

<p>9 18.998</p> <p>I</p> <p>INVESTIGATION</p>	<p>4 9.0122</p> <p>D</p> <p>DETECTION</p>	<p>5 10.811</p> <p>E</p> <p>EXPERIMENTATION</p>	<p>14 28.086</p> <p>N</p> <p>NOTIFICATION</p>
<p>20 40.078</p> <p>T</p> <p>TRANSITION</p>	<p>9 18.998</p> <p>I</p> <p>INFORMATION</p>		
<p>6 12.011</p> <p>F</p> <p>FORMULATION</p>	<p>9 18.998</p> <p>I</p> <p>INSPECTION</p>	<p>5 10.811</p> <p>E</p> <p>EVALUATION</p>	<p>4 9.0122</p> <p>D</p> <p>DEDICATION</p>

ON-SITE TESTING, ANALYSIS AND IDENTIFICATION
– SGS RAPID DEPLOYMENT KIT™

RAPID -SITE SAMPLING, ANALYSIS AND IDENTIFICATION

ACCESS TO FAST & RELIABLE FLUID COMPOSITIONS AND PHYSICAL PROPERTIES SAVES YOU TIME AND MONEY

Having fast access to reliable fluid compositions and physical properties saves you time and money. By understanding these properties early in the life of your well, financial and engineering decisions can be made quickly - based on the facts.

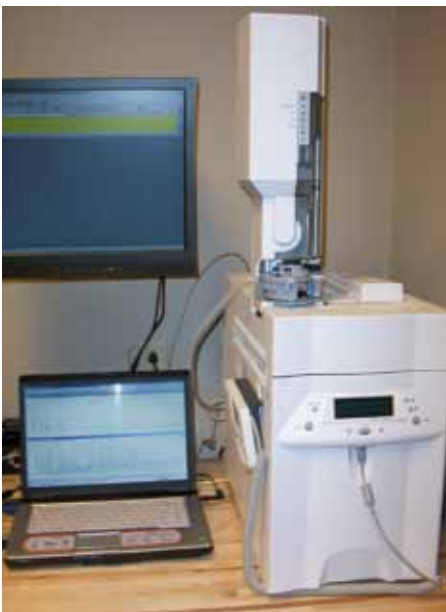
SGS Rapid Deployment Kit™ brings high-quality compositional analysis, production chemistry and physical properties to your wellsite, along with field sampling services by experienced and certified Field Chemists.

Rapid deployment by air freight to site for operation in a safe zone delivers the analytical service you need whenever and wherever you need it, with all the quality and reliability of fixed laboratory testing.



ABOUT RDK™

The SGS Rapid Deployment Kit™ provides live sample composition (water, gas and oil), trace contaminant, base oil contamination and physical properties measurement of the samples right at the well site. Building on SGS' expertise in laboratory analysis and using industry-standard methods and SGS patented technologies we provide a wide range of testing options for everything from formation brine samples to pipeline gas samples.



CUSTOMISABLE CONFIGURATION

The SGS RDK™ offers the following tests and analyses:

Field Sampling Services

- Conventional Subsurface Sampling
- Separator Sampling

Compositional Analyses

- GOR and GWR Measurements
- Live Sample Composition & Density
- Inert and Acid Gas Content (CO₂, H₂S, etc.)
- Shrinkage Tests
- Extended Gas Compositions by GC
- Oil Compositions to C36+ by GC



Production Chemistry

- S&W by ASTM Centrifuge Method
- Karl Fisher Water Content in Oil or Gas
- Oil Molecular Weight by Precision Cryette
- Density, Viscosity & Rheology
- Crude Salinity
- Brine Basic Properties (pH, Conductivity, TDS)
- Brine Composition by IC / Titration
- Brine Preservation Kit
- Sulfate Reducing Bacteria in Water
- Dewscope Gas Dewpoints
- Stain Tube Measurements (Drager)
- Mercaptans and Trace Sulfurs by GC-FPD
- Mercury in Gases or Liquids
- Sand Content in Produced Fluids
- H₂S in Gas, Oil and/or Brine



IN-FIELD EXPERTISE

To ensure that each and every test and analysis is performed to the highest standards the RDK™ arrives at your site accompanied by certified SGS Field Chemists. These experienced sampling technicians have all of the knowledge necessary to conduct reliable tests on-site and using the equipment that is provided as part of the RDK™. Each Field Chemist deployed is trained by SGS through a rigorous certification course proving their capabilities to deliver the high standard of service you require and each Chemist carries Offshore Safety, HazMat and H₂S certifications providing onsite testing whenever and wherever you need it.

THE BENEFITS

Immediate analysis

Using the SGS RDK™ means that samples can be collected and tested with only a very short-time delay from collection to analysis. Reactions between the transport container and the sample are much less likely.

Precision

Personnel are trained Chemists who consistently apply industry standard sampling and analysis methods to deliver high quality data. This provides you with added confidence when it comes to making decisions based on this information.

Flexibility

The analytical specification and location options are tailored to your project needs. For a one-site project you can have the RDK™ at the wellsite itself or, for multi-site projects, you can have it at your field base, providing analysis for each of the sites simultaneously.

Cost saving

Taking away the need for sample transportation not only reduces the timeframe and issues associated with time delay for the analysed samples, but it cuts costs too. Sample cylinder rental and storage fees, as well as sample shipping costs are all minimised through the on-site analysis that the SGS RDK™ provides.

Expert advice

Whatever phase of production your well is in, a thorough understanding of the critical factors relating to the fluids you produce is essential. Our experts, assisted by SGS RDK™, give you all the information you need to optimise production, enhance refining processes and ensure your wells keep producing without interruption.

WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. Recognised as the global benchmark for quality and integrity, we employ over 64 000 people and operate a network of more than 1 250 offices and laboratories around the world. We are constantly looking beyond customers' and society's expectations in order to deliver market leading services wherever they are needed.

We have a history of undertaking and successfully executing large-scale, complex international projects. With a presence in every single region around the globe, our people speak the language and understand the culture of the local market and operate globally in a consistent, reliable and effective manner.

We provide innovative services and solutions for every part of the oil, gas and chemicals industry. Our global network of offices and laboratories, alongside our dedicated team, allows us to respond to your needs, when and where they occur. Our reputation for independence, excellence and innovation has established us as the market leader in providing services that improve efficiency, reduce risk and deliver competitive advantage for you.

OPERATING REQUIREMENTS

RAPID DEPLOYMENT KIT (RDK™)

SPACE	<ul style="list-style-type: none"> Work space: 3658 mm x 610 mm x 914 mm (L x W x H) 12.0 ft x 2.0 ft x 3.0 ft <p>Bench worktop area depends upon equipment specification. Chemically resistant worktop recommended.</p>
TRANSPORT	<ul style="list-style-type: none"> Air or sea freight Mobilisation to site is approximately 2 weeks <p>Services to provide for continuous operation, 24 hours per day, 7 days per week.</p>
MAXIMUM GROSS WEIGHT	<ul style="list-style-type: none"> Max equipment weight: 1,500 kg (2,800 lbs) <p>Cumulative equipment weight dependant on equipment specification.</p>
UTILITIES	<ul style="list-style-type: none"> Power 2 phase AC, 110 V Non-hazardous fluids waste drainage <p>Services to provide for continuous operation, 24 hours per day, 7 days per week.</p>
ENVIRONMENT	<ul style="list-style-type: none"> AC powered equipment to be operated in safe-zone Equipment operating temperature is about 20°C <p>AC powered equipment to be operated in sheltered area of low humidity, low dust/fumes and controlled temperature.</p>
SAFETY	<ul style="list-style-type: none"> Storage facilities required for solvents/samples & cylinders Laboratory safety equipment to be provided onsite. <p>Fume cupboard, eyewash station, fire-extinguisher, fire and gas detection.</p>

TO LEARN HOW SGS CAN HELP YOU WITH FAST ON-SITE ANALYSES CONTACT OGC@SGS.COM OR VISIT WWW.SGS.COM/OGC

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