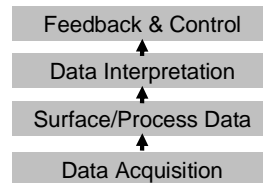
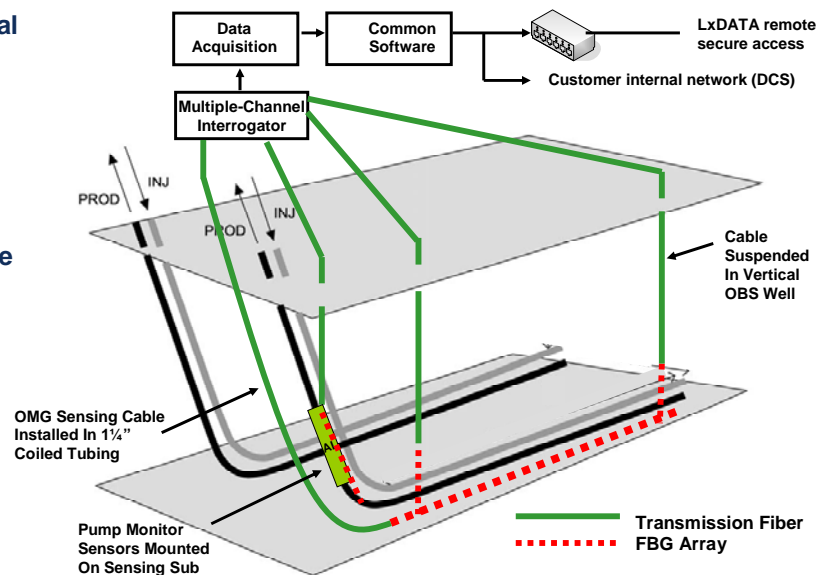


# Vision: Integrated Pad-Level Monitoring

- Major Elements
  - Sensors
    - Distributed Thermal
    - Optical Pressure
  - Deployment
    - Flexibility “where and when”
    - Vertical and Horizontal Wells
  - Data Management
    - Remote Storage and Analysis
    - Monitoring and Alarming
    - Correlated Pressure/Temperature
    - 3D/4D visualization tools
    - Thermal Transient/Flow Analysis
    - Integration with Surface System



## Integrated SAGD Monitoring System



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