WJM MORF®
(Modular Offshore Rig Facility)
3,000 HP Drilling Rig
**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

**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