

## February 6<sup>th</sup> 2018

- Discussion about the Piping, Motor/pump, Volumes for tanks (sand, water, additive, mixer)
- Construct scheduling up until purchase of materials
- Propose dimensions for piping
- Discussed about drawing schematic of the loop

## February 8<sup>th</sup> 2018

- Discussed changes/ modifications needed
- Presented solutions to problems in designing the annulus
- Construct basic schematic for the Slurry Loop

## February 12<sup>th</sup> 2018

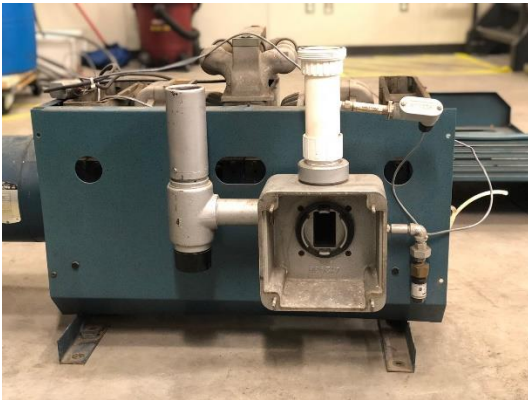
- Construct schematic for Slurry Loop including Pipe dimensions, Testing instruments, Discussion of annulus, Sizing for tanks
- Run calculations to see if pump gifted will meet slurry loop designs
- Discuss weight of slurry and flow rates



*Record specifications of existing slurry pump for the use in the project*



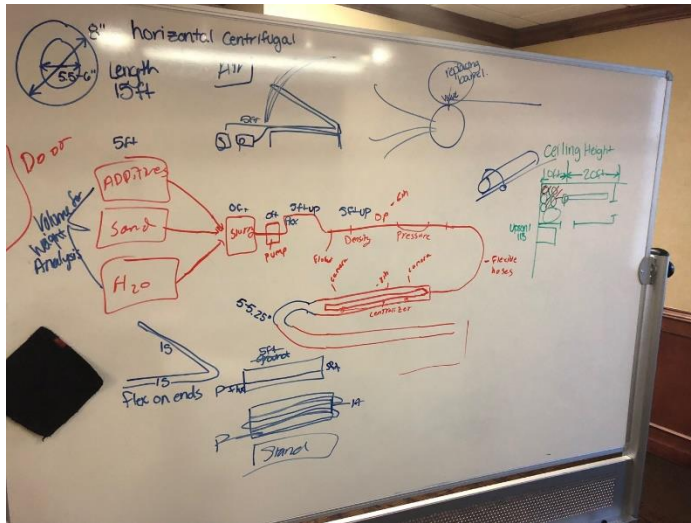
*Taking apart second pump to find specifications*



*Fluid inflow compartment of pump #2*

## **February 15<sup>th</sup> 2018**

- Finalized dimensions for piping including annulus space, drill piping, hoses, fittings/converters
- Finished schematic for ME's to construct Slurry Loop in online software
- Research on additives and sand to be used



*Finalized schematic for Slurry Loop Project*

**February 24th 2018**

- Petroleum Engineers visit LSU campus for PetroBowl
- Mechanical Engineers started designing first steps on ANSYS
- Discussed particle size and concentrations
- Finalized budget estimate for building the slurry loop