Rotary Drilling Co. Ltd.
Presentation
Geographical distribution of services

- **Hungary**
  - Drilling rigs
    - R-69, Lyb-42, Lyb-37
  - Workover rigs
  - Well services
    - coiled tubing, nitrogen, slickline, mud plant, tubular handling, mud engineering

- **Albania**
  - Cementing and stimulation services

- **Iraq – Kurdistan Region**
  - 2 heavy drilling rigs
    - R-67, R-68
HSE performance in line with industry benchmark

Rotary own + Subcontractors

*Statistics are counted according to IADC.
HSE performance in line with industry benchmark

Rotary own + Subcontractors

*Statistics are counted according to IADC.
HSE performance in line with industry benchmark

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HSE performance in line with industry benchmark

*Statistics are counted according to IADC.
NPT is the most important KPI of the drilling contractor activities. The related downtime data always collected and analyzed to determine the non-productive time of the Company. The chart above showing our performance in the last six years.
### Drilling Rigs

<table>
<thead>
<tr>
<th>No.</th>
<th>Rig name</th>
<th>Year of construction</th>
<th>Last Overhaul</th>
<th>Drawwork Rating</th>
<th>Hookload Capacity</th>
<th>Current location / Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R-67</td>
<td>2007</td>
<td>2015</td>
<td>2000 HP</td>
<td>450 mt</td>
<td>Iraq / Idle</td>
</tr>
<tr>
<td>2</td>
<td>R-68</td>
<td>2007</td>
<td>2015</td>
<td>1500 HP</td>
<td>400 mt</td>
<td>Iraq / Idle</td>
</tr>
<tr>
<td>3</td>
<td>R-69</td>
<td>2015</td>
<td>New</td>
<td>1000 HP</td>
<td>229 mt</td>
<td>Hungary / MOL</td>
</tr>
<tr>
<td>4</td>
<td>Lyb-37</td>
<td>1979</td>
<td>2011</td>
<td>750 HP</td>
<td>160 mt</td>
<td>Hungary / Idle</td>
</tr>
<tr>
<td>5</td>
<td>Lyb-42</td>
<td>1988</td>
<td>2014</td>
<td>750 HP</td>
<td>160 mt</td>
<td>Hungary / MOL</td>
</tr>
</tbody>
</table>

### Workover Rigs

<table>
<thead>
<tr>
<th>No.</th>
<th>Rig name</th>
<th>Year of construction</th>
<th>Last Overhaul</th>
<th>Drawwork Rating</th>
<th>Hookload Capacity</th>
<th>Current location / Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lyb-38</td>
<td>1983</td>
<td>2010</td>
<td>375 HP</td>
<td>96 mt</td>
<td>Hungary / Idle</td>
</tr>
<tr>
<td>2</td>
<td>Lyb-39</td>
<td>1983</td>
<td>2012</td>
<td>375 HP</td>
<td>96 mt</td>
<td>Hungary / MOL</td>
</tr>
<tr>
<td>3</td>
<td>Lyb-40</td>
<td>1977</td>
<td>2008</td>
<td>375 HP</td>
<td>96 mt</td>
<td>Hungary / Idle</td>
</tr>
<tr>
<td>4</td>
<td>Lyb-43</td>
<td>1986</td>
<td>2013</td>
<td>375 HP</td>
<td>122 mt</td>
<td>Hungary / MOL</td>
</tr>
<tr>
<td>5</td>
<td>KK-10</td>
<td>1977</td>
<td>2012</td>
<td>375 HP</td>
<td>96 mt</td>
<td>Hungary / MOL</td>
</tr>
<tr>
<td>6</td>
<td>KK-23/24</td>
<td>1990</td>
<td>2004</td>
<td>300 HP</td>
<td>54 mt</td>
<td>Hungary / Idle</td>
</tr>
</tbody>
</table>
Manufactured in 2007
Major overhaul finished in March of 2015
Type: ZJ 70 DB
CE certificate
Performance: 450 tons, 2000 HP
with TD, BOP 13 5/8"x10M, DPs 3 1/2" and 5", BOP control unit
340 U.S.gal, choke manifold 4 1/16"x10M
Rated drilling depth: 6000 m with 5" DP
Camp: (120 person)

<table>
<thead>
<tr>
<th>Substructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>• DZ 450/10.5 Height: 10.5 m (34.5 ft)</td>
</tr>
<tr>
<td>• Height under rotary beams: 8.9 m (26.24 ft)</td>
</tr>
<tr>
<td>• Max load of rotary beam: 454 mt (500 sh ton)</td>
</tr>
<tr>
<td>• Max load of Set Back: 224 mt (247 sh ton)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mast</th>
</tr>
</thead>
<tbody>
<tr>
<td>• JJ450/45-K, 45 m (147.6 ft) 5 section</td>
</tr>
<tr>
<td>• Capacity: 454 mt (500 sh ton)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crown Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>• TC-450</td>
</tr>
<tr>
<td>• No of sheaves: 6+1</td>
</tr>
<tr>
<td>• Grooved: 1 1/2&quot;</td>
</tr>
<tr>
<td>• Capacity: 454 mt (500 sh ton)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Travelling Block and Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>• YC-450 traveling block + DG450 Hook</td>
</tr>
<tr>
<td>• No of sheaves: 6</td>
</tr>
<tr>
<td>• Capacity: 454 mt (500 sh ton)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Swivel</th>
</tr>
</thead>
<tbody>
<tr>
<td>• SL 450-5 with integrated kelly spinner</td>
</tr>
<tr>
<td>• Capacity: 454 mt (500 sh ton)</td>
</tr>
<tr>
<td>• Max working pressure: 350 bar (5000 psi)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Top Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>• AK MH PTD-500-AC</td>
</tr>
<tr>
<td>• Capacity: 454 mt (500 sh ton)</td>
</tr>
<tr>
<td>• Power: 800 KW (1088 HP) AC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drawworks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• JC 70 DB (2000 HP) two pcs of YJ13A4, 1088 HP each</td>
</tr>
<tr>
<td>• Brake: electrical control hydraulic disc brake</td>
</tr>
<tr>
<td>• Automatic driller : K187 one pc 50 HP AC motor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rotary Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ZP 375, 37 1/2&quot;</td>
</tr>
<tr>
<td>• Capacity: 454 mt</td>
</tr>
<tr>
<td>• Power: 600 KW (816 HP) AC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Diesel Engines: 4 x MTU/DDC 4000 G23, 1420 kW</td>
</tr>
<tr>
<td>• Generators:</td>
</tr>
<tr>
<td>4x Leroy Somer 2100 kVA / 600 V 1344 KW,</td>
</tr>
<tr>
<td>Cat C-15 genset 450 kVA / 400 V 360 KW,</td>
</tr>
<tr>
<td>Olympian Gep-150 150 kVA / 400 V 100 KW</td>
</tr>
<tr>
<td>• Total output power: 5836 kW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conversion System</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Siemens VFD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mud System</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Mud Pumps: 3 x F1600 triplex, each pump powered by one electric motor YJ 13A6 type, 1600 HP each</td>
</tr>
<tr>
<td>• Mud Tanks: 3 (Active mud tanks) + 2 (Reserve mud tanks) + Trip Tank + Sand Trap, Total capacity: 400 m3</td>
</tr>
<tr>
<td>• Water Tanks: 2, Total capacity: 80 m3</td>
</tr>
</tbody>
</table>
Drilling fleet

R-68

Technical content

Manufactured in 2007
Major overhaul finished in August of 2015
Type: ZJ 50 DB
CE certificate
Performance: 408 tons, 1500 HP with TD, BOP 13 5/8” x 10M, DPs 3 1/2” and 5”, BOP control unit 340 U.S. gal, choke manifold 4 1/16” x 10M
Rated drilling depth: 5000 m with 5” DP
Camp: (120 person)

Substructure
*Height: 9 m (29.5 ft)
*Height under rotary beams: 7.6 m (25 ft)
*Set Back: 234 mt

Mast
*Pyramid TC315(DSL) 44.8 m (147 ft)
*Capacity: 408 mt

Crown Block
*No of sheaves: 6+1
*Grooved: 1 3/8”
*Capacity: 408 mt

Travelling Block and Hook
*McKissick TB500
*Capacity: 450 mt

Swivel
*SL-450
*Capacity: 454 mt

Top Drive
*PTD-500-AC/1M-800
*Capacity: 454 mt

Drawworks
*JC 50 DB (1500 HP) two pcs of YJ23, 816 HP (600 kW) each

Rotary Table
*ZP-375, 37 1/2”
*Capacity: 585 mt

Power Plant
*Diesel Engines: 4 x Cat 3512B
*Generators:
  1 x LS 2000 (1400 kW),
  3 x CAT SR4 (3x 1200 kW),
**Total output power:** 5000 kW
*Emergency generator: C-15 (Cat genset)

Conversion System
*Tianshui Electric VFD

Mud System
*Mud Pumps: 3 x F1300 triplex, each pump powered by one electric motor YJ 31 type, 1350 HP each
*Mud Tanks: 3 (Active mud tanks) + 2 (Reserve mud tanks) + Trip Tank + Sand Trap, Total capacity: 400 m3
*Water Tanks: 2, Total capacity: 80 m3
Drilling fleet

R-69

Technical content

Manufactured in 2015
Type: ZJ 40
CE certificate
Performance: 229 tons, 1000 HP
with BOP 13 5/8" x 5M, DPs 3 1/2" and 5", BOP control unit 340 U.S.gal, choke manifold 3 1/16" x 5M
Rated drilling depth: 3500 m with 5" DP

Substructure
• Height: 6 m (19.7 ft)
• Height under rotary beams: 5 m (16.4 ft)
• Set Back: 137 mt

Mast
• Two Section, front open JJ225/38 38 m (125 ft)
• Capacity: 229 mt

Crown Block
• No of sheaves: 5+1
• Grooved: 1 1/4"
• Capacity: 229 mt

Travelling Block and Hook
• YG 225
• Capacity: 229 mt

Swivel
• SL-225
• Capacity: 229 mt

Drawworks
• JC 28/11F (1000 HP)

Rotary Table
• ZP-275, 27 1/2"
• Capacity: 280 mt

Power Plant
• Diesel Engines: 2 x Cat C-18 (2x 447 kW),
• Generators:
  2 x LS 2000 (2x455 kVA),
  2 x CAT C-18 (2x 447 kW),
• Pump Engines: 2x CAT-3512 (2x1200kW)
Total output power: 4188 kW

Mud System
• Mud Pumps: 2 x Bomco 1000 triplex,
• Mud Tanks: 4 (Active mud tanks) + 1 (Reserve mud tank) + Trip Tank + Sand Trap, Total capacity: 180 m3
• Nested Water Tank: Total capacity: 100 m3
Lyb-37

Technical content

Manufactured in 1979, last overhaul in April 2011
TÜV certificate (CE conform)
Type: DIR-806
Performance: 162.4 tons, 750 HP
with BOP 11” x 5M, DPs 3 1/2” and 5”,
BOP control unit 220 U.S.gal, choke manifold 3 1/8” x 5M

Substructure
- Height: 4.45 m (14.8 ft)
- Height under rotary beams: 3.65 m (12.1 ft)
- Set Back: 120 mt

Mast
- IDECO-SBS KM 112-358 AGH, 34 m (112 ft)
- Capacity: 160 mt

Crown Block
- No of sheaves: 6
- Grooved: 1 1/8”
- Capacity: 165 mt

Travelling Block and Hook
- IDECO shorty UTB-160-5-30
- Capacity: 160 mt

Swivel
- IDECO TL-200
  • Capacity: 181 mt

Drawworks
- IDECO H-1000, 700 HP

Rotary Table
- IDECO 205, 20 1/2”
  • Capacity: 160 mt

Power Plant
- Diesel Engines: 2 x CAT 3406 B DITA
  • Capacity: 480 HP each

Mud System
- 2 x PZ-8 triplex
- Mud Tanks: 4 x 30 m3
- Water tanks: 2 x 43 m3
**Lyb-42**

**Technical content**

Manufactured in 1988, last overhaul in April 2014
TÜV certificate (CE conform)
Type: DIR-806
Performance: 162.4 tons, 750 HP
with BOP 11” x 5M, DPs 3 1/2” and 5”.
BOP control unit 220 U.S.gal, choke manifold 3 1/8” x 5M

**Substructure**
- Height: 4.45 m (14.8 ft)
- Height under rotary beams: 3.65 m (12.1 ft)
- Set Back: 120 mt

**Mast**
- IDECO-SBS KM 112-358 AGH, 34 m (112 ft)
- Capacity: 160 mt

**Crown Block**
- No of sheaves: 6
- Grooved: 1 1/8”
- Capacity: 165 mt

**Travelling Block and Hook**
- IDECO shorty UTB-160-5-30
- Capacity: 160 mt

**Swivel**
- IDECO TL-200
- Capacity: 181 mt

**Drawworks**
- IDECO H-1000, 700 HP

**Rotary Table**
- IDECO 205, 20 1/2”
- Capacity: 160 mt

**Power Plant**
- Diesel Engines: 2 x CAT 3406 B DITA
  - Capacity: 480 HP each

**Mud System**
- 2 x RGF-1000 triplex, Powered by D3512 CAT
  - Mud Tanks: 4 x 30 m3
  - Water tanks: 2 x 43 m3
## Lyb-43

### Technical content

<table>
<thead>
<tr>
<th>Substructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height: 4.6 m (15.09 ft)</td>
<td></td>
</tr>
<tr>
<td>Height under rotary beams: 4 m (13.12 ft)</td>
<td></td>
</tr>
<tr>
<td>Set Back: 80 mt</td>
<td></td>
</tr>
</tbody>
</table>

### Mast

| IDECO-SBS KM-111-268 GH, 33.8 m (110.9 ft) | |
| Capacity: 121.6 mt | |

### Crown Block

| No of sheaves: 5 | |
| Grooved: 1" | |
| Capacity: 121.6 mt | |

### Travelling Block and Hook

| YG-150 | |
| Capacity: 150 mt | |

### Swivel

| IDECO TL-200 | |
| Capacity: 181 mt | |

### Drawworks

| H 37 ED IDECO, 375 HP | |

### Rotary Table

| LR-175, 17 1/2" | |
| Capacity: 160 mt | |

### Power Plant

| Diesel Engines: 1 x CAT 3406 DITA | |
| Capacity: 380 HP | |

### Mud System

| 1 x RGF-500 powered by 3412 CAT | |
| Mud Tanks: Brine mixing tank 3 x 30 m3 | |
| Water tanks: 1 x 43 m3 | |
## Workover fleet

### Lyb-38

#### Technical content

Manufactured in 1983, last overhaul in April 2010
TÜV certificate (CE conform)
Type: DIR-5506
Performance: 95 tons, 450 HP
with BOP 7 1/16” x 5M, DPs 2 7/8”.
BOP control unit 60 U.S.gal, choke manifold 2 1/16” x 5M

<table>
<thead>
<tr>
<th>Substructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>3.8 m (12.5 ft)</td>
</tr>
<tr>
<td>Height under rotary beams</td>
<td>3.2 m (10.61 ft)</td>
</tr>
<tr>
<td>Set Back</td>
<td>95 mt</td>
</tr>
</tbody>
</table>

| Mast                       | IDECO-SBS KM 103-212 GH, 31.5 m (103 ft) |
|                           | Capacity: 102.4 mt                        |

| Crown Block                | No of sheaves: 5                           |
|                           | Grooved: 1”                                |
|                           | Capacity: 120 mt                           |

| Travelling Block and Hook  | IDECO shorty UTB-110-3-24                  |
|                           | Capacity: 110 mt                           |

| Swivel                    | IDECO TL-120                                |
|                           | Capacity: 109 mt                            |

| Drawworks                 | H 37 ED IDECO 1”, 375 HP                    |

| Rotary Table              | LR-175, 17 1/2”                            |
|                           | Capacity: 95 mt                            |

| Power Plant               | Diesel Engines: 1 x CAT 3406 DITA           |
|                           | Capacity: 380 HP                           |

| Mud System                | 1 x GD PAH-275 triplex, Powered by 3408 CAT |
|                           | Mud Tanks: Brine mixing tank 3 x 35 m3      |
|                           | Water tanks: 1 x 43 m3                      |
## Workover fleet

### Lyb-39

### Technical content

| Manufactured in 1983, last overhaul in January 2012  
| TÜV certificate (CE conform)  
| Type: DIR-5506  
| Performance: 95 tons, 450 HP  
| with BOP 7 1/16" x 5M, DPs 2 7/8",  
| BOP control unit 44 U.S.gal, choke manifold 2 1/16" x 5M |

### Substructure
- Height: 3.8 m (12.5 ft)
- Height under rotary beams: 3.2 m (10.61 ft)
- Set Back: 95 mt

### Mast
- IDECO-SBS KM 103-212 GH, 31.5 m (103 ft)
- Capacity: 96.2 mt

### Crown Block
- No of sheaves: 5
- Grooved: 1"
- Capacity: 120 mt

### Travelling Block and Hook
- IDECO shorty UTB-110-3-24
- Capacity: 110 mt

### Swivel
- IDECO TL-120
- Capacity: 109 mt

### Drawworks
- H 37 ED IDECO 1", 375 HP

### Rotary Table
- LR-175, 17 1/2"
- Capacity: 95 mt

### Power Plant
- Diesel Engines: 1 x CAT 3406 DITA
- Capacity: 380 HP

### Mud System
- 1 x GD PAH-275 triplex, Powered by 3408 CAT
- Mud Tanks: Brine mixing tank 3 x 36 m3
- Water tanks: 1 x 43 m3
Lyb-40

Technical content

Manufactured in 1977, last overhaul in April 2008
TÜV certificate (CE conform)
Type: DIR-5506
Performance: 95 tons, 450 HP
with BOP 7 1/16" x 10M, DPs 3 1/2",
BOP control unit 44 U.S.gal, choke manifold 2 1/16" x 5M

Substructure
- Height: 3.8 m (12.5 ft)
- Height under rotary beams: 3.2 m (10.61 ft)
- Set Back: 95 mt

Mast
- IDECO-SBS KM 103-212 GH, 31.5 m (103 ft)
- Capacity: 96.2 mt

Crown Block
- No of sheaves: 5
- Grooved: 1"
- Capacity: 120 mt

Travelling Block and Hook
- IDECO shorty UTB-110-3-24
- Capacity: 110 mt

Swivel
- IDECO TL-120
- Capacity: 109 mt

Drawworks
- H 37 ED IDECO 1", 375 HP

Rotary Table
- LR-175, 17 1/2"
- Capacity: 95 mt

Power Plant
- Diesel Engines: 1 x CAT 3406 DITA
- Capacity: 380 HP

Mud System
- 1 x GD PAH-275 triplex, Powered by 3408 CAT
- Mud Tanks: Brine mixing tank 3 x 36 m3
- Water tanks: 1 x 43 m3

Rotary Drill Co.
Workover fleet

KK-10

Technical content

Manufactured in 1977, last overhaul in December 2012
TÜV certificate (CE conform)
Type: DIR-5506
Performance: 95 tons, 450 HP
with BOP 7 1/16” x 5M, DPs 2 7/8”,
BOP control unit 80 U.S.gal, choke manifold 2 1/16” x 5M

Substructure
- Height: 3.8 m (12.5 ft)
- Height under rotary beams: 3.2 m (10.61 ft)
- Set Back: 95 mt

Mast
- IDECO-SBS KM 103-212 GH, 31.5 m (103 ft)
- Capacity: 96.2 mt

Crown Block
- No of sheaves: 5
- Grooved: 1”
- Capacity: 120 mt

Travelling Block and Hook
- IDECO shorty UTB-110-3-24
- Capacity: 110 mt

Swivel
- IDECO TL-120
- Capacity: 109 mt

Drawworks
- H 37 ED IDECO 1”, 375 HP

Rotary Table
- LR-175, 17 1/2”
- Capacity: 95 mt

Power Plant
- Diesel Engines: 1 x CAT 3406 DITA
  Capacity: 380 HP

Mud System
- 1 x GD PAH-275 triplex, Powered by 3408 CAT
- Mud Tanks: Brine mixing tank 2 x 36 m3
- Water tanks: 1 x 43 m3
Workover fleet

**KK-23/24**

**Technical content**

Manufactured in 1990, last overhaul in November 2004 (KK-23)
TÜV certificate (CE conform)
Type: DIR-110
Performance: 75 tons, 275 HP

**Substructure**
- Height: 3.8 m (12.5 ft)
- Height under rotary beams: 3 m (9.9 ft)
- Set Back: 50 mt

**Mast**
- IDECO-SBS KM 90-120 GHA, 27 m (88.5 ft)
- Capacity: 75 mt

**Crown Block**
- No of sheaves: 4
- Grooved: 1"
- Capacity: 75 mt

**Travelling Block and Hook**
- IDECO UTB 75-2-24
- Capacity: 50 mt

**Swivel**
- IDECO TL-120
- Capacity: 109 mt

**Drawworks**
- IDECO –SBS H35-CK, 303 HP

**Rotary Table**
- LR-175, 17 1/2"
- Capacity: 80 mt

**Power Plant**
- Diesel Engines: 1 x CAT 3306 DITA
  - Capacity: 380 HP

**Mud System**
- 1 x GD PAH-275 triplex, Powered by 3408 CAT
- Mud Tanks: Brine mixing tank 2 x 20 m3
- Water tanks: 1 x 43 m3 + 1 x 22 m3

KK-24 is not equipped with substructure, rotary table and mud system.
## Service fleet

### Slickline Services

#### Technical content

<table>
<thead>
<tr>
<th>SL Unit</th>
<th>Single Drum Truck Mounted Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured in 1989</td>
<td></td>
</tr>
<tr>
<td>TÜV certificate (CE conform)</td>
<td></td>
</tr>
<tr>
<td>Type: AKER MARTIME 678 S</td>
<td></td>
</tr>
<tr>
<td>C/W: Tatra engine 208HP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SL Unit</th>
<th>Double Drum Truck Mounted Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured in 1991</td>
<td></td>
</tr>
<tr>
<td>TÜV certificate (CE conform)</td>
<td></td>
</tr>
<tr>
<td>Type: CAMCO HD1+1</td>
<td></td>
</tr>
<tr>
<td>C/W: Lister engine 105HP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SL Unit</th>
<th>Single Drum Truck Mounted Unit (non-operable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured in 1988</td>
<td></td>
</tr>
<tr>
<td>TÜV certificate (CE conform)</td>
<td></td>
</tr>
<tr>
<td>Type: CAMCO HD1</td>
<td></td>
</tr>
<tr>
<td>C/W: Lister engine 68HP</td>
<td></td>
</tr>
</tbody>
</table>
Coiled Tubing Services

Technical content

- **CT Unit**
  - Truck manufactured in 1981 and the superstructure in 1991
  - TÜV certificate (CE conform)
  - Type: Truck Mounted Rebound Model 1103
  - C/W: Detroit engine, Tatra engine
  - Power: 230 HP
  - Reel capacity: 4300 m/1.25” and 3500 m/1.5” Coiled Tubing
  - Injector Head Pull capacity: 1.25”-1.5”/40,000 lbs

  **2003** - Upgrade with new RT-40 Injector Head and Reel for 1.5” OD pipe handling

  **2005** - Upgrade with MEDCO CT Monitoring and Modeling Systems
Service fleet

Tubular Handling Services

Technical content

- **Hydraulic Power Tong**
  - Manufactured in 1993 (Weatherford)
  - Type: Model 16-26
  - C/W: Power Unit 6 W
  - up to 13-3/8” / 25 000 lbs*ft

- **Hydraulic Power Tong**
  - Manufactured in 1982 (Weatherford)
  - Type: Model 16-26
  - C/W: Power Unit 6 W
  - up to 13-3/8” / 25 000 lbs*ft

- **Hydraulic Power Tong**
  - Manufactured in 1993 (Weatherford)
  - Type: Model 5,5-15
  - C/W: Power Unit 6 W
  - up to 5-1/2” / 15 000 lbs*ft

- **Hydraulic Power Tong**
  - Manufactured in 2008 (Weatherford)
  - Type: Model 7,62-30
  - C/W: Power Unit 6 W
  - up to 7-5/8” / 30 000 lbs*ft

- **Bucking Unit**
  - Manufactured in 2001 (Weatherford)
  - Type: CAM 37,5
  - C/W: Electric Power pack
  - 37 500 Nm

- **JAM LV-2 Torq Monitoring/Control System** (2 pcs)
**Nitrogen Services**

<table>
<thead>
<tr>
<th>Technical content</th>
</tr>
</thead>
<tbody>
<tr>
<td>• <strong>Nitrogen Unit</strong> – Truck Mounted</td>
</tr>
<tr>
<td>Manufactured in 1989</td>
</tr>
<tr>
<td>TÜV certificate (CE conform)</td>
</tr>
<tr>
<td>Type: NOWSCO C-520 NPT 1200</td>
</tr>
<tr>
<td>C/W: 1 Cummins engine + 1 Deutz engine</td>
</tr>
<tr>
<td>Power: 350 HP</td>
</tr>
<tr>
<td><strong>2008</strong> - overhaul for Truck Engine and Transmission system</td>
</tr>
</tbody>
</table>
Mud Plant

Technical content

- Built in 2008
- 2000 m$^3$ nominal fluid storing capacity
- 17 pcs vertical, cylindrical tank
- Mud treating house, mixing tanks and solid control equipment
- Mud Laboratory
- Chemical warehouse 540 m$^2$
- Load and offload point for transport vehicles
- 6 pcs trailer truck 25 m$^3$ tank capacity
Cementing and Stimulation Services

Technical content

- **Slurrymaster cementing units** (2 pcs)
  Manufactured in 1981 (reconstructed 2011);
  2 Detroit Engines 6V92T,
  2 Allison Transmissions CLT 754;
  2 pumps Western Roughrider 500 bar triplex
  Trailer-mounted construction

- **Acidizing unit**
  Manufactured in 1986
  1 Detroit Engine 6V92T,
  1 Allison Transmission CLT 754;
  1 pump Western Roughrider 500 bar triplex
  Truck-mounted construction
Service fleet

Cementing and Stimulation Services

Technical content

- **Batch mixers** (4 pcs)
  Manufactured in 2009-2010-2011-2013;
  2 Mission centrifugal pumps 3x4 on each,
  2 pcs 50 bbl tanks on each,
  Skid-mounted construction

- **Dual Skid**
  Manufactured in 1982 (reconstructed 2011);
  2 Detroit Engines 6V92T,
  2 Allison Transmissions CLT 754;
  2 pumps Western Roughrider 500 bar triplex;
  Dual Skid has been mounted onto a rented trailer in 2011.