# ADAPTED SOLUTIONS

Calibrate & Certify Measurement instruments

Maintain a high level of technical excellence

Calibrating your logging tools is now possible!



CALIBRATE IT



**CERTIFY IT** 

The Center is the first link in the probes calibration chain for the borehole logging industry



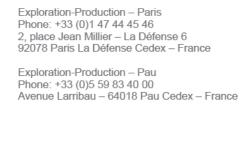


Total is a major energy player, which produces and markets fuels, natural gas and low-carbon electricity. Our 100,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.pany



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TOTAL S.A Share capital: 6 667 476 275,00 euros 542 051 180 RCS Nanterre





ANEW **CALIBRATION FACILITY AVAILABLE** FOR YOU!

**OPEN** TO ALL PLAYER

BRING & QUALIFY OUR R&D PROTOTYPE

- $\rightarrow$  Calibrate tools & methods with 'masters' standards
- → **Develop** new quantitative measurements
- → Improve the quality of existing probes

Stimulate innovative and «fit for purpose» services

# WELL LOGGING CALIBRATION CENTER

Now you can

Characterize new logging probe prototypes

Calibrate "Master" logging probes

Evaluate probe **environmental corrections** 

Calibrate & characterize your "secondary" standards by comparing with "Master" standards

Quantify uncertainties

Match your numerical logging tool models to analogical "standard" data

Base TACT: https://tep-asd.com/



## **STANDARDS**

AS7G03 aluminum alloy

corrections related to:

Mud cakes nature thickness

SAND PACK STANDARDS

Borehole fluid characteristics

independent of the pore fresh water

Drilling diameter

Drilling fluid density

**Quartzitic sands** 

**Dolomitic sands** 

High porosity values

2,4 mm thick glass

**FLUID STANDARDS** 

Freshwater & Brines

& sigma probes

Storage and fluid transfer activities

4 fluids to calibrate density porosity

to the sand packs & metal standards

epoxy liner

**ALUMINUM & COMPOSITE STANDARDS** 

Polyurethane aluminum composite

Characterization of environmental

In International System Unit



**ROCK** 

Labo +

building

Administrative



**FLUIDS** 





SAND







based on 3 criterias

Geological Petrophysical



- Dolomite
- 4 Porosity ranges 0 to 32%

## ROCK STANDARDS

Geochemical



- Made of 4 octagonal rock slabs
- Stored in cylindrical steel tanks
- Saturated with water or brines
- **3** Lithologies:
- Limestone

Rocks were chosen

- Sandstone

# • Radioactive source storage **REMOVABLE CASINGS** AND COMPLETIONS

TECHNICAL PLATFORM

• Private room for clients

• 7 Core cable winch

Control room

 Dedicated radio protective equipment • Bridge dech crane and handling equipment

Test your own master standards!

# **CASING AND TUBING STANDARDS**

## Oil industry Steel casing

- 13 Casing and tubing removable sleeves
- Outside diameter = 9'5/8 to 2'3/8
- Linear weight = 32.3 to 4.6 lb/ft
- 2 closed ended tubings to allows tubing fluide changes
- Perforated and unperforated



TEP ASD's quality policy for logging tool calibration services in agreement with ISO 17025 requirements.

The accreditation ISO 17025 is related to the density and porosity measurements on rock samples.

## **OPERATION**

Full & private access (daily rate) Technical assistance included Dedicated operator team

# **SAFETY**

All operations will respect contract confidentiality clauses



Visit us

www.tep-asd.total.com

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