

Downhole Sampling Reservoir Evaluation and Appraisal



Client:

Cairn Energy

Location:

Sangomar Field, Senegal

Equipment:

Single phase samplers run in Metrol 'Origin' DST sample carrier

and transferred into Proserv type 6 sample cylinders maintaining single phase status from field to laboratory for PVT analysis.

Conclusion

Proserv worked successfully with Metrol Technology, providing the client with a superior solution for their DST sampling operations. The project provided the client with real-time information and control and also reduced the amount of days offshore.

Benefits

- Samplers run in DST carrier instead of wireline
- Samplers individually fired, providing real-time data, using acoustic communication
- Days of rig time saved

Project Background

As part of the client's exploration and appraisal well test programme, Proserv collaborated with Metrol Technologies to provide a downhole reservoir sampling solution.

Solution

Proserv provided single phase reservoir samplers (SPSs), which were run in Metrol's Origin drill stem test (DST) sample carrier. By working together, the client was able to monitor and independently trigger each individual sampler using Metrol's wireless acoustic telemetry. This provides a huge benefit over more traditional annulus pressure operations where the client very quickly runs out of discrete rupture disc windows to operate individual DST tools.

Scope

Proserv mobilised equipment and personnel to West Africa and once the team were offshore they carried out a successful sampling campaign of the two planned zones. A total of four single phase samples were collected

