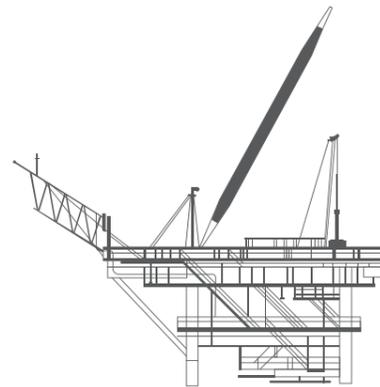


RIGLESS PLUG & ABANDONMENT LIFTING SUPPORT

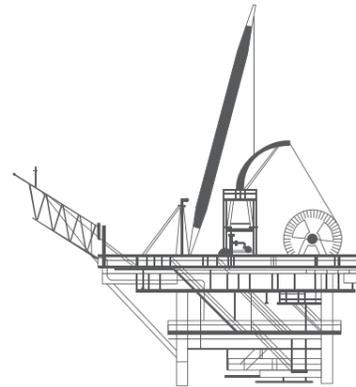
For over 10 years Thunder Cranes has deployed unique lifting solutions to support rigless P&A operations and have helped our clients to resolve a number of key issues, save time, and reduce costs.



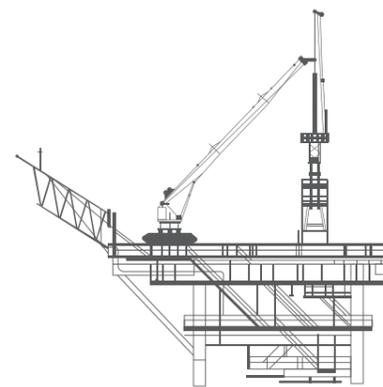
How Thunder Cranes Support Rigless Activities



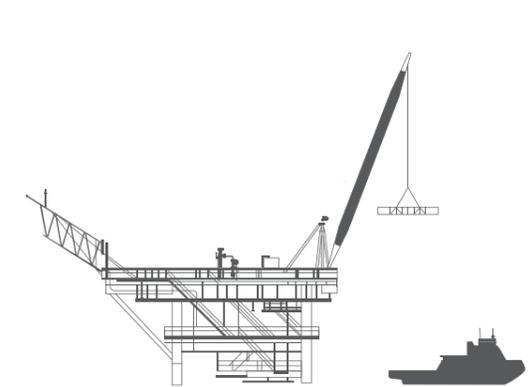
Lifting in support of
Wireline/Slickline



Lifting in support of
CTU



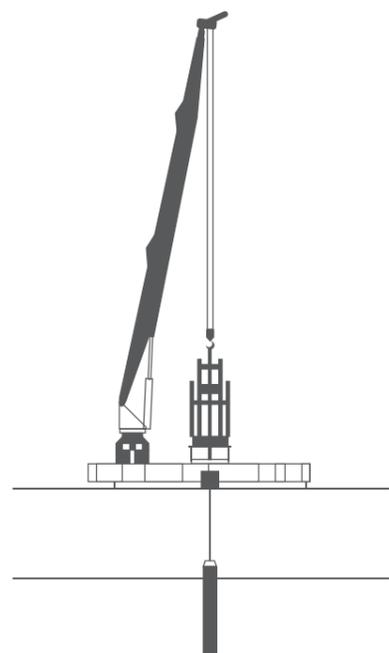
Lifting in support of
HWU/RPU



Lifting in support of
Equipment & Material Handling

“ Lifting Across All Phases Of Rigless P&A ”

TC90 Designed to Support & Complement HWU / Pulling Unit



TC90

- ▶ Type: Pedestal Crane
- ▶ 360 degrees boom rotation
- ▶ Boom lengths from 60ft - 110ft
- ▶ Max Capacity of 72.5 tons

- HWU/Rigless Pulling Unit used to run fishing tools, cutting tools, completion tools, provide rotary services and jack or break the pipe free
- Once Rigless Pulling Unit has jacked the pipe free the TC90 crane can pull tubulars in joints which is faster than jacking out of the hole with rigless pulling unit.
- The TC90 crane can then lower the tubing joint to the platform deck and lay it down before returning to basket elevation.
- A lay-out operation takes approximately 2.5 to 3 minutes per joint and time is saved on every joint

Why use Thunder Cranes? Mitigate key issues in P&A projects



Existing Platform
crane capacity
not sufficient



Insufficient existing
Platform **crane reach**



Platform has
no crane



Insufficient **space**
on platform



Leap frogging

What Are The Advantages Flexible & Adaptable Crane Systems



Our cranes are designed so that offshore platforms require little or **no modifications** for installation.



Our flexible and adaptable systems provide **multiple options** for rigging up, installation and performing the lifting required.



Our cranes are powered independently from the offshore platform utilities via diesel hydraulic **power pack**.



Our component materials are designed for efficient installation and to **minimize weight**.



Our **extension deck** provides a safe, stable surface for staging equipment and maximising the usable area on platforms.