



Encana Corporation Expression of Interest (EOI)

Supply of Fluids & Cementing Equipment & Services

BIDS Category: 0203, 0209, 0257, 0936

Reference: EOI DC19

Issue Date: July 3, 2018

Closing Date: July 17, 2018

NOTICE TO INTERESTED PARTIES: Encana wishes to advise that EOI DC19 hereby partially replaces Encana's EOI DC02 (previously issued by Encana on September 13, 2017 which closed on September 27, 2017) which has now been cancelled by Encana. Companies who have provided a formal submission in response to EOI DC02 are requested to contact the Encana representative specified in this EOI by email for further instructions regarding submission requirements for the work covered by EOI DC19. Encana also wishes to advise that it intends to issue separate EOIs to capture the work that was included in EOI DC02 but which has not been included in EOI DC19.

GENERAL

Encana Corporation (Encana) is the owner and operator of the Deep Panuke natural gas project in Nova Scotia's offshore. The project includes facilities required to produce natural gas from the Deep Panuke field, located approximately 175 kilometers offshore Nova Scotia. Natural gas from the Deep Panuke Development is processed offshore and transported, via subsea pipeline, to Goldboro, Nova Scotia for further transport to market via the Maritimes & Northeast Pipeline.

The Development includes the following major infrastructure (the "facilities"):

- Production Field Centre (PFC);
- Five (5) - subsea wells, trees, and protection structures;
- Infield flowlines and umbilicals;
- Gas export pipeline and onshore metering facility;

The Deep Panuke reservoir fluids contain H₂S and CO₂ which are removed from the fluid stream during processing on the PFC and disposed of into a dedicated subsea acid gas injection well. The sales ready product is exported from the PFC via an export pipeline.

Encana's strategy towards the decommissioning of the Deep Panuke facilities will include cost efficient solutions that minimize risk to personnel, provide the least impact on the environment, and utilize proven technology. It is currently Encana's plan that the suspension and decommissioning of the Deep Panuke Development will generally be completed as follows:

- Suspension of Production Operations;
- Decommissioning of the subsea and onshore facilities and PFC removal; and
- Well Abandonment and Final Field Survey.

Respondents are advised that the Work carried out on Deep Panuke shall comply fully with Canada-Nova Scotia Offshore Petroleum Board Regulations and all regulatory requirements. Respondents shall also be required to comply with the Canada Nova Scotia Offshore Petroleum Resources Accord Implementation Act including but not limited to the Benefits requirements as set out in Section 45.

Encana is committed to providing opportunities for Nova Scotian and Canadian companies through employment, procurement and contracting on an internationally competitive basis, with full and fair opportunity for Nova Scotians and Canadians where competitive on a best value basis, and first consideration to Nova Scotians. Pre-qualified companies will be required to complete a Canada-Nova



Scotia Benefits Questionnaire and demonstrate their commitment to and compliance with Encana's requirements regarding Canada-Nova Scotia Benefits, during the tender process.

Encana is a leading North American energy producer that is focused on growing its strong portfolio of diverse resource plays producing natural gas, oil and natural gas liquids. By partnering with employees, community organizations and other businesses, Encana contributes to the strength and sustainability of the communities where it operates. Encana common shares trade on the Toronto and New York stock exchanges under the symbol ECA. Further information on Encana Corporation is available on the company's website, www.encana.com. Further information on Deep Panuke is available at www.encana.com/deeppanuke

SCOPE OF WORK

The Work includes the abandonment of four (4) subsea sour gas production wells and one (1) subsea acid gas injection (AGI) well, across five (5) subsea well locations. The qualified company will be capable of fully designing, planning/executing and evaluating the Cementing & Drilling Fluids aspects of the wellbore abandonment. The Work will be conducted from a Harsh Environment Jack-Up, Mobile Offshore Drilling Unit (MODU) capable of working year-round in 45 meters of water at the Deep Panuke field location offshore Nova Scotia, Canada. The wellbores will be accessed with a high-pressure riser system attached to the horizontal subsea trees and tied back to a conventional surface BOP stack on the MODU.

Encana is seeking qualified companies interested in providing the following services;

- 1) Cementing equipment, including cement & additives, bridge plugs, cement retainers & cement heads;
- 2) Cementing services including cement design, onshore lab testing, cement pumping and pressure testing services;
- 3) Drilling fluids including completion brine & additives, contingency drilling fluids and fluid loss pills;
- 4) Drilling fluid services including inhibited fluid design, mixing, fluid testing & quality control services;
- 5) Swarf management equipment & services as contingency for section milling casing;
- 6) Provision of Storm Packers & Valves as contingency for well suspension;

The equipment must be compliant with NACE-MR-0175 for sour service with a minimum rated working pressure of 25 MPa. In addition, all equipment must be certified to work offshore Eastern Canada.

SCHEDULE FOR THE WORK

Encana is issuing this Expression of Interest to identify the availability of suitable companies, equipment and services to conduct the Work in the offshore Nova Scotia location commencing sometime between Q3 2019 to Q2 2020. The window for carrying out the Work is dependent on the availability of the MODU. Any decisions on specific timing for the Work will be made at a later date.

The pre-planning and engineering effort is expected to take up to ten (10) months prior to commencement of field operations. The total time required for the plugging and abandonment operations of all five (5) wells is expected to be approximately 120 days.

Encana will require Cementing & Drilling Fluids equipment to be on location in Halifax at least one month prior to the start-up of rig operations. Once the equipment is in the field, periodic NDT of pressurized equipment may be required, however, a visual inspection will be conducted at the end of operations for each well.

The operations on the MODU are expected to start any time after July 1, 2019 (exact time to be determined). As the availability of the MODU becomes better defined, Encana will communicate any changes to the scheduled start time on a monthly and/or bi-weekly basis.

Responses to this Expression of Interest must contain the following information:

- A: Confirmation of Respondent's previous North Atlantic harsh weather experience including references to previous (and relevant) projects similar to the Work. Information provided by Respondent should include but not be limited to the following:



- Project management, and engineering experience;
- Integrated wellbore project execution experience; and
- Available proven technologies and emerging technology potential.

- B: Confirmation of Respondent's equipment and personnel availability (identifying the time frame for which the equipment would be available for the Work), current location and present contract status of proposed equipment. Respondent should include the proposed structure of the services package to successfully accomplish the Work indicating all subcontracts and any preferred vendors.
- C: Details regarding the make-up of Respondent's early planning team complete with a detailed description of the core competencies of Respondent's nominated personnel. This should include details regarding Respondent's plan to integrate into Encana's Project team in Halifax, Nova Scotia.
- D: A duly completed Pre-Qualification Questionnaire.

GENERAL REQUIREMENTS

EOI respondents are required to have an implemented EH&S Management System and a registered Quality Management System (complete with a current certificate issued by a recognized third party that certifies that the Quality Management System meets the requirements of the ISO 9001 or equivalent). Respondents are also notified that the Work carried out on Deep Panuke shall comply fully with Canada-Nova Scotia Offshore Petroleum Board Regulations and all regulatory requirements.

Respondents are requested to provide a brief Company profile, contact details, managers and key personnel and a summary of related (and relevant) experience on past projects which are similar in scope including details of Respondent's Nova Scotia and Canadian capabilities.

Interested firms are requested to demonstrate their capabilities and experience via a formal response to this EOI and the **Prequalification Questionnaire**, which can be obtained from the email address provided below.

Encana will select qualified bidders using the respondents to this EOI as a guide. Any eventual list of Bidders will be posted on the Encana website and other industry websites such as the Maritimes Energy Association bulletin.

Encana is under no obligation to proceed with a Request for Proposal as a result of this Expressions of Interest. Only those respondents deemed acceptable by Encana will be invited to participate in the event Proposals are solicited. Encana also reserves the right to award more than a single contract resulting from a Request for Proposal.

Expressions of Interest must be received on or before **July 17, 2018, 2:00 PM Atlantic time**.

All inquiries and Expression of Interest must be clearly marked with the EOI reference number and should be directed to:

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