

# Compact™ Well Shuttle

## Conveys Super-Combo Wireline Package in Complex Wellbore, Enables High-Quality Logs in Memory Mode

### Objectives

- Acquire critical formation evaluation data in a complex 6 1/8-in. openhole wellbore with a 92.27° deviation. The operation will require pressure control during the operation because the well exhibits gas at the surface and high-friction conditions.
- Minimize rig time.

### Our Approach

- Working closely with the client, Weatherford deployed a wireline team for a thorough pre-job analysis. Because well conditions make use of conventional wireline techniques inadvisable, the team suggested use of the Compact well shuttle in memory mode. The shuttle would convey a super-combo Compact wireline package to acquire resistivity, spectral gamma ray, cross-dipole sonic, formation imaging, and nuclear data in a single run.
- The team encountered several restrictions while tripping in, which required circulation and rotation to reach total depth. Once the wireline package reached deployment position, the client circulated and homogenized the mud prior to starting the logging run.
- Next, they logged the openhole interval in a single run with no tool failures. The client was able to access the data when the toolstring reached the surface.
- The operation was complete in 3.6 days.

### Value to Client

- Through use of the Compact well shuttle and an super-combo wireline package, the Weatherford team obtained high-quality openhole data in a single run despite challenging hole conditions and a 92.27° deviation.
- The operation enabled full well control, including rotation and circulation, to facilitate a smooth trip to TD.
- The single-trip operation was complete in 3.6 days. This time—in addition to significantly reducing the operational risk of the job—represents about half the time required for a conventional logging job, which would require three trips. The rig time saved is valued at US \$162,000.

The Compact well shuttle and super-combo wireline package obtained high-quality openhole data in a single run despite challenging hole conditions and a 92.27° deviation.



#### LOCATION

Neuquén, Argentina

#### WELL TYPE

Unconventional oil and gas

#### FORMATION TYPE

Shale

#### HOLE SIZE AND ANGLE

6.125 in. at 92.27°

#### TEMPERATURE

205°F (96°C)

#### WELL DEPTH

12,887 ft (3,928 m)

#### PRODUCTS/SERVICES

- Compact well shuttle
- Compact memory logging services
- Compact spectral gamma ray tool
- Compact dual-neutron tool
- Compact photo density tool
- Compact array induction tool
- Compact microimager
- Compact cross-dipole sonic tool

