

To:
Attention:
Fax:
E-mail:

Subject: Cementing, Pumping & Acidizing Services of Risha Gas Field and Sarhan field.

Dear Sir,

The National Petroleum Company (NPC) of Jordan kindly invites your company to quote for Cementing, Pumping & acidizing Services in Risha Gas Field (RGF) and sarhan field, as per the attached proposed work program.

NPC is a public shareholding company organized and existing under the law of the Hashemite Kingdome of Jordan, registered at the Ministry of Industry and Trade No. 284 of 21 June 1995 and is concerned with exploration and exploitation of petroleum.

According to our expectation, we believe that your company would present suitable tools, equipment, and well-trained personnel capable of efficiently carrying out Cementing, Pumping & acidizing Services.

The RGF is located in the northeast part of Jordan 375 km from Amman.

The Sarhan Field is located in the southeast part of Jordan 260 km from Amman.

A field visit could be arranged in order to examine the nature and quantity of work, the drilling rig, the work conditions and any difficulties that may arise during the work performance.

Volume of work is consisting of the following:

For the first year:

Five shallow wells by contractor - Two jobs per well: 20" + 13 3/8" casing.

One well by Jerash rig from surface: 20" + 13 3/8" + 9 5/8" + 7" casing.

Re-entry of four wells by Jerash rig to complete the job – Two jobs per well: 9 5/8" + 7" casing.

Two wells in Sarhan field – Three Jobs per well: 13 3/8" + 9 5/8" + 7" casing.

The Risha static reservoir temperature at 2660m TVD is 300 degrees F.

Special Terms:

- Offers must be on monthly rental charges basis.



- Monthly charge is to cover the following:
 - o Rental of the following equipment:
 - a- 1 ea Cementing unit capable to perform the required jobs. Equipment to be at the following specifications: 10,000 psi min working pressure, 500 HHP max hydraulic horse power (two engines), twin triplex pumps, two positive charging pumps, with surge tank, 10 bbls min recirculating mixer, computer system able to measure density, pumping rate, cumulative volume and pumping pressure.
 - b- 1 ea 700 cuft cementing silo.
 - c- 1 ea 300 cuft min air compressor.
 - d- 1 ea 350 cuft min cutting bottle.
 - e- 1 ea batch mixer suitable for cement job.
 - f- 1 ea mixing tank suitable for perform cement job.
 - g- 1 ea 20" cement head BTC threads.
 - h- 1 ea 13 3/8" cement head BTC threads.
 - i- 1 ea 9 5/8" cement head BTC threads.
 - j- 1 ea 7" cement head BTC threads.
 - o Primary cementing jobs of 7" casing or liner in 8-1/2" hole and 4-1/2" liner in 5-7/8" hole per well.
 - o 5 cement plugs per well.
 - o One BOP pressure test per well
 - o One leak off test per well
 - o Cement lab tests for each cement job
- The basic cementing crew included in monthly charges to consist of:
 - o 1 ea cementing services supervisor.
 - o 2 ea helpers.
- Contractor has to provide the necessary iron chiksans, hoses, fitting, valves and required accessories from cementing truck to wellhead.
- Other pumping services to be executed with the same cementing unit to be quoted separately per case.
- The following Cementing and Stimulation chemicals to be quoted separately per unit:
 - o Cementing materials:
 - a- Cement class G
 - b- Silica flour
 - c- Defoamer
 - d- Dispersant
 - e- Low temperature retarder
 - f- High temperature retarder (350 degrees F)
 - g- Anti settling agent
 - o Stimulation materials:
 - a- High temperature corrosion inhibitor
 - b- Low temperature corrosion inhibitor



- c- Surfactant
- d- Chelating agent
- e- Intensifier (Ammonium Bi fluoride)

- **Closing Date: 15 working days from the date of this letter**
- **Offers must include the following:**
 - Technical proposed program.
 - Detailed specifications and quantities of recommended equipment and materials.
 - Detailed break down of prices for all equipment, materials, services and personnel and Mob-Demob.
 - Expected date of commencement and time schedule.
 - Estimated well cost and Material requirements per section.

Slurry ref.	Hole size	Depth
20" casing	26"	200 m
13-3/8" casing	17-1/2"	500 m
9-5/8" casing	12-1/4"	1100 m
7" casing	8-1/2"	2600 m

- **Contract duration:** Two calendar years subject to extension for one other year.
- ❖ **Volume of work:** Volume of work is consisting of six gas wells in RGF and two wells in sarhan field.
- ❖ **Note:** In the financial offer, please take into consideration that the non-residence companies have to pay 10 % of the total invoice amount as an income tax as per the Jordanian Income law.

Please contact NPC if you require any further information and explanation in all matters concerning the performance of the work.

Contact address:

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Kind Regards,

Director General

