

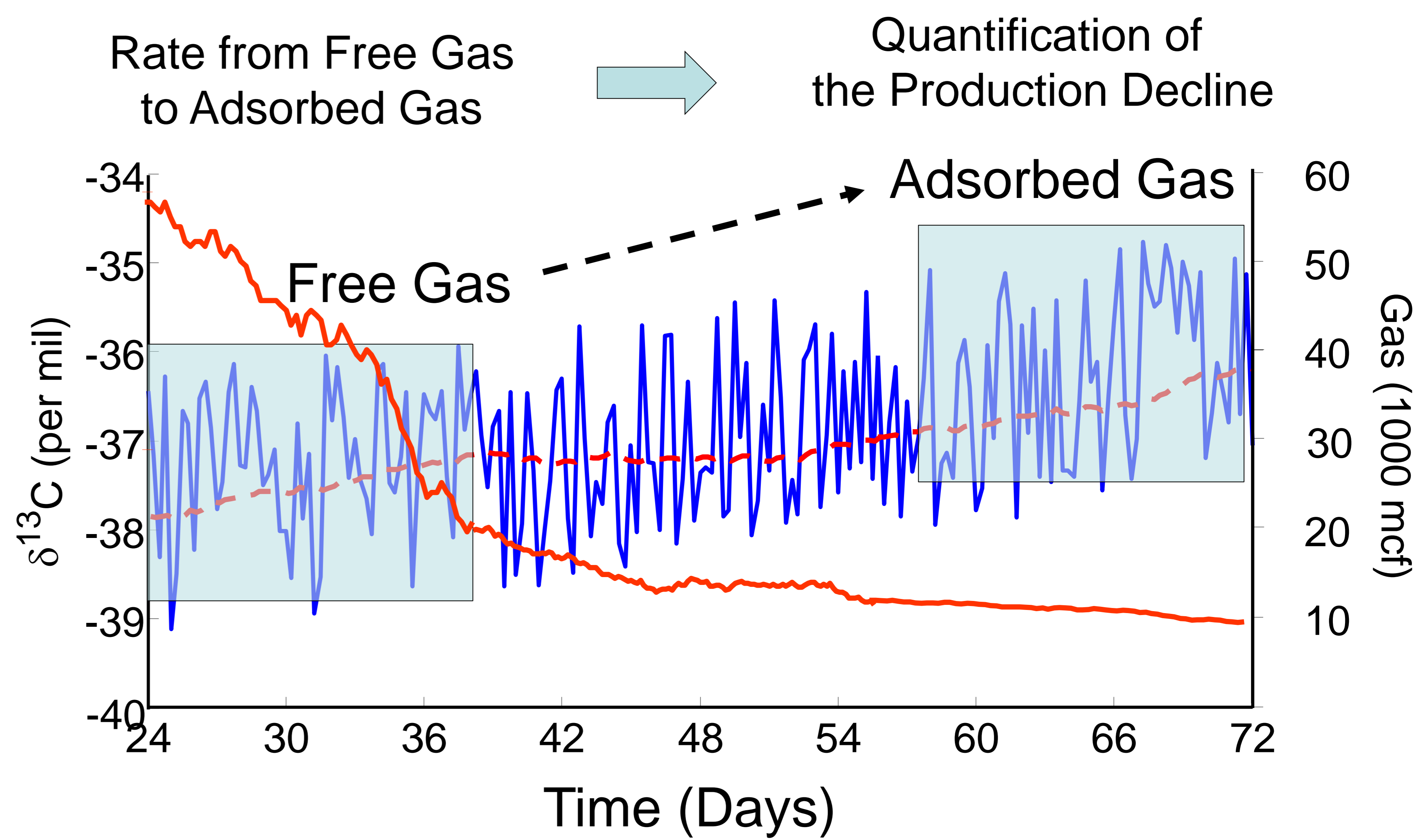
# Real-Time Gas Isotope Measurement (RT-GIM™)

## An Unique Tool for Mud Gas and Shale Gas Logging

### Shale Gas:

#### Optimizing productivity

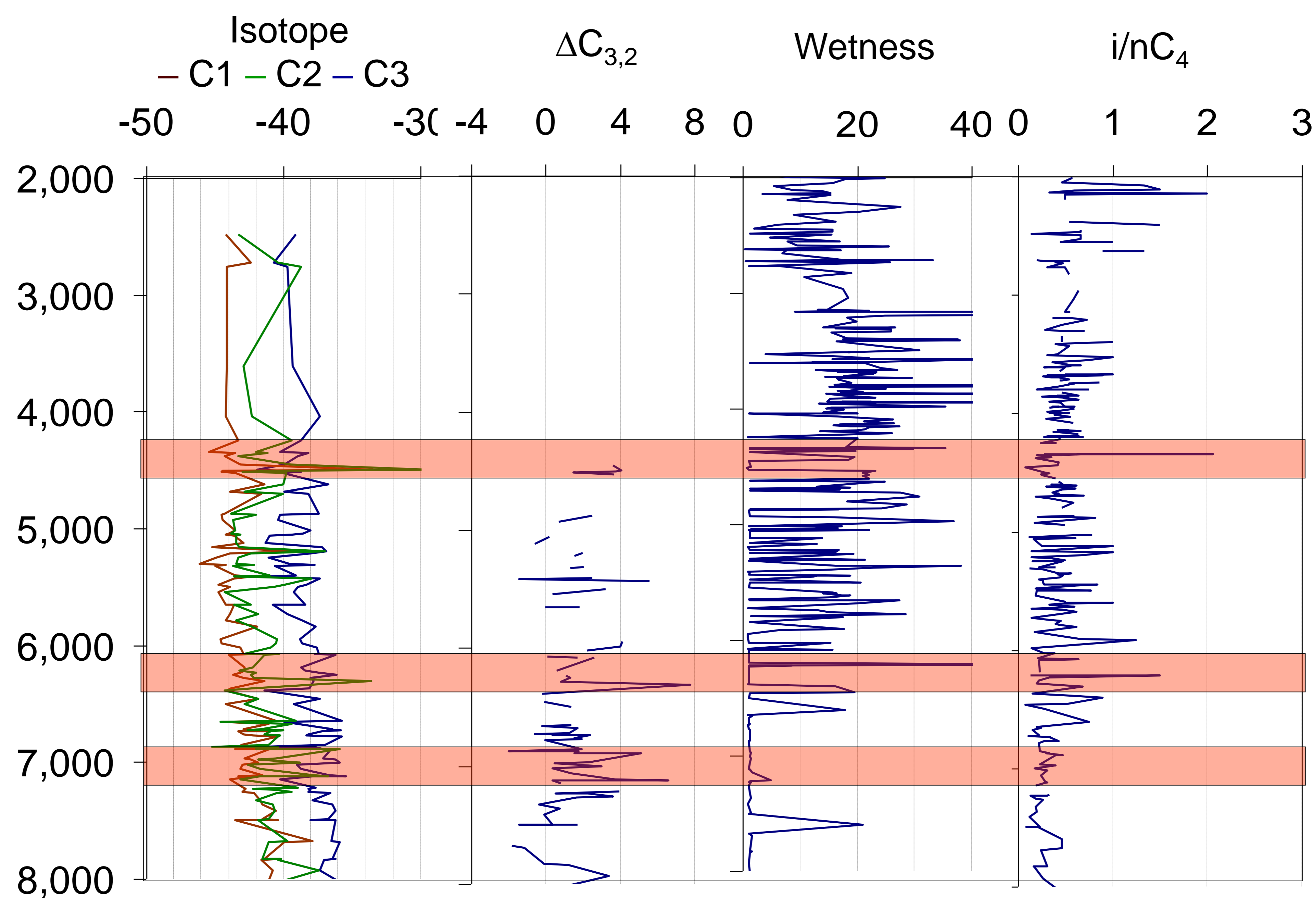
- Distinguish free gas and adsorbed gas
- Predict porosity, permeability, connectivity
- Predict the productivity trend



High Frequency Gas Isotope Measurement leading to reliable trend

### Mud Gas:

- Find the high-productivity intervals
- Gas Type, Maturity
- Gas/Oil Ratio Prediction



### Advantages of RT-GIM™

- Expert system provide data interpretation and analysis
- Optical based isotope analyzer provide fast and reliable analysis
- Single instrument: economic, simple, light
- No vacuum and reference gases needed
- Easy maintenance and tuning
- With deuterium analysis
- Fast analysis
  - Carbon and hydrogen isotope of methane every 2 minutes
  - Carbon isotope of ethane and propane every 10 minutes