



## Rig 4

### 3000m Vertical

#### 14 Loads-Summer

#### 15 Loads-Winter

Draw works:	TSM 500 (500hp) Rated for 112000 daN, Powered by 1-Detroit Series 60 (14L), w/6 speed Allison transmission. Auxiliary braking by Eaton 224 disc brake.
Mud Pump:	1-F-1000 triplex pump, powered by 1-Detroit Series 2000 (V-12-1005hp), w/ODR Pacific-Rim hydraulic clutch.
Substructure:	Hodgson Substructure. Hydraulic Self Leveling. KB-Ground 4.2m
Mast:	Hodgson Telescopic Range 3 Single Mast. Hydraulically raising (Max static hook load 133000 daN-8 lines)
Top Drive:	Warrior 150 Split Block Top Drive with 2-Speed Haglund and Electric HPU (Max Static Load 133000 daN). Also has 8000 daN pull down capability. Max TD rotary @ 180rpm Max torque @ 25000ft/lbs
Table:	Rostel 17.5" (444mm) powered hydraulically-for auxiliary use only.
BOP's:	1-279mm X 21000kpa HEC Annular Preventer 2-279mm X 21000kpa HEC Single Gate Ram Preventers
Accumulator:	1-5 station 460L 21000kpa PLC Control Drilling accumulator, with N2 backup system.
Mud Tanks:	1-50m3, 4 Compartment circulating system, with additional pill tank and trip tank. 2-Agitators situated in suction tanks, low pressure system powered by 2-5x6 Mission Magnum C-pumps, one with 14" impellor for pumping aerated mud systems.
Solids Control:	2-Swaco Mongoose Dual Motion Elliptical Shaker. Screen available to 200mesh
Water Tank/Doghouse:	Hydraulic raising system-separate sub-storage room. Pason drilling recorder system. 60m3 useable water tank.
Combination Building:	2-540kw Stamford powered by 2-630hp Detroit Series 60 (14L) engines. Monitoring provided by a Woodward panel, which also synchronizes the two generators, and allows them to run in series. Also houses a 12man change shack, and a 10000L fuel storage tank.
Catwalk:	Skate Catwalk, with hydraulic skate, and leveling racks attached. Also houses nace trim 52mm&76mm 21000kpa Manifold.
Pipe Tubs:	3-Hydraulically controlled range 3 tubs 1-Loader Accessible range 3 tub
Tubulars:	3000m 102mm-4 FH, X-95 Drill pipe 6-159mm-4 ½ XH, Drill Collars 12-127mm-3 ½ IF, Drill Collars 25-102mm-4 FH, HWDP
Boiler:	1-100hp Williams&Davis Boiler with self contained 10000L fuel and 8m3 water tank.