



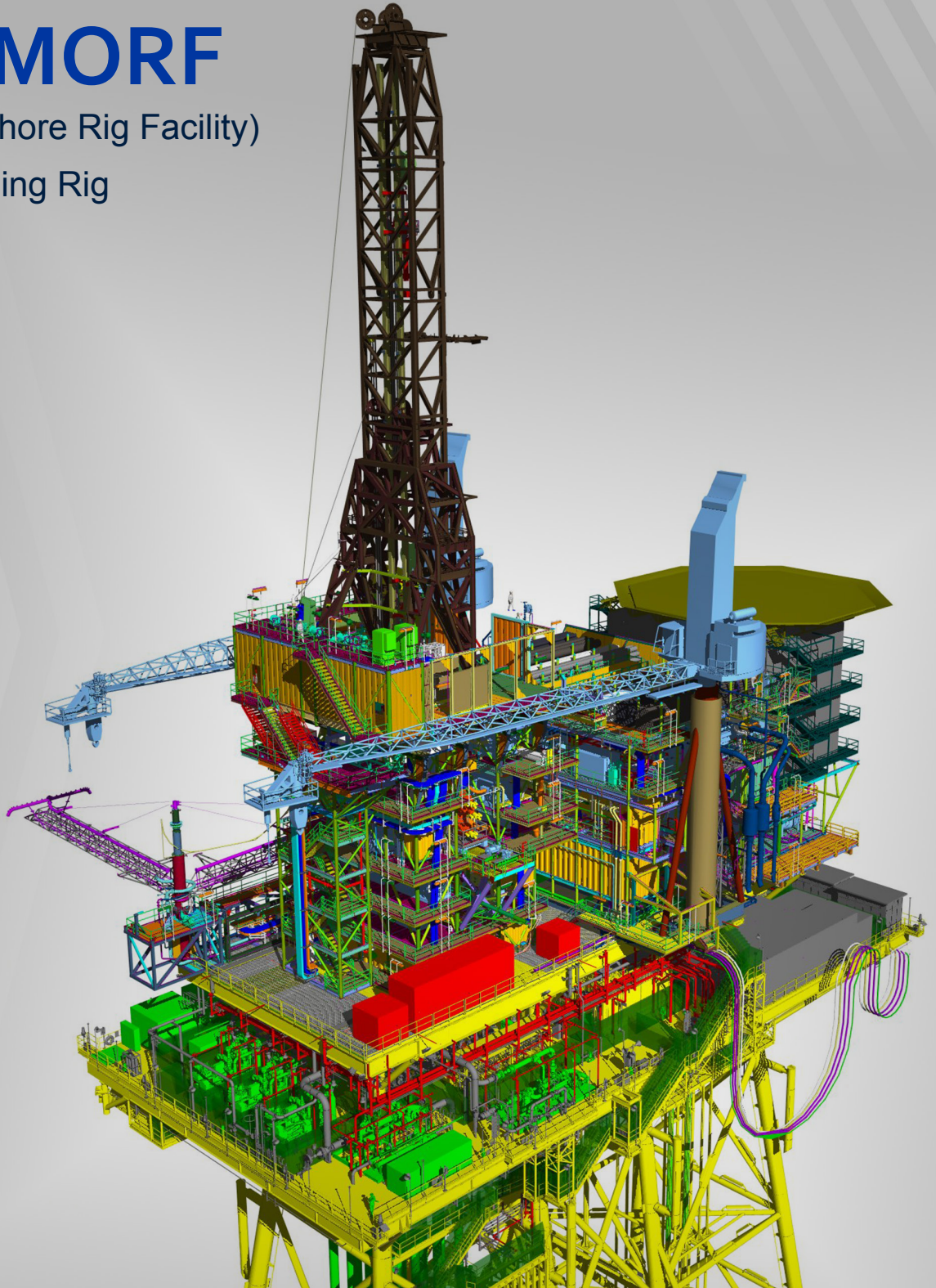
**WILLIAM JACOB™**  
MANAGEMENT

ENGINEERING & PROJECT MANAGEMENT SOLUTIONS

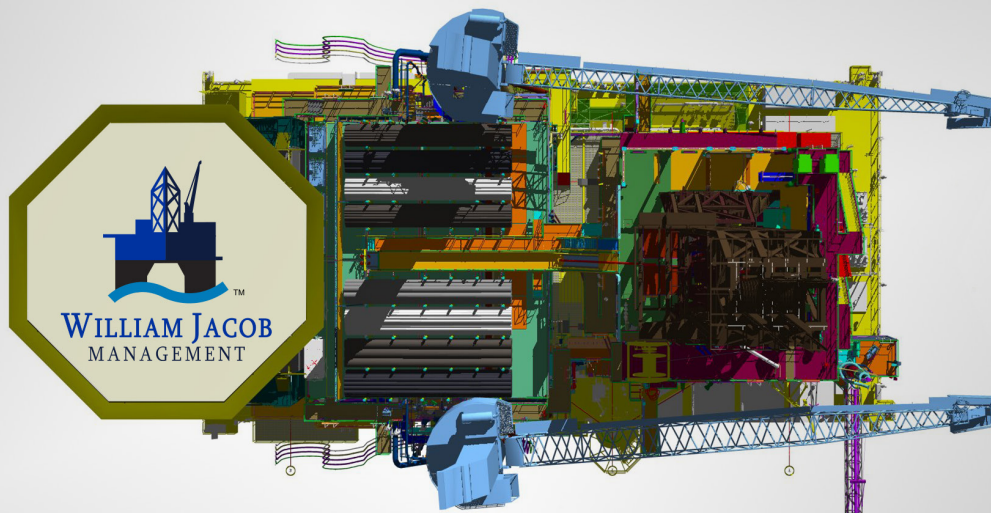
# WJM MORF

(Modular Offshore Rig Facility)

3,000 HP Drilling Rig



# WJM MORF (MODULAR OFFSHORE RIG FACILITY)



## SPECIFICATIONS

### DRILLING EQUIPMENT STRUCTURES (DES) – DRILLFLOOR STRUCTURE

#### MAST

152 ft freestanding, self-erecting Mast with API rated hook load of 1,500,000 lb with racking capability of 30,000 ft of 5-1/2" drill pipe (or 5-1/2" & 4-1/2").

#### DRAWWORKS

3,000 HP unitized gear driven electric Drawworks with dual disc brakes, sized for 1-3/4" drill line, driven by three (3) 1,150 HP AC electric motors. Equipped with one (1) Crown-O-Matic Crown Block protecting device.

#### TOPDRIVE

1,150 HP AC, rated at 63,000 ft/lbs continuous torque.

#### ROTARY

37-1/2" Rotary Table, hydraulically driven, torque capacity of 45,000 ft/lbs with a maximum speed of 200 rpm.

### DRILLING EQUIPMENT STRUCTURE (DES)

#### SOLIDS CONTROL

- Process (Active) Tank Capacity: 600 bbls
- Four (4) dual motion, Triple Deck Shale Shakers (550 gpm each)
- One (1) Desilter/Desander Cones (mounted over 4th Shaker)
- Two (2) Centrifuges
- One (1) Horizontal Vacuum Degasser

#### BOP

- One (1) 37-1/2" Integral Diverter x 0.5K
- One (1) Shaffer 18-3/4" x 5K Annular
- Two (2) Shaffer 18-3/4" x 10K Double Rams

### DRILLING SUPPORT MODULES (DSM)

#### MUD TANKS

- DES Process Tank Capacity: 600 bbls
- Active Mud Tank Capacity: 1,095 bbls
- Reserve Mud Tank Capacity: 750 bbls
- Mud Tank System Capacity: 2,480 bbls

#### MUD PUMPS

Three (3) 1,600 HP x 7.5K Triplex Mud Pumps, each powered by two (2) 1,150 HP AC electric motors and equipped with pulsation dampeners and pressure relief valves.

#### BULK STORAGE

- Bulk Barite Capacity: 4,200 cu. ft.
- Bulk Cement Capacity: 4,200 cu. ft.
- Pallet Storage Capacity: 2,000 sacks

#### GENERATORS

- Four (4) Main CAT diesel engines, rated at 2,588 BHP.
- One (1) Auxiliary CAT diesel engines, rated at 960 BHP.

### PLATFORM PEDESTAL CRANE MODULES

#### PLATFORM PEDESTAL CRANES

Two (2) Offshore Pedestal Cranes rated for 75 Tons SWL with 120 foot Lattice Booms

#### QUARTERS

- One (1) 100 man Quarters Facility
- One (1) Helideck, Rated for Bell 412 Helicopter or similar