

RESERVOIR ENGINEERING CAPABILITIES

CORE STRENGTH

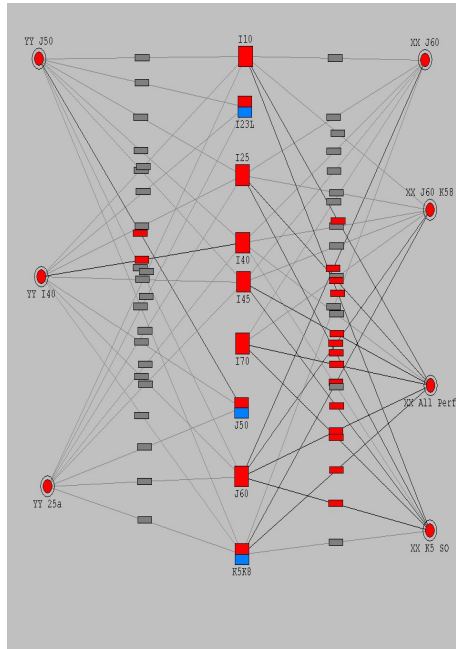
- Building, history matching and optimizing reservoir development plans using black oil and compositional reservoir simulators.
- Application of IOR (improved oil recovery) techniques (waterflooding, miscible/immiscible gas flooding)
- IPM Integrated Asset Modeling
- Co-mingle wellbore modelling
- FDP planning for thin oil rims with large gas gaps
- Helping operators to pass Malaysia FDP Milestone Review gates (MR1,2,3,4)
- Asset evaluation and reserves/resource reporting for oil and gas fields
- Identification of infill drilling and work-over targets
- Classical reservoir engineering
- Welltest and production logging planning and analysis
- Planning, managing and interpretation of PVT and SCAL programs. EOS modeling
- Assurance and mentoring engineers

SOFTWARE

- Eclipse
- VIP
- tNavigator
- MBAL
- PROSPER
- GAP
- Open Server
- PVTp
- Sapphire
- Emerald
- Pansystems



Reservoir Engineering Capabilities



- Planning, managing and interpretation of PVT and SCAL programs
- Assurance and mentoring engineers

COMPANY EXPERIENCE

With offices in Europe and South East Asia, the company is managed by an experienced and reputable workforce. Sapella has developed solutions for the E&P business by combining engineering expertise with economic analysis. We assist our clients to achieve world class performance from their assets by providing skills, novel solutions, and software tools to realize maximum production potential. Sapella has conducted both reservoir and petroleum engineering in SEA on complex multi-stacked fields:

Chevron/ Unocal - Management of 100s platforms with up to 24 wells in stacked gas and oil reservoirs (Platong, Funan Erawan etc)

Repsol - Eclipse and IAM management for 100s of wells in stacked oil reservoirs (PM3 etc)

Murphy - IAM management for 100s of gas wells in stacked reservoirs (Sarawak fields)

BENEFITS TO OPERATOR

- No fixed running costs for team members as subsurface/ prod tech projects are completed as required
- Access to standard software packages
- Access to Sapella software packages and customized workflows

RESERVOIR ENGINEERING

Sapella delivers integrated, multi-disciplinary static and dynamic reservoir models using state-of-the-art software, to provide an accurate platform to predict future reservoir performance, determine optimal production techniques, minimize cost, and maximizing production rates and reserves. Our consultants combine deep functional expertise with practical experience in reservoir simulators and platforms to create dynamic 3D models, representing the fluid and rock properties, allowing for future reservoir performance predictions under various operating scenarios. Our services include but are not limited to:

- Green and Brownfield oil and gas field development planning using dynamic simulation and network modeling
- Specialists in management of stacked reservoirs using co-mingled material balance model
- Oil Production & Gas Deliverability Forecasting
- Asset evaluation and reserves/resource reporting for oil and gas fields
- Welltest and production logging planning and analysis

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