



## Service List

### Sample Preparation

Sample Registration

Water Washing & Clean Up

Routine Sample Preparation (Inventorying, Crushing, Splitting)

Clean-up Solvent Extraction

RockWash Cuttings (Washing, Drying, Digital Photographing, & Archiving per Sample/100g)

Filtration for Mud

Separation of HC (Centrifuge)

### Screening Analyses

Sample Hand-Picking for Fine Grains (<1mm)

Sample Hand-Picking for Coarse Grains (≥2mm)

Sample Contamination Removal

Routine Lithological Description

Detailed Lithological Description

Total Organic Carbon (TOC) Determination (LECO C230)

TOC Determination & Carbonate Analysis (LECO C230)

TOC Determination w/ Interpretive Report (LECO C230)

Total Sulfur (LECO C230)

Thermal Pyrolysis (Rock Eval 6 or SRA)

Rock-Eval Pyrolysis +TOC

Reservoir Pyrolysis (Three Temperature Step Heating Program)

Reservoir Pyrolysis (Five Temperature Step Heating Program)

API Gravity via Reservoir Pyrolysis

### Core Analyses

Bulk Density

Grain Density

Core Porosity

## Kerogen & Whole Rock Analyses

Kerogen Isolation

Microscopic Analysis of Kerogen Type\*

Vitrinite Reflectance\*

Kerogen Microscopy: Spore Color Index (CSI) and Thermal Alteration Index (TAI)\*

Kerogen Microscopy Package: Vitrinite Reflectance, Kerogen Type, and TAI\*

Pyrolysis/Gas Chromatography (PYGC) S1 only

Pyrolysis/Gas Chromatography (PYGC) S2 only\*\*

Pyrolysis/Gas Chromatography (PYGC) S1 & S2

Pyrolysis/GC/GCMS S1 only

Pyrolysis/GC/GCMS S2 only\*\*

Pyrolysis/GC/GCMS S1 & S2

Thermal Extraction GC (Rock or Soil)

Thermal Extraction GC/GC-MS (Light End Analysis for Rock or Soil)

Carbon Isotope: Kerogen\*

Carbon Isotope: Whole Rock or Soil

Carbon Isotopes: Carbonate

Oxygen Isotopes: Carbonate

Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Elemental Analysis - Carbon, Hydrogen, Nitrogen, Sulphur, & Oxygen (ICP-OES)

\* - Requires Kerogen Isolation; \*\* - Requires Solvent Cleaning; Preparatory Measures Included in Price

## Oil/Rock Extract Analyses

Hand-Picking for Extraction

Extraction (Quantitative) - Soxhlet

Extraction (Quantitative) - Accelerated

Extraction (Quantitative) - Accelerated, Closed-System (Dionex)

Color Dilution for Extracts

Whole Extract Gas Chromatography (GC)

API Gravity

High Resolution Whole Oil GC

Detailed C4-C7 Gas Chromatography

High Temperature Gas Chromatography (HTGC): Whole Oil

HTGC: Saturate Fraction

Liquid Chromatography by Column Chromatography

Complete Fractionation of SARA (MPLC)

Latroscan TLC/FID Analysis (Determination of SARA)

Whole Oil SARA (Requires Detailed C4-C7 Gas Chromatography, Price Included)

Saturate Gas Chromatography (Includes Compound ID)

Carbon Isotope: Per Extract Fraction
Carbon Isotope: Whole Oil
Hydrogen Isotope: Whole Oil
Special Sample Preparation/Separation for Biomarkers Analysis (GC-MS)
Molecular Sieve Preparation for GC-MS
Biomarkers: Saturates (GC-MS)
Biomarkers: Aromatics (GC-MS)
Biomarkers: Whole Oil (GC-MS)
High Resolution Biomarker Analysis (GC-MS-MS)
Diamondoid Analysis (GC-MS-MS)
Nickel and Vanadium Content
Sulfur Content
Asphaltene Content
Pour Point (°C)
Viscosity (cSt @ 25°C)
Wax Content
Flash Point
Gas Chromatography Blank Subtraction Analysis & Processing
Oil Reservoir Continuity OR Commingled Prod. Allocation (Whole Oil & Detailed C4-C7 GC) (Includes <b>Interpretation</b> )
Compound Specific Isotope Analysis (CSIA) (GC-IRMS)
Hexane Extracts via Total Scanning Fluorescence (TSF)
Integration and Comparison w/ Previous Results <b>Per Sample</b>
Mol % Calculation
<b>Gas Analysis</b>
Head Space Gas Analysis (C1-C5) w/ Non-HC (CO2, O2, N2)
Cuttings Gas Analysis (C1-C5) w/ Non-HC (CO2, O2, N2)
Occluded Gas Analysis
Compositional Gas Analysis for Formation Gas Sample: Gas Chromatography (GC)
Compositional Mud Gas Analysis for IsoTubes (GC)
High Resolution GC (C4-C10)
Carbon Isotope (GC-IRMS)*
Carbon Isotope for CO2*
Carbon Isotope (After Purge & Trap Enrichment)*
Hydrogen Isotope*
Integration & Comparison w/ Previous Results
* - Priced Per Constituent

### Kinetic Analyses

One-Run Kinetic Analysis (using/ Pyrolysis Run)  
Obtain Kinetic Files from Archived Pyrolysis Data  
Kinetic Analysis from Archived Pyrolysis Data  
Conversion of Existing Kinetic Data (Specified 'A' Factor)  
Obtain Separate Oil & Gas Kinetics from Existing One-Run Kinetics Data  
GeoModel Calculations (TR vs Temp) for Kinetic Results  
Traditional Kinetic Analysis on Kerogen or Whole Rock (Three Heating Rates)  
Compositional Kinetic Analysis

### Modeling

Data Collection, Review & Integration w/ Newly Generated Results  
Heat Flow Calculation & Generation of Heat Flow Map  
Calculation & Generation of Maturity Maps & Delineation of Kitchen Areas  
Quantitative Estimation of Generated/Expelled Hydrocarbons  
Delineation of Migration Pathways & HC Accumulation  
Basin Mod 1-D Modeling: Calibration Well: Full Report  
Basin Mod 1-D Modeling: Similar Additional Wells/Sites  
Basin Mod 1-D w/ Sensitivity Analysis  
BasinMod Risk  
Results Integration & Report Prep for Each Modeling Study

### Rent, Shipping & Field Work

Rental of 500cc Sample Cylinder Per Day  
IsoTubes: Per Box (25 IsoTubes)  
IsoTube: Manifold  
Isojar: Headspace Sample Container  
Field Installation of IsoTube Manifold in Logging Unit/Day\*  
Field Sampling of Gas and Oil/Condensate Samples per Day\*  
Transfer From Cylinder  
Shipping of Samples

\* - These Prices Do Not Include Travel and Accommodation Costs To Client

### Interpretation, Consulting and Report Copies

Interpretation & Report Preparation (Digital & Hard Copy - \$1,000 Minimum Charge)

Report Preparation (Digital & Hard Copy - NO Interpretation)

Presentation of the Report/Study Results (Remote)

Presentation of the Report/Study Results (In Person)\*

Advanced Reports & Integration w/ Previous Analyses

Expedited Turnaround Time

Provision of Subcontractor Personnel to SCS Premises for Geochemical Data Processing (Review/Day)

Subcontract SCS Personnel to Client Premises for Geochemical Data Processing/Interpretation\*

\* - Excludes Travel and Accommodation Costs To Client

[www.stratochem.com](http://www.stratochem.com)

Houston: +1 (314) 210 0907

Denver: +1 (720) 648 7850

Cairo: +20 22516 1075

[info@stratochemlabs.com](mailto:info@stratochemlabs.com)

USA Shipping Address: 15222 Summer Bounty Trail, Cypress, TX, USA 77429; ATTN: Brian Wall

Egypt Shipping Address: 23/D/5 Shoukry Abd El Halim St., Laselky, New Maadi, Cairo, Egypt; ATTN: Mahmoud Sallam