

## RIG SERVICES



### Transforming rigs to deliver the drilling edge.

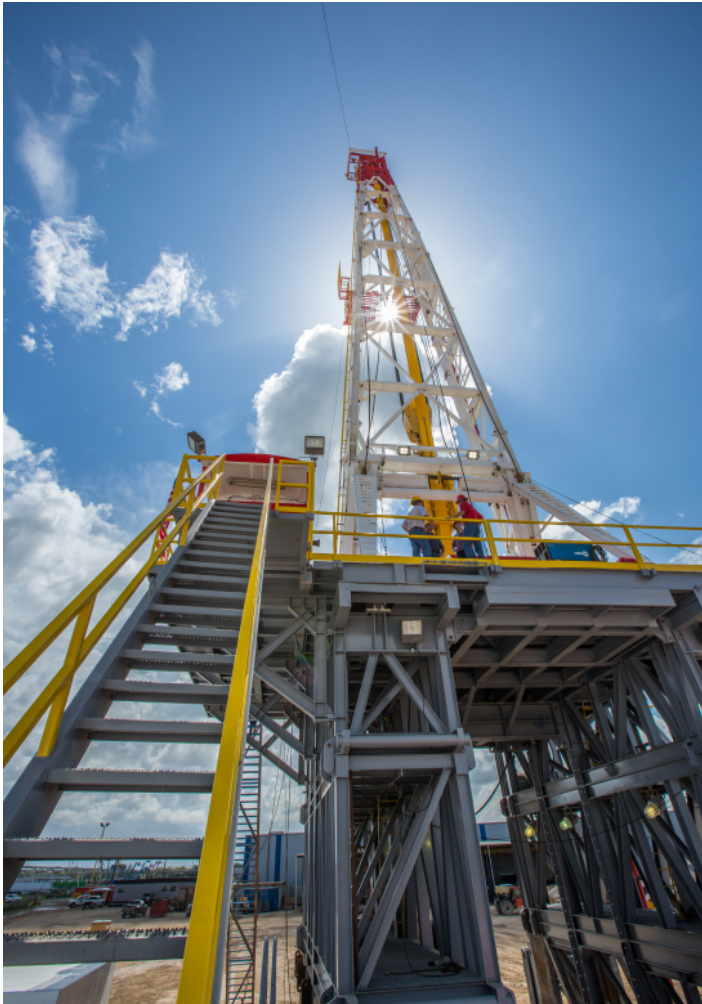
Rig Services is an operational division of HENDERSON that offers unique crown-to-ground services guided by project management methods that allow for complex projects to be accomplished on time and on budget. We are focused on ensuring our customers' rigs are outfitted with the latest technologies and innovations; providing them with safer, more cost-effective and reliable drilling operations.

Whether your rig is cold or warm stacked, HENDERSON has the resources to upgrade it to modern specifications and bring it back to life. With a combined 186+ years of experience, our team has the experience to repair rigs in any condition. In addition, strategically located facilities in Houston and Odessa, TX and Canada, allow us to manage the upgrade process in locations that are closest to your operations.

#### Services Overview:

- Rig-up, rig-down and mobilization services
- Rig refurbishment, crown-to-ground
- In-field modernization upgrades
- CAT III and IV inspections
- Engineering services
- Rig health and market assessments
- Life-cycle management assessments and training
- Maintenance management program assessments and training

## RIG SERVICES



### SERVICES

#### Rig-up, Rig-down and Mobilization Services

- Stacked out warm/cold plan and equipment cycle procedures
- MOB out from warm or cold stack
- Rig up from warm or cold stack

#### Rig Refurbishment, Crown-to-Ground

- Modernization upgrades
- DC to AC conversion
- Add control package
- Full rig and equipment refurbishment

#### CAT III and IV Structural Inspections

- Inspect in the field and provide API reports (findings, pictures, recommendations); partner to make repairs

#### Engineering Services

- Customer unique engineering requirements
- Rig structural assessments with drawings
- Rig electrical/hydraulic schematic plan
- Management of change

#### In-Field Modernization Upgrades

- 4th engine
- Tier 4 modernization
- Bi-fuel or natural gas engine kits
- SCR or VFD modifications
- Energy storage solutions
- 3rd mud pump
- 7,500 PSI fluid ends
- LED lighting package
- Top drive upgrades, exchanges
- Pipe handling equipment
- Setback increase
- Walking system
- Cable management system
- BOP handler
- Rig MOB efficiency modifications

### LICENSING AND CERTIFICATIONS

- API Q1-1965
- API 4F-0339
- API 6A-1520
- API 16C-0290
- API 16D-0114
- API 12J-0028
- API 8C-0315
- ASME - U
- NBIC-R
- AWS D1.1
- ISO 9001:2015
- IADC 01117981

