

# **WARI 1802 – Alternative Cement Integrity Assessment Tool**

## **Purpose**

PTAC wishes to retain the services of a qualified research organization or consulting firm (the Contractor) with demonstrated experience in cased hole logging development and a strong understanding in fluid flow. Interested parties are invited to submit a proposal according to the specification provided herein.

## **Technology Background**

A knowledge gap that has been identified is the lack of a tool that can assess the integrity of the bond of alternative cements behind casing and or the effectiveness of permanent hydraulic isolation behind casing. The current cement bond log technology is adequate in showing the presence of cement, however, it has not been documented how this technology will react to alternative products used to create hydraulic isolation. This includes both chemical and mechanical alternatives that change the environment behind the casing. A new tool, enhanced data collection method or new assessment technology (collectively referred to as the “Tool”) that can identify the hydraulic isolation between the casing and the formation created by these

alternative cement products is needed for effective surface casing vent flow/gas migration source pathway identification, developing repair programs and also for identifying isolation issues at time of abandonment.

### **Project Scope**

In the first phase, PTAC will retain the Contractor to develop this new Tool in a laboratory (bench scale) setting, and to develop an execution plan for field-based study. The second phase of this project would be the execution of a field-based study. An interim report will be due after the laboratory development portion of this study is complete. A Final Report will be required after completion of the field study. It should be assumed that a test well will be supplied by an industry partner facilitated through PTAC members.

### **Deliverables**

- Develop an execution plan and engage PTAC for an industry sponsor for the field-based study
- Develop tool that will identify the bond integrity of alternative cement products
- Prepare and deliver Interim Report
- Plan and execute a field based study as phase 2
- Prepare and deliver the Final Report upon completion of phase 2
- Prepare and deliver a summary presentation to a PTAC committee

### **Qualifications**

The Contractor will have the following qualifications:

- At least 10 years in the design, operations, servicing or consulting for oilfield cased hole logging;
- Demonstrated experience with cased hole logging development;
- Demonstrated understanding of acoustic capacity;
- Demonstrated understanding of fluid flow;
- Demonstrated experience and skills at technology evaluation and report writing.

### **Contents of Proposals**

The requested proposal should contain a very short description of the PTAC project and scope of work, CV or statement of qualifications and short excerpts of reports written by the applicant. The proposal document, which should be approximately 5 pages in length, addressing the following elements must be delivered electronically or by mail to PTAC by the deadline stated above:

- Scope of work
- Deliverables
- Budget and execution schedules
- Personnel assigned to the project
- Qualifications (including cased hole logging/fluid flow knowledge and experience)
- Disclosure of co-funding agreements or partnerships
- Requested payment schedule, if any.

## **Schedule**

The final report and all deliverables must be completed by June 30, 2019.

## **Confidentiality**

The Contractor will be required to sign a confidentiality agreement related to the project. Disclosure of any project information will be at the discretion of PTAC. It is the intention of PTAC that key results and outcomes will eventually be made public.

## **RFP Schedule**

April 6, 2018	RFP issued
April 27, 2018	Deadline for submission to PTAC
May 8, 2018	Proposal selected by WARI.

## **Selection Process**

PTAC has formed a Steering Committee for this project composed of industry stakeholders with relevant expertise pertaining to cement integrity assessment. PTAC will facilitate Steering Committee proceedings but will not be a decision-maker.

All submitted proposals will be provided to the Steering Committee for review. The Steering Committee will determine if proposals meet the requirements herein and provide an overall ranking based on Contractor qualifications and on proposal quality. The Steering Committee will make the final decision. Once a selection of the best proposal according to the Steering Committee has been made, all submission

contacts will be notified by email of the regarding the outcome of their individual proposal. The project final report will be shared on the PTAC website upon completion of the project.

**Contact Information**

Proposals should be submitted online using the following form: <http://auprf.ptac.org/2018-letter-of-intent-step-2/>

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