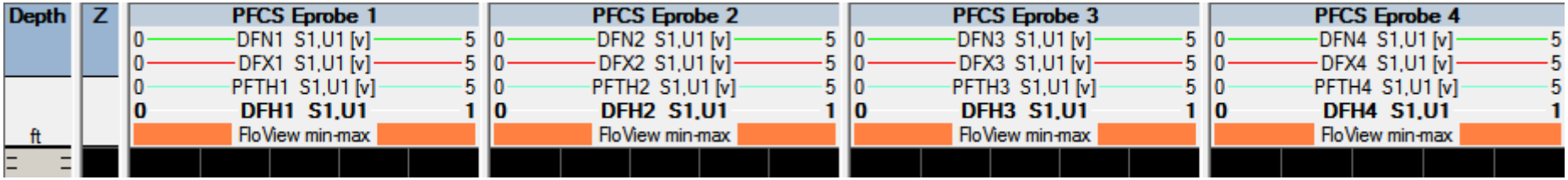

## PFCS Holdup and Bubble Count

Call this full layout template to display the 4 PFCS holdup sensors (DFHx), depth, PFCS probe 1 Relative bearing (D1RB), FloView Holdup image, FloView Bubbles image, zones display (Z) and the 4 PFCS Bubble sensors (DFBx).



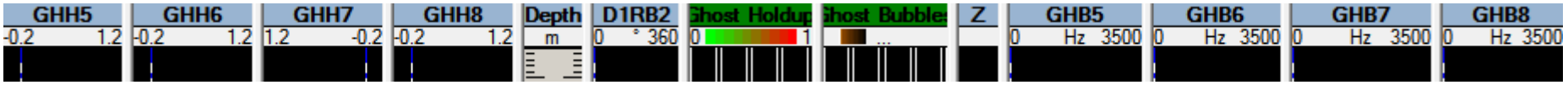

## PFCS Probe LQC

Call this full layout template to display per pass and for the 4 electrical probes, the non water baseline (DFNx), water baseline (DFXx), the dynamic threshold (PFTH1x), the computed water holdup (DFHx) and the FloView minimum (hydrocarbon continuous phase) and maximum (water continuous phase).



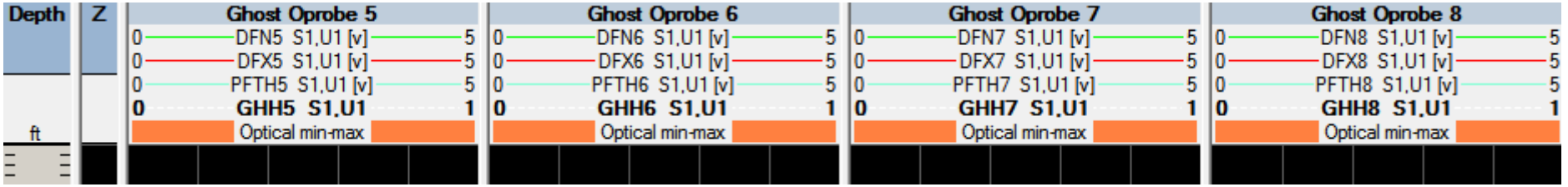
## GHOST Holdup and Bubble Count

Call this full layout template to display the 4 GHOST holdup sensors (GHHx), depth, GHOST probe 5 Relative bearing (D1RB2), GHOST Holdup image, GHOST Bubbles image, zones display (Z) and the 4 GHOST Bubble sensors (GHBx).



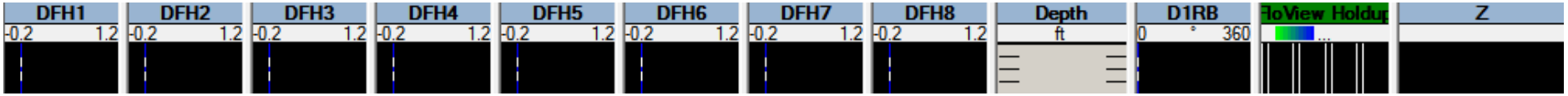

## GHOST Probe LQC

Call this full layout template to display per pass and for the 4 optical probes, the non gas baseline (DFNx), gas baseline (DFXx), the dynamic threshold (PFTHx), the computed gas holdup (GHHx) and the optical minimum (water gas plug slug flow) and maximum (gas continuous phase).



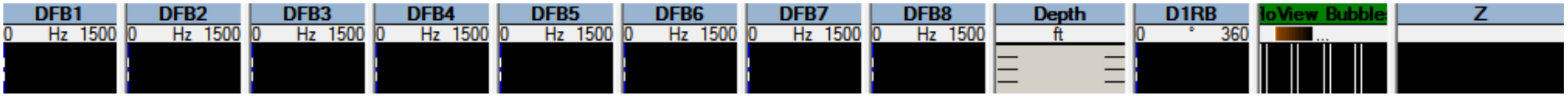

## Dual DEFT Holdups

Call this full layout template to display the 8 holdup sensors of a DEFT-PFCS combination (DFHx), depth, PFCS probe 1 Relative bearing (D1RB), FloView holdup image and the zone display (Z).



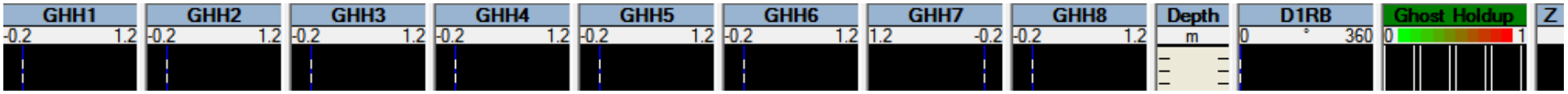
## Dual DEFT Bubbles

Call this full layout template to display the 8 bubble sensors of a DEFT-PFCS combination (DFBx), depth, PFCS probe 1 Relative bearing (D1RB), FloView bubbles image and the zone display (Z).



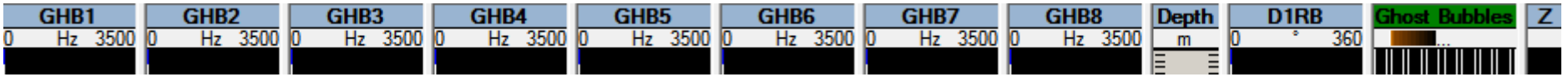

## Dual GHOST Holdups

Call this full layout template to display the 8 holdup sensors of a GHOST-GHOST combination (GHHx), depth, PFCS probe 1 Relative bearing (D1RB), GHOST holdup image and the zone display (Z).



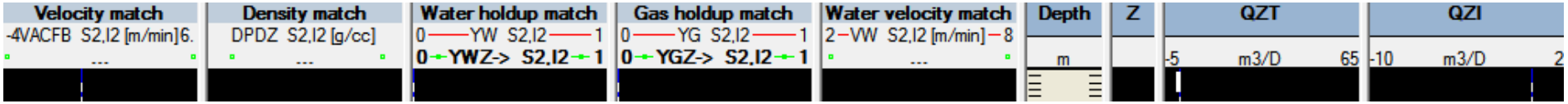

## Dual GHOST Bubbles

Call this full layout template to display the 8 bubble sensors of a GHOST-GHOST combination (GHBx), depth, PFCS probe 1 Relative bearing D1RB), GHOST bubbles image and the zone display (Z).



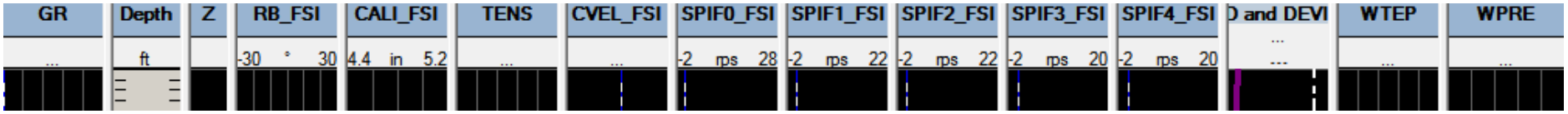

## PSP Reconstruction Quality

Call this full layout template to display the velocity, the density, the water holdup, the gas holdup and the water velocity match, depth, zone display (Z), total flow rate (QZT) and zonal inflow (QZI).



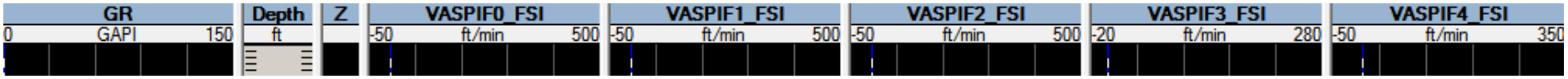
## FSI Spinner View

Call this full layout template to display the PBMS gamma ray (GR), depth, zone display (Z), FSI Relative bearing (RB_FSI), FSI caliper (CALI_FSI), cable tension (TENS), FSI cable velocity (CVEL_FSI), the 5 FSI spinners rps readings (SPIFx_FSI), TVD and deviation, PBMS temperature (WTEP) and pressure (WPRE).



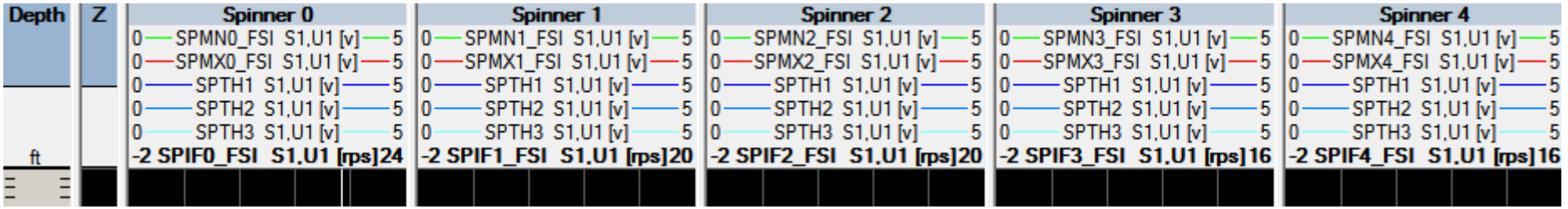

## FSI Spinner Velocity View

Call this full layout template to display the PBMS gamma ray (GR), depth, zone display (Z) and the 5 FSI spinner velocities (VASPIFx_FSI).



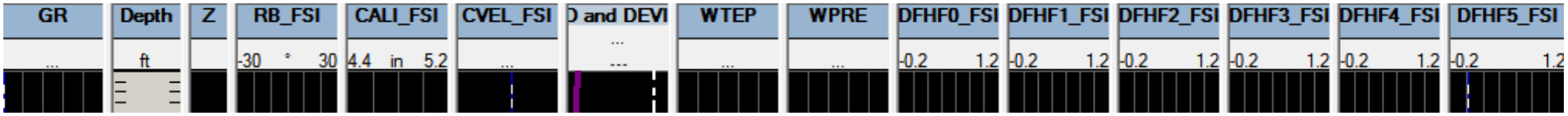

## FSI Spinner LQC View

Call this full layout template to display per pass and for the 5 FSI spinners, the minimum (SPMNx) and maximum (SPMXx) spinner voltage, the first (SPTH1), second (SPTH2) and third (SPTH3) downhole thresholds and the rps readings (SPIFx_FSI).



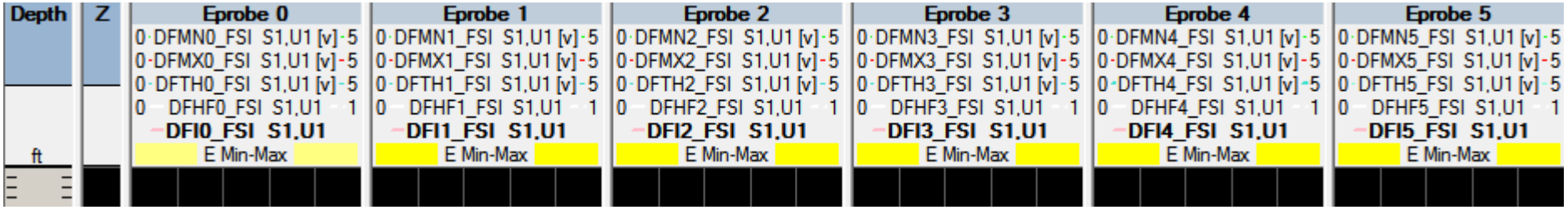
## FSI Electrical Probe View

Call this full layout template to display the PBMS gamma ray (GR), depth, zone display (Z), FSI Relative bearing (RB_FSI), FSI caliper (CALI_FSI), TVD and deviation, PBMS temperature (WTEP) and pressure (WPRE) and the 6 FSI electrical probes (DFHFx_FSI).



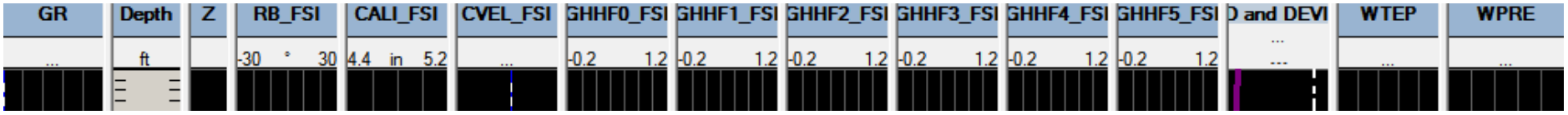

## FSI Electrical Probe LQC

Call this full layout template to display per pass and for the 6 electrical probes, the non water baseline (DFMNx_FSI), water baseline (DFMXx_FSI), the dynamic threshold (DFTHx_FSI), the computed water holdup (DFHFx_FSI), the electrical probe downhole impedance (DFIx_FSI) and the FloView minimum (hydrocarbon continuous phase) and maximum (water continuous phase).



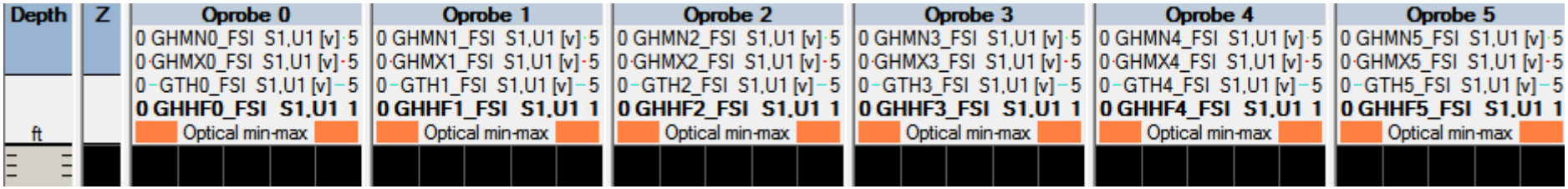

## FSI Optical Probe View

Call this full layout template to display the PBMS gamma ray (GR), depth, zone display (Z), FSI Relative bearing (RB_FSI), FSI caliper (CALI_FSI), FSI cable velocity (CVEL_FSI), the 6 FSI optical probes (GHHFx_FSI), TVD and deviation, PBMS temperature (WTEP) and pressure (WPRE).



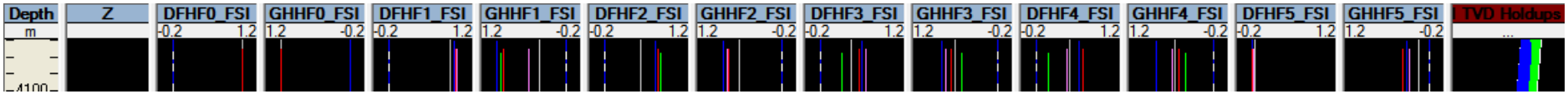
## FSI Optical Probe LQC

Call this full layout template to display per pass and for the 6 optical probes, the non gas baseline (GHMNx_FSI), gas baseline (GHMXx_FSI), the dynamic threshold (GTHx_FSI), the computed gas holdup (GHHFx_FSI) and the optical minimum (water gas plug slug flow) and maximum (gas continuous phase).




## Shale Gas Holdup

Call this full layout template for shale gas wells as it shows the FSI gas and water holdup probes on reversed scales for quick quality control.




## FSI Interpretation View

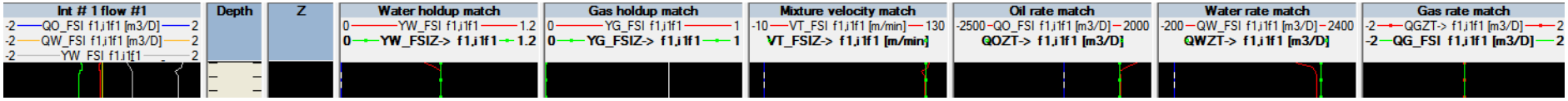
Call this full layout template to display the water, oil and gas rate match, depth, zone display (Z), FSI reconstructed holdup image view, FSI reconstructed velocity image view, a well view with the FSI holdups (FSI TVD holdups), total flow rate (QZT) and zonal inflow (QZI).

## TPHL Processing

Call this full layout template to display the TPHL saturations, depth, well sketch, zone display (Z), TPHL holdup, a well view with the THPHL holdups (TPHL TVD holdups), NCOR, FCOR and NICR reconstruction views.

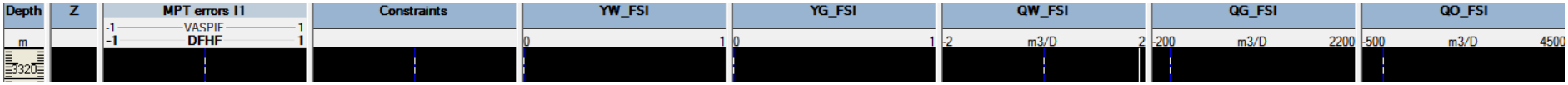

## Interpretation Match

Call this full layout template to display the curves selected for the interpretation (Interpretation # x), depth, zone display (Z), phase holdups match views, mixture velocity match view, phase velocities match views and phase rates match views. It is also possible to display a temperature match view, a density match view and a capacitance match view when these measures are available. In the example below, the interpretation relies on the inputs of a water holdup, a gas holdup, the phase rates and the mixture velocity.




## MPT processing

Call this full layout template to display the curves obtained from the processing of the FSI, the GHOST or the PFCS tool: depth, zone display (Z), MPT errors, MPT constraints. With a FSI tool, generating the phase holdups and phase rates, one obtains:




## Steam Quality

Call this full layout template to display the depth, zone display (Z), the well sketch, the steam MFR (Mass Flow Rate) and the steam quality.

## Steam Quality LQC

Call this full layout template to display the steam pressure and temperature LQC, the depth, zone display (Z), the well sketch, the water and steam densities, the VPCF for steam and the superficial velocity of water.