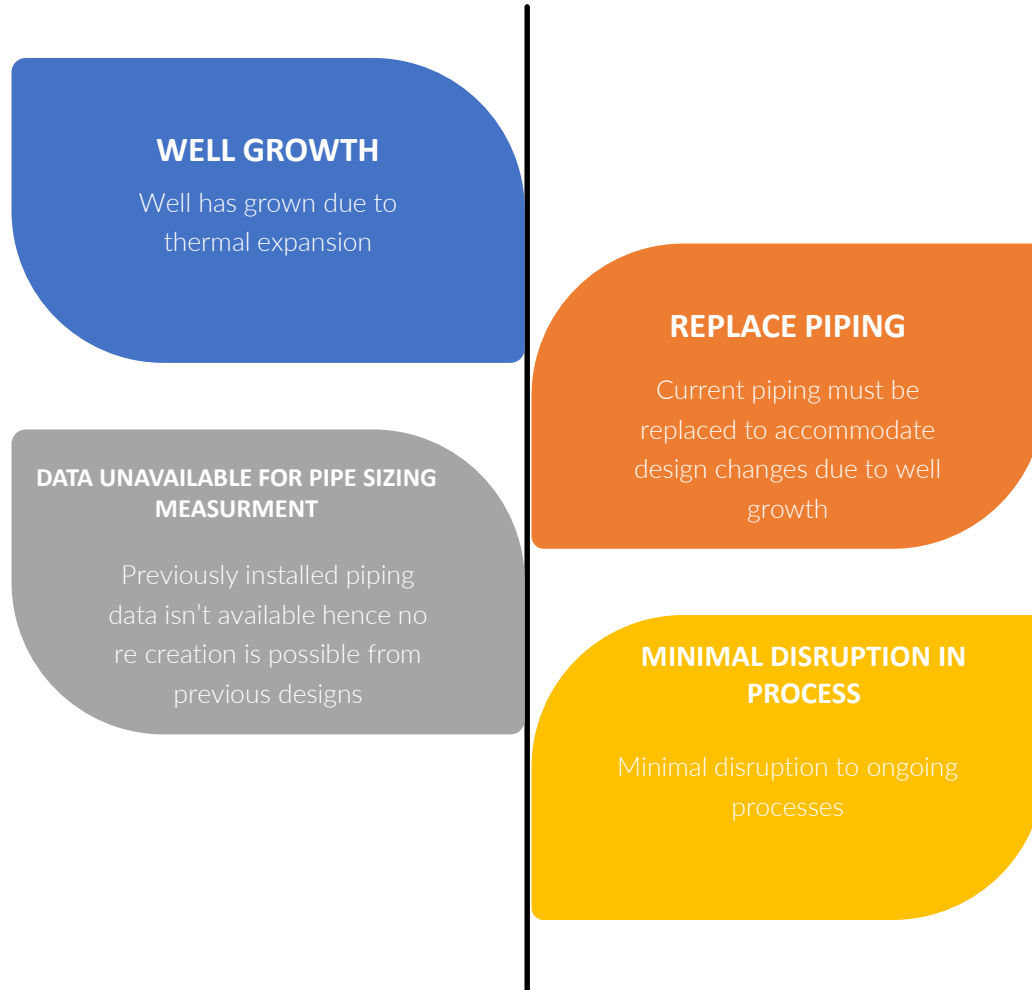


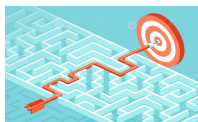
# ENGINEERING SURVEY AND DRAWING PREPARATION





## Challenges Faced by Shell

- Well has grown due to thermal expansion.
- To replace the old piping due to well growth, stress analysis needs to be done on new pipeline.
- No data available with Shell for existing pipeline and nozzle.



## Solution Approach by Petrodia

- Analysing the well head, the process, parameters, piping, instruments used, nozzles and other process related equipment attached.
- Inspecting, pipeline tracing, equipment identification to prepare Isometric Drawings Built In.
- Recommending piping and nozzle dimensions for new piping to be fabricated and installed



## Results Delivered by Petrodia

- Current and new piping dimensions provided
- Documentation will help accurately model stress analysis of the new pipe to be installed
- It is a running plant (brown field), **time and cost being saved** for installing a new pipeline. As Petrodia has provided accurate dimensions and analysis which will **reduce downtime** for the well head hence **minimal production losses** and **cost saving** for the client

