**Complete Lab Database**

**Missing Data:**

* There is missing data in the lab db. Need to ensure all relevant data is in the lab db for ease of consumption and integration. Various sources are still referenced which include:
  + Excel tables
    - Multiple locations on the ‘P’ drive
  + client folders
  + blend folders
  + old manuals
  + Power BI
* Finish importing data into the system
  + Determine the “approved” data from the legacy data and import it into the database
* 1 page report (Imperial) is not in the lab db
  + Need to ensure that all data created by the lab is available in the database
  + Investigate what else is missing
* Minimize time to populate database
  + Can the upload process be streamlined / integrated?
* Ensure everyone knows where the lab data is stored and how to use it
* Modify/update Power BI for lab data consumption
  + Some comments on how the various tools operate
* Add linkage to bulk plant load ID
* Add additional tests to lab db
* Link to SDS?
  + Or how does the lab database link to the technical library tool overall?
* Create technology encyclopedia
  + Is this a combination of the SDS?
  + Make this a searchable tool to look for products that do certain things
  + What does this look like?

**Add additional test details to test request form (template) / lab database**

* Add time to 100 lb/100ft2 for SGSA test
  + Need to define what this looks like
* Add surface rheology
  + Need to define what this looks like
* Add BHCT/BHST for rheologies
  + Need to define what this looks like
* Add wettability/compatibility
  + Need to define what this looks like
* ~~MT-2 shows up in salts section~~
* Specify preblend/prehydrate – for preflushes/spacers - only for cement blends right now
  + Need to look how to do this in the template
* Add compressive strength method – cubes/UCA selection box in test request
* Add conditioning time
  + Need to define what this looks like
* Add heating time
  + Need to define what this looks like
* Adding request # to generated emails/workflow for new requests?

**Job design / lab db integration for blend selection**

* Blend Selection: (narrow down from SPT, density, required performance properties, base blend or other) from the job design tool and populate associated data from the database
* Ability to select blends based on required performance criteria
* Linkage to program #, call sheet #, ticket #

Press “Blend Selection”, or other name, button in job design template

Bring up data entry:

An example of the data entry is below. Enter as much, or as little, as required

Table

Description automatically generated

* Will require wellbore information to be entered prior to calculate the temperatures

Click “Enter” to bring up results from the lab database that meet criteria.

Graphical user interface, application, Word

Description automatically generated

“Double Click” the base blend. The blend, additives and associated properties populate the job design.

This will include test # and additional information.

Thermal, Expandable, Gas Tight and Thixotropic will be characteristics added to “Master Data”.

Are we missing data currently being captured in the lab data?

An example may be:

Table

Description automatically generated

Table

Description automatically generated