

TOOLS PROVIDED

ARTIFICIAL LIFT PTL

Screen well potentials with different artificial lift options

- ESPs
- Gas lift
- Jet pumps

IAM TOOL

Easy QC of input data

Automates repetitive tasks such as setting up GAP for forecasting

Links Excel to MBAL, GAP and Prosper

Create custom reports for forecasts

RSM IMPORTER

Provides a static link between Eclipse or TNAV and GAP

Tune data to latest production test data

Allows quick linking of GAP and Reservoir Simulation Outputs

PMT TOOL

Validate well tests using PROSPER

Review, rematch and reallocate historic production test data

Match PROSPER files to latest test data

Match GAP well and network points

Optimise with GAP and increase the certainty of the match

LIFE OF WELL ARTIFICIAL LIFT DESIGN

Life of well jet pump, ESP and gas lift design process

Specialised gas lift integrity checks to identify problems with surface measured data

Unloading wells safely during first time gas lift start up

CT gas lift for deep water wells

SHUT IN TOOL

Completes shut in calculations

Computes gas and liquid interfaces

Deducts approximate Pres from surface pressure

Analyses start up problems

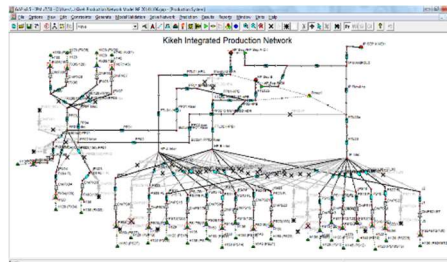
DUAL BORE GAS LIFT DESIGN

LoW dual bore gas lift design

Multipointing and gas lift problem analysis



INTEGRATED ASSET MODELLING CAPABILITY



DESCRIPTION

Sapella offers an extensive range of services to the oil and gas sector. One of Sapella's areas of focus is providing highly specialised services in integrated asset modelling with Petroleum Experts Software.

Sapella has software licences and extensive expertise in modelling with

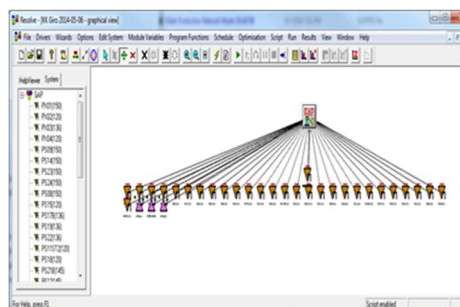
Resolve
GAP
PVTP
MBAL
Prosper
Open Server

WHAT IS UNIQUE?

- Automated workflows for production optimisation
- Specialised add on tools to optimise gas lift, jet pumps, ESPs or other artificial lift types
- Extensive experience in production optimisation, debottlenecking and forecasting
- Training material for operator staff
- Real examples and experiences

WE PROVIDE

- Reservoir Engineers
- Production Engineers
- Software Engineers
- Petroleum Engineers



SERVICES PROVIDED TO DATE

- The build of mega models
- General integrated production modelling & support (for IPM model with up to 700+ wells)
- Production optimisation and gas lift optimisation
- Real time monitoring and optimisation
- Oil production & gas deliverability forecasting
- Auto-matching of PVTP, GAP and Prosper models in real time or from Excel/ OFM databases
- Integration to production loss databases
- Links to solids lift models, advanced scale models and other flow assurance models
- Flow assurance studies & production de-bottlenecking
- Providing OpenServer links and integration to economic models for analysis
- Evaluating enhanced recovery options
- Linking to reservoir simulation tools (full field black oil & compositional simulation)
- Artificial lift systems – design & analysis
- Evaluating lower completion and perforation system selection
- Water injection skin analysis
- LNG and LPG projects with links to Hysys and other processing models
- Modelling large gas lift system networks
- Large water injection models

Sapella Technologies Germany

Hoher Wall 15, D-44137 Dortmund, Germany

Inquiries: hm@sapella.eu

Tel: +49 (0) 2324 6864874

Sapella Technologies UK

London Representative, UK

Inquiries: info@sapella.eu

Sapella Technologies Sdn Bhd

A-21-1 Hampshire Park#6 –8 Persiaran Hampshire,
50490 Kuala Lumpur, Malaysia

Inquiries: dc@sapella.eu

Tel: + 60 (0)17 6933649

Web : www.sapella.eu