

## Well Integrity Services

RAY International specializes in providing services in middle east region, represents IKM Production technology, Norway for well integrity services through Xamine system. Xamine system is a Rapid surface deployed measurement device to help our clients understand and determine:

- Sustained casing pressure sources
- Well maintenance needs
- Barrier controls
- Annulus leak rates
- Compliance with API RP 14B - Leak rate acceptance criteria
- Liquid levels and gas volumes

### Benefits

- Lightweight, modular well-site set up
- Portable and helicopter transportable
- No well intervention required
- No requirement for well shut in period
- Cost savings relative to alternative technologies

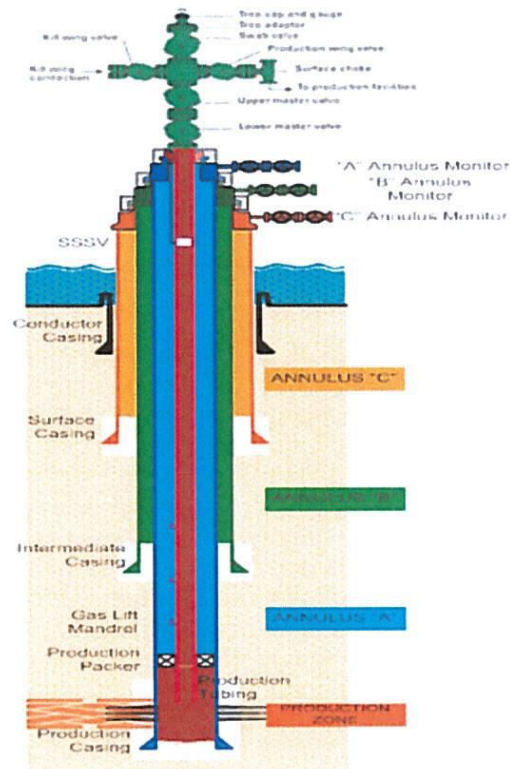
### Applications

- Improved understanding of gas leak sources.
- Integrity of gas lift, annular safety, and downhole safety valves. Both pre-and post-installation.
- Plug and abandon leak checks.
- Well Maintenance checks with regard to safety criteria.

### Features

The system consists of 4 modules; a Coriolis flow meter, a variable choke system, wireless pressure transmitters and a patented data acquisition software system. Other features include:

- Battery or mains powered
- Accurate to 0.1 scf/min
- 30 min / leak determination
- One-man operation



Typical well investigation area

