The reservoir information that we would need or if available:

Review of the reservoir modeling requirements

- Structural Mapping and Seismic Data for area
- Seismic survey vintages e.g. 2D, 3D, processing, interpretation, inversion and attribute results and reports with SEGY format
- Reports from exploration phase to production
  o Geological basin evaluation and prospect generation reports
  o Appraisal reports
  o Master development plan and production reports
  o Enhanced oil recovery screen report and main reasons for Polymer flooding selection
  o Pool areal extent and thickness
  o Pool lithology and heterogeneities
  o Pool OOIP
- Drilling reports
- Well locations and trajectory
- Well completion report
- Wellsite geologist report
  o Coring reports
  o Coring data
  o Core locations
  o Core plug testing
  o Stress testing reports for reservoir and caprock
  o Geomechanical reports on reservoir and caprock
  o All Lab reports
- Logs including cement bond log
- Cementing information, manufacturer or suppliers production data sheets on product
- Completion reports
- Rig and workover reports
- Production data and history
  o This must be put on a production spreadsheet to compare areas being affected by neighboring wells,
    ▪ run times,
    ▪ fluid samples
    ▪ Water cuts

- reservoir response,
- fluid levels shots information
- Injection data and history
- Lab reports on production
  - Water fingerprinting
  - Crude oil analysis
- Well test reports and data including pressure and rate transient analysis
- Well performance analysis report
- Geological basin and stratigraphy reports
- Existing geological model in Petrel or RMS
- Existing simulation model in CMG, ECL, …
- Petrophysical analysis report
- EOR screening report and reason of Polymer flooding selection
- Flow assurance problems and challenges in wellbores and pipes including asphaltene precipitation, scale, hydrate, paraffin, etc.
- Well information to be put on spreadsheet with attached data for each well
  - Depth
  - DST
  - BH Temperature(downhole gage)
  - BH Pressure(downhole gage)
    - Existing
    - Initial and original Input and output
  - Characteristics
  - Porosity logs
  - Geological facies and lithology from seismic or well logs
  - Permeability logs
  - Phase viscosity and density
  - Phase behavior reports
  - Relative permeability and capillary pressure measurements
  - Fluid composition
  - Compressibility
  - Gas Injection requirements
    - S/W
    - Rw
    - Rt