CNLC Experiences in Sudan: from Zero to One

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.
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From Zero to One

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Mr. Alraiah Abd Algadir Adam
(HR&TC Manager)
As a leading wellbore technical services company, CNLC entered into Sudan market since 1997. In the last more than 19 years, CNLC was involved and witnessed the writing of a very much brilliant page for Sudan Oil & Gas sector. At the meantime, CNLC (Sudan) grows up from zero to one, and now we become a well-know and reputable company here in Sudan.
Part 1. Brief Introduction to CNLC

Part 2. Marketing Development

Part 3. Localization & contribution about Sudan Oil & Gas Sector
Part 1. Brief Introduction to CNLC

Re-Organization between CNLC and GWDC

LPEB (Founded in 1970)  
GWDC (Founded in 1993)

REORGANIZATION IN Feb, 2008

GWDC

JOIN IN Feb. 2009

CNLC (Founded in 1995)
Scope of Services

- Well Invention
- Drilling Completion
- Drilling Fluid
- LWD/MWD/DD
- Mud Logging
- Wireline Logging
- Coring
- Well Testing
- Reservoir Evaluation
- Cementing
- Drilling/Completion Services
- Scope
## Shared Resources

<table>
<thead>
<tr>
<th>Service</th>
<th>Number of Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilling/work over Rigs</td>
<td>630</td>
</tr>
<tr>
<td>Drilling Fluid</td>
<td>243</td>
</tr>
<tr>
<td>Cementing Units</td>
<td>50</td>
</tr>
<tr>
<td>Wire line Logging Units</td>
<td>148</td>
</tr>
<tr>
<td>Mud logging Unit</td>
<td>422</td>
</tr>
<tr>
<td>Well Test Crews</td>
<td>116</td>
</tr>
<tr>
<td>Acidizing &amp; Fracturing</td>
<td>15</td>
</tr>
<tr>
<td>Direction Drilling</td>
<td>120</td>
</tr>
</tbody>
</table>
Wireline Logging

Open hole Logging/ Cased Hole Logging / Perforation

LEAP-800

New Technology for Sudan

- ESP/Y-Tools (ESP BYPASS)
- PNN (Pulsed Neutron-Neutron)
- RLAC(Resistivity Log After Casing)
- HEPF(High Energy Perforation & Fracturing)
- MRIL-P (Magnetic Resonance Image Logging-Prime)
Mud Logging

Advantage/SDL-9000/PM/WELLLEAP

- Geology Mud logging
- Drilling Monitoring
- Pressure Evaluation
- Gas Detection & Analysis
- QFT/WELLAB/LEAP-NET Services
- GEOLAB Analysis
Well Testing

Slicikline service /MFE, APR-tools/Separator surface testing tools

New Technology for Sudan

- Artificial Lifting
- Multi-Phase Flow Meter (MPFM)
- Multi Packer & Sliding Sleeve Completion
- Sand Control & ICD (Inflow control Device)
- Coiled Tubing Services (CTU)
Geoscience Data Consulting Service

- Petro-physical Study
- Geological & geophysical Study
- Sequence Stratigraphic Study
- Consultancy Services
- Remaining Oil study (EPI-Electrical Potential Image)

- LQC (Log Quality Control)
- Data processing & Interpretation
QHSSE Management

HSE Strategic Objectives

- No Injuries
- No Accidents
- No Pollution
Recognitions from Clients

To Whom It May Concern,

Please be kindly notified that a high quality mud compound (S.A.) was provided by CNLC on the exploration project requested by Repsol.

We appreciate the professionalism exhibited by the personnel and the seamless manner in which the service was provided. The staff was always prompt and responsive, ensuring a smooth operation.

Best Regards,

Claudio Fernandez
Manager, Repsol-YPF, REMSA
Libya
Global Presence

336 crews in 32 Countries:

WIRELINE LOGGING: 108 CREWS
MUDLOG UNIT: 120 CREWS
WELL TEST: 108 CREWS
GEOSCIENCE: 17 Stations

CNLC@Africa:
Sudan, South Sudan, Chad, Niger, Algeria, Kenya, Libya, Tunisia
Clients List
CNLC Clients

(Since 1997):

GNPOC (1/2/4)

Petro Energy (6)

STAROIL (17)

GSPOC(12A)

Sudapak (9/11)

WNPOC (8)

RPOC (25)

APOC(C)
Part 3. Localization & Contribution about Sudan

CNLC On-Job Training
CNLC In-house Training in Sudan
CNLC Overseas Training

CNLC Training in China

CNLC Training In Norway
# CNLC Sudan Localization

<table>
<thead>
<tr>
<th>Division</th>
<th>Numbers of Sudan Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireline Logging</td>
<td>66</td>
</tr>
<tr>
<td>Mud Logging</td>
<td>59</td>
</tr>
<tr>
<td>Well Testing</td>
<td>85</td>
</tr>
<tr>
<td>Base</td>
<td>20</td>
</tr>
<tr>
<td>Khartoum Office (including GS)</td>
<td>35</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>265</strong></td>
</tr>
<tr>
<td><strong>Localization Ratio</strong></td>
<td><strong>83%</strong></td>
</tr>
</tbody>
</table>
Localization Quality Improvement Program

Mr. Mohamed
Well Testing
Deputy Manager
11 Years in CNLC

Mr. Adam
Mud Logging
Deputy Manager
11 Years in CNLC

10 Years Excellent Staff Award Ceremony
CNLC Contribution to Sudan Oil & Gas Sector

- Provided training for OEPA & oil companies since 2003 covering 570 trainees.
- 62 CNLC staff joined in GNPOC, PDOC, Petro Energy, WNPOC, Sudapak, Sudapet, & OEPA.
Wherever we go
Whatever we do
Whoever we serve
It is perfection we pursue

Thank You!