



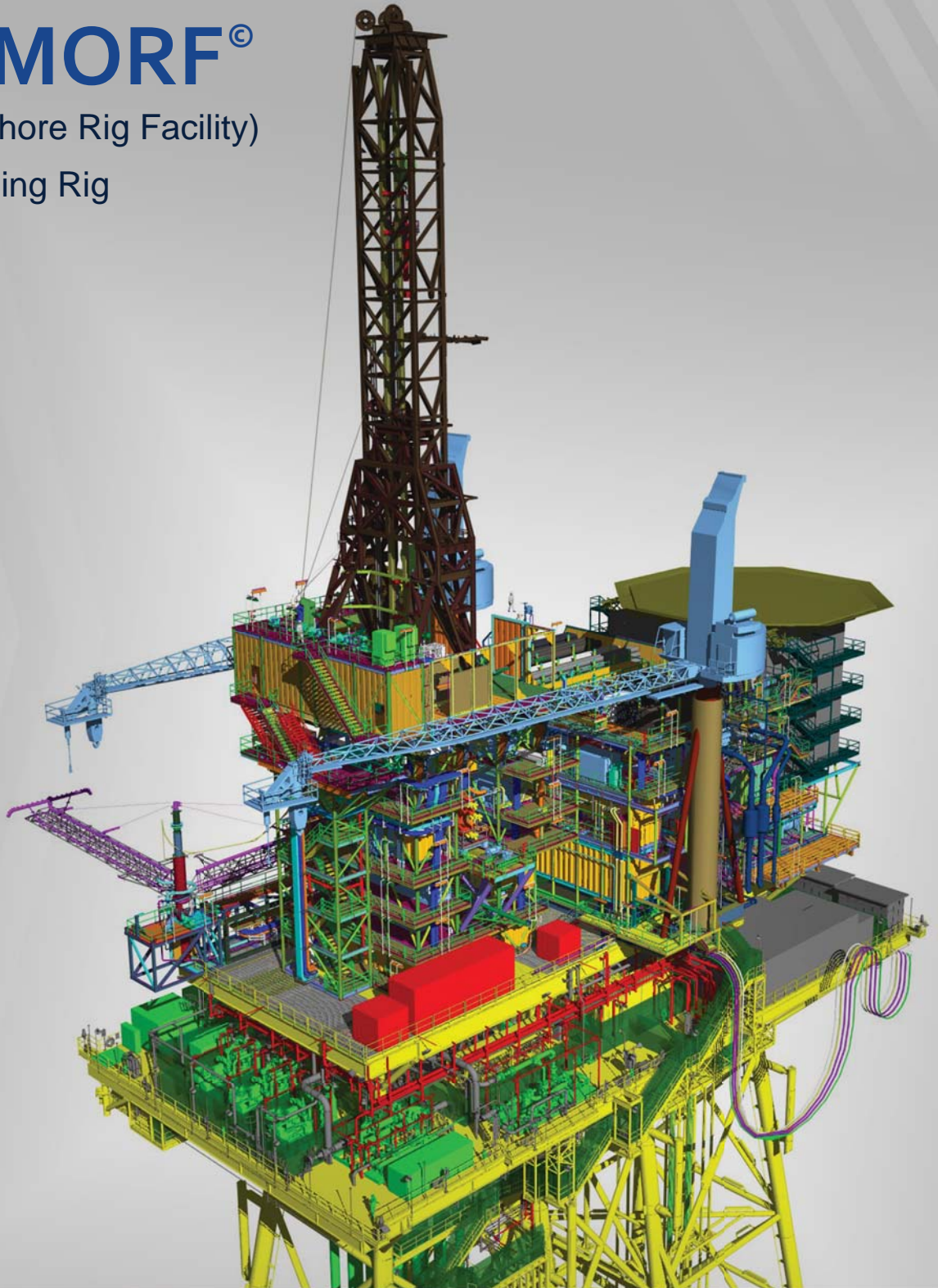
**WILLIAM JACOB<sup>®</sup>**  
MANAGEMENT

ENGINEERING & PROJECT MANAGEMENT SOLUTIONS

# WJM MORF<sup>®</sup>

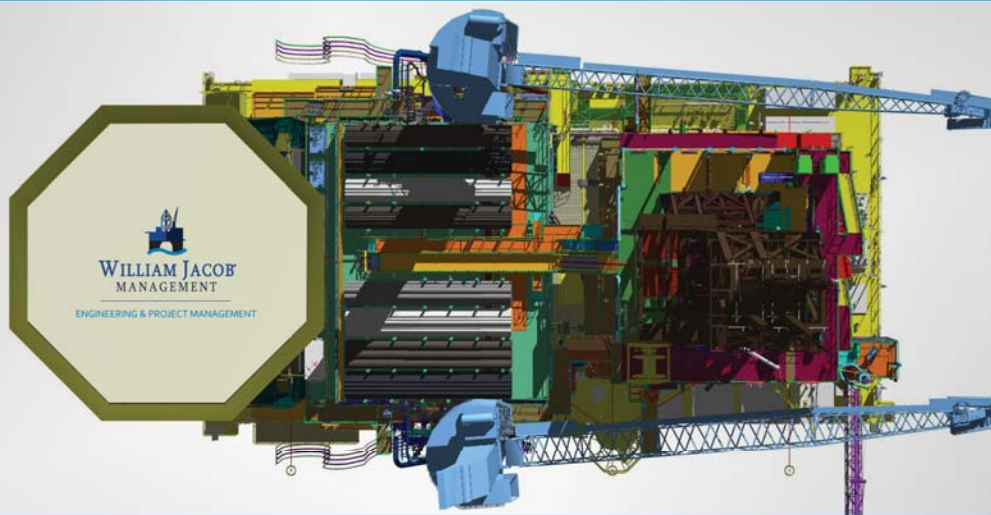
(Modular Offshore Rig Facility)

3,000 HP Drilling Rig



WJM MORF<sup>®</sup> Specification\_11/8/16

# WJM MORF<sup>®</sup> (MODULAR OFFSHORE RIG FACILITY)



## SPECIFICATIONS

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

#### MAST

152 ft freestanding mast with API rated hook load of 1,500,000 lb. 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 block protecting device.

#### TOPDRIVE

1,150 HP AC topdrive. Rated at 63,000 ft-lbs continuous torque.

#### ROTARY

49-1/2" rotary table. Hydraulically driven torque capacity of 40,000 ft-lbs. Maximum speed of 40 rpm.

### DRILLING EQUIPMENT STRUCTURE (DES)

#### SOLIDS CONTROL

- 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 MODULE (DSM)

#### MUD TANKS

- DES Process Tank Capacity: 712 bbls
  - Active Mud Tank Capacity: 1,084 bbls
  - Reserve Mud Tank Capacity: 696 bbls
- Mud Tank System Total Capacity: 2,492 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. 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 2,000 kW.
- One (1) Auxiliary CAT diesel engines, rated at 1,200 kW.

### PLATFORM PEDESTAL CRANE MODULE

#### PLATFORM PEDESTAL CRANES

Two (2) Offshore Pedestal Cranes rated for 100 Tons SWL with 120 foot Lattice Booms

#### QUARTERS

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

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