

# CEL HYDRAULIC FRACTURING WATER ANALYSIS LABORATORY

## Applications

- Oil & Gas
- Field Use



## Get real-time results in the field in minutes.

Offering on-site results in an easy-to-use, rugged, portable lab, Hach's Hydraulic Fracturing Water Analysis Kit covers parameters critical to water analysis in oil and gas applications, including source water, fracturing fluid, produced water, flowback water, water treatment, drilling fluids, and enhanced oil recovery.

### Real-time Decisions

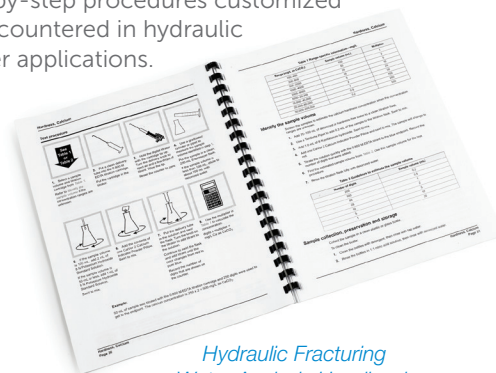
Designed to deliver simple, fast, on-site analysis in oil and gas applications, including source water, frac fluid, produced water, flowback water, water treatment, drilling fluids, and enhanced oil recovery.

### A Complete Field Laboratory

Includes reagents and apparatus necessary to measure 12 critical oil and gas parameters using the Digital Titrator, DR 900 Colorimeter, and HQ40d Multi-Parameter Digital Meter.

### Proven Methods Designed for Hydraulic Fracturing Water Applications

Includes step-by-step procedures customized for samples encountered in hydraulic fracturing water applications.



*Hydraulic Fracturing  
Water Analysis Handbook*



Be Right™

## Specifications\*

Parameter	Range	No. of Tests
Alkalinity (Phenolphthalein and Total) as CaCO <sub>3</sub>	10 - 4,000 mg/L	100
Bacteria (Iron-Related, Sulfate-Reducing and Slime-Forming)	Presence-Absence population estimation	9
Barium	0-8,000 ppm	100
Chloride as Cl <sup>-</sup>	100-200,000 mg/L	100
Conductivity	0.01 uS/cm - 200 mS/cm	Unlimited
Hardness, Total as CaCO <sub>3</sub>	100-200,000 mg/L	100 each range
Hardness, Calcium as CaCO <sub>3</sub>	100-200,000 mg/L	100 each range
Iron, Total as Fe	0-300 mg/L	100
pH	0 -14 units	Unlimited
Sulfate as SO <sub>4</sub>	0 -7,000 mg/L	100
<i>Additional parameters not included in the kit:</i>		
Boron	0 to 50.0 mg/L	
Chloride (IntelliCAL™ ISE)	0 to 35,000 mg/L	

\*Subject to change without notice.

## Ordering Information

Each laboratory includes:

- DR 900 Colorimeter
- HQ40d Multi-Parameter Digital Meter
- Digital Titrator
- All required reagents for 12 critical parameters
- Hydraulic Fracturing Water Analysis Handbook
- Apparatus and accessories
- Convenient, rugged carrying cases

<b>2994000</b>	CEL Hydraulic Fracturing Water Analysis Laboratory
<b>2997100</b>	Reagent Set, CEL Hydraulic Fracturing Water Analysis Laboratory
<b>2527900</b>	Boron Reagent Set†

†Not included in kit.



*Rugged kit delivers simple, fast, on-site analysis in oil and gas applications, including source water, frac fluid, produced water, flowback water, water treatment, drilling fluids, and enhanced oil recovery.*

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*In the interest of improving and updating its equipment,*

*Hach Company reserves the right to alter specifications to equipment at any time.*

