

Massarenti MAS 5000 E

Stationary diesel – electric SCR system rig

PRINCIPAL PARTICULARS

Type: Stationary/Electrical
Rating: 1500HP
Drilling depth: 4500m @ 5"DP

DRAWWORKS

Type: MAS 5000E
Horsepower rating: 1500KM
Driven by: 2 x GE 752 (DC motors)
Drilling line diameter: 1 1/4"
Auxiliary break: Drectech 5250

MAST

Type: MAS 5000
Height: 43,3m
Hook load: 350t @ 12 lines

SUBSTRUCTURE

Type: MAS 5000
Total height: 9,14m
Clear height: 7,23m
Setback capacity: 227t
Total capacity: 590t

ROTARY EQUIPMENT

Rotary table type: Oilwell National B 375
Rotary table opening: 37 1/2"
Rotary Table capacity: 590t
Driven by: drawwork's
Swivel type: National P-500
Swivel capacity: 454t
Top Drive System: MH PTD-500 HY
TDS capacity: 454t
TDS max. torque: 42 000 ft lbs
TDS max. speed: 200 rpm
TDS Drive: 2x CAT 3412

TRAVELING EQUIPMENT

Traveling Block type: UBT-360
Block capacity: 326t
Q – ty and size of sheaves: 5x50"
Hook type: integrated
Hook capacity: 326t

DRIVE GROUP

Engine type: 4x CAT 3512C
Generator type: 4x CAT SR-4
Generator rating: 4x 1286kVA
Generator Voltage: 600 VAC/ 60Hz
SCR/VFD Unit: ELMOR, SCR SIEI
Compressors: 2x Boge S90-2 screw type
Grid supply connection possible

MUD SYSTEM

Mud Pumps type: 2x Bomco F-1600
Horsepower rating: 1600HP each
Power pump: GE 752 (DC motors)
Shale Shakers: 3x MI Swaco Mongoose
Mudcleaner: 1x MI Swaco Mongoose 2-12D/8T4
Degasser: CD-1400 Centrifugal type
Active Mud System: 240m³
High pressure line: 2xID-4"/5000psi

BOP EQUIPMENT

BOP Control Unite type: CAD
Single ram BOP: Cameron 13 5/8"-10K Typ U
Double ram BOP: Cameron 13 5/8"-10K Typ U
Annular BOP: Cameron 13 5/8"-5K Typ D

INSTRUMENTATION

Weight Indicator: Martin Deker - Typ E
Recorder: discrete-electronic
Drilling Control System: Drill-Lab