

National 110UE

Stationary diesel – electric SCR system rig

PRINCIPAL PARTICULARS

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

DRAWWORKS

Type: National 110UE
Horsepower rating: 1500 HP
Driven by: 2 x GE 752 DC electric motor
Drilling line diameter: 1 3/8"
Auxiliary break: Elmago 6032

MAST

Type: Dresco M 14230- 1500B
Height: 53,0m
Hook load: 454t @ 12 lines

SUBSTRUCTURE

Type: Single Shot
Total height: 9,96m
Clear height: 7,62m
Setback capacity: 227t
Casing capacity: 363t

ROTARY EQUIPMENT

Rotary table type: National C-275
Rotary table opening: 27 1/2"
Rotary Table capacity: 454t
Driven by: drawworks
Swivel type: National P-500
Swivel capacity: 454 t
Top Drive System: MH PTD- 500 HY
TDS capacity: 454 t
TDS max. torque: 42000 ft lbs
TDS max. speed: 200 rpm
TDS Drive: CAT 3412
Kelly Spinner type: Weatherford KS-1500AB
Iron Roughneck: EASY TORQUE
Spin Master: Weatherford 13750

TRAVELING EQUIPMENT

Traveling Block type: National 650G500
Block capacity: 454 t
Q – ty and size of sheaves: 6 x 50"
Hook type: National 650G500
Hook capacity: 454 t

DRIVE GROUP

Engine type: 4x CAT 3512 B DITA
Horsepower rating: 1750HP
Generator type: 4x CAT SR-4B
Generator rating: 4x 1714 kVA/ 1200kW
Generator Voltage: 600 V/50Hz
SCR/VFD Unit: SCR BENTEC
Compressors: 1x Boge S90 screw type, 1 x Boge S75 screw type

MUD SYSTEM

Mud Pumps type: 1 x National 10P-130, 2x Wirth TPK-1600
Horsepower rating: 1x1300HP, 2x1600HP
Power pump: 2x GE-752-DC electric motor
Shale Shakers: 3x MI Swaco BEM-3
Mudcleaner: 1x MI Swaco ALS
Degasser: MI Swaco Vaccum type
Active Mud System: 270m³
High pressure line: 2 x 4"/5000psi

BOP EQUIPMENT

BOP Control Unite type: CAD, SB-160-11SB3K
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: Martin Deker - Typ EB
Recorder: Martin Decker Typ RGO – 77 (7-pen)
Drilling Control System: SMART system, level II