

IDM 2000

Stationary diesel – electric VFD system rig

PRINCIPAL PARTICULARS

Type: Stationary/Electrical
Rating: 2000HP
Drilling depth: 6630m @ 5"DP

DRAWWORKS

Type: IDM-2000-AC
Horsepower rating: 2000HP
Driven by: 2 x 1200kW (AC motors)
Drilling line diameter: 1 1/2"

MAST

Type: IDM-2000
Height: 46,3m
Hook load: 494t @ 12 lines

SUBSTRUCTURE

Type: IDM-2000
Total height: 10,3m
Clear height: 8,5m
Setback capacity: 272t
Total capacity: 725t

ROTARY EQUIPMENT

Rotary Table type: American Block RK 37 1/2"
Rotary Table opening: 37 1/2"
Rotary Table capacity: 590t
Driven by: 1118 kW (AC motor)
Swivel type: integrated with TD
Swivel capacity: 454t
Top Drive System: MH PTD-500-AC
TDS capacity: 454t
TDS max. drilling torque: 43 900 ft lbs
TDS max. speed: 208 rpm
TDS Drive: 858 kW (AC motor)
Iron Roughneck: NOV St-80

TRAVELING EQUIPMENT

Traveling Block type: American Block B60F500
Block capacity: 454t
Q – ty and size of sheaves: 6x60"
Hook type: American Block HH-500
Hook capacity: 454t

DRIVE GROUP

Engine type: 4x CAT 3512B
Generator type: 4x CAT SR-4
Generator rating: 4x 1500 kVA
Generator Voltage: 600VAC / 50Hz
SCR/VFD Unit: VFD UNICO Drive
Compressors: 2x Boge S50-2 screw type
Grid supply connection possible

MUD SYSTEM

Mud Pumps type: 3x Drillmec 12T 1600
Horsepower rating: 3x 1600HP
Power pump: 2 x 858kW (AC electric motor)
Shale Shakers: 3x MI Swaco Mongoose
Mudcleaner: 1x MI Swaco 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 Oilfield
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 DL

INSTRUMENTATION

Weight Indicator: Wagner - WAT 100P-11
Recorder: discrete-electronic
Drilling Control System: Drill-Lab