**Invitation to Tender for Oilfield Laboratory Services Related to Measurement of Physical Rock and Fluid Samples Obtained from Exploratory Wells drilled in Deepwater Mexico.**

Numerous physical rock and fluid samples will be acquired while drilling deep water Gulf of Mexico exploratory wells offshore Mexico. Rock samples will be predominantly drill cuttings or or small consolidated plug samples. Sedimentary rock samples from sand, shale, and carbonates will be acquired predominantly by rotary sidewall coring tool in wellbores, but percussions sidewall cores and full diameter conventional core samples may also be presented for various analyses. Similarly, representative formation fluid samples will be obtained from subsurface zones of interest capable of permeable flow. Fluid samples are expected to be mainly either brine from water bearing intervals or oil from accumulations of hydrocarbons and will be presented either at standard conditions or under high pressure in containment vessels certified for use.

Specified laboratory services in this invitation extend over a wide spectrum of geoscience, reservoir engineering, and petrophysical elements necessary for successful exploration and development. To facilitate participation and timely response from tendering parties, services are grouped into six categories. Successful candidates will be able to conduct some services in house while managing other categorical services within the Rock Analysis or Fluid Analysis group with a third party.

With respect to rock samples under a framework on analyses, three primary categories applicable to this tender are Routine Core Analysis for basic properties and petrographic description, Fluid Inclusions to identify presence, type, and age of microscopic hydrocarbons trapped inside recovered rock samples, and Biostratigraphy to determine age of formations and overlying strata.

Like Rock Analysis, the second major category of services for discovered hydrocarbons and related reservoir fluids collected from Exploration wells fall Fluid Analysis. Fluid PVT is one subcategory and encompasses an extensive list of sample measurements to describe reservoir fluid phase behavior under varying conditions, flow properties, and compositional analyses. Fluid PVT also covers contaminants and comprehensive brine properties. Geochemical analysis to describe isotopic age, origin, and composition of hydrocarbon samples is divided into two subgroups: Fluid Geochemical Analysis and Rock Geochemical Analysis.

Lastly, two additional groups of services are specified with qualifications to consider and provide rig site services. One service line pertains to rig site wireline fluid handling, testing, and transfer services as they are needed to check pressurized well fluid samples for various contaminants, report rudimentary fluid properties, and prepare samples for shipment to designated laboratory. The second and final optional category to participate in is onsite Biostratigraphic services. Very similar to Biostratigraphy services described above for laboratory setting, this line of service will be conducted from the rig site and must take into consideration real time operations and well site equipment.