Geoservices

Mud Logging
Field Surveillance
Well Intervention

GEM-Valve

Keep depleted wells flowing without workover

Electromagnetic Surface Controlled Subsurface Safety Valves (SC-SSSV) allowed our client to avoid workover and keep their wells flowing.

PROJECT:

To secure and extend the life of depleted onshore wells.

CHALLENGE:

To install a suitable fail safe system controlled from the surface without the intervention of a workover rig.

SOLUTION:

By use of Geoservices GEM-Valve, Electromagnetic SC-SSSV technology, to avoid production losses.

BENEFITS FOR CLIENTS:

- Avoid the cost of a workover,
- No production losses,
- Fewer slickline operations,
- No time lost on pumping operations,
- Operational risks reduced.

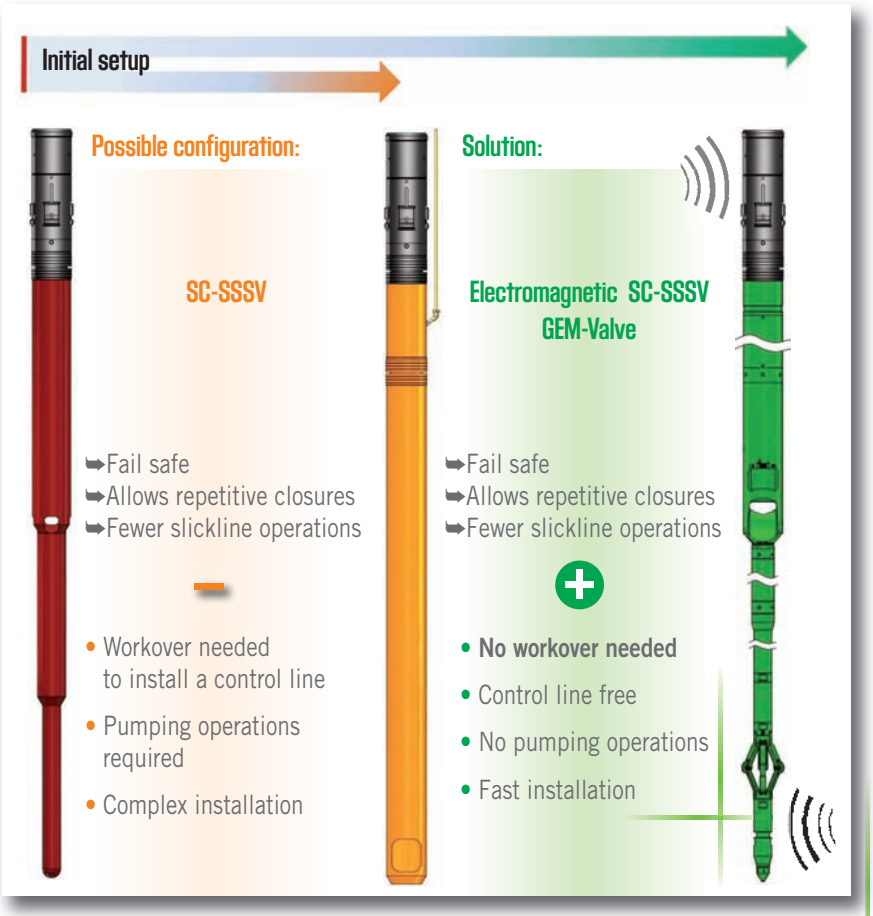
FACTS:

- At least 9 month autonomy of battery downhole,
- Fits the electric surface ESD safety system perfectly,
- Compatible with cathodic protection.

GEM-Valve, a Wireline Retrievable SC-SSSV, improves well safety and maximises reserves:

Our client wanted to extend the life of the wells in his mature fields, the ones causing high operating costs due to water disposal problems. Furthermore, the normally-open velocity and ambient valves used were no longer acceptable as unstable flowing conditions do not allow accurate and repetitive closure. No control line was available to install a hydraulic valve.

The decision was made to replace the SSCSVs with the new Electromagnetic SC-SSSVs and this was achieved without the need for a workover or any well head modification.



Case Study N°70901

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GEM-Valve

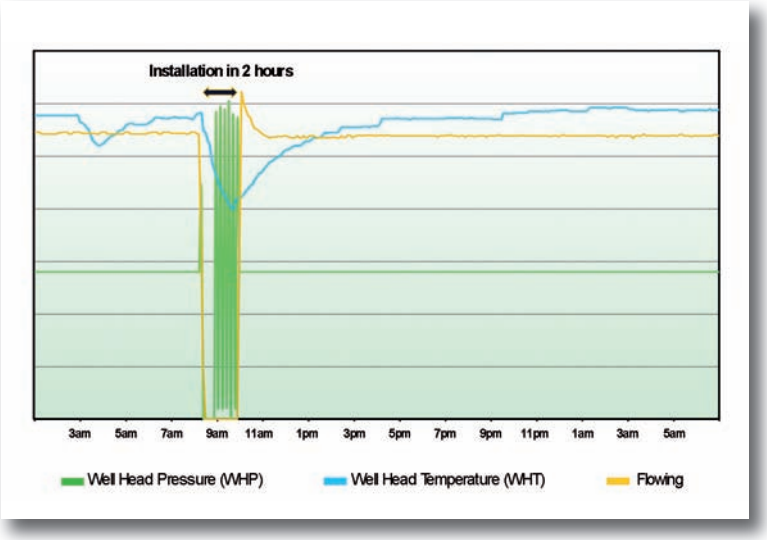
GEM-Valve solution
Fast, efficient and safe.

The monitoring chart below shows the production data during the installation of a GEM-Valve:

- **Total time of installation is less than 2 hours.**
  It took on average less than two hours, from the moment production was stopped to being started again, to install the GEM-Valves at a depth of 20m/70ft.

- **Back to the original flowing conditions within a short period of time** after reopening the well.

  ► No waste of time with a costly workover and associated risks.



Due to the flexibility of the surface installation, it was possible to integrate this valve into the existing electric surface ESD safety system.

All wells in this field were equipped with GEM-Valves.

CONTACTS:

Head Office:

127, avenue du Bois de la Pie
Paris Nord II • B.P. 67049 Roissy-en-France
95971 ROISSY CDG CEDEX • France
Tel: +33 (0)1 41 59 23 00
Fax: + 33 (0)1 41 59 23 23
E-mail: mail@geoservices.com

For additional information, please contact your local Geoservices representative.

District Offices:

north-europe@geoservices.com
west-africa@geoservices.com
mediterranean@geoservices.com
latin-america@geoservices.com
north-america@geoservices.com
middle-east@geoservices.com
north-asia@geoservices.com
south-asia@geoservices.com

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