

# National N 1625 DE

## Stationary diesel – electric SCR system rig

### PRINCIPAL PARTICULARS

Type: Stationary/Electrical  
Rating: 3000HP  
Drilling depth: 7930m @ 5"DP

### DRAWWORKS

Type: National 1625 DE  
Horsepower rating: 3000HP  
Driven by: 3 x GE-752 DC electric motor  
Drilling line diameter: 1 5/8"  
Sand drum: 9/16"  
Auxiliary break: Elmagco/Baylor 7838

### MAST

Type: Pyramid  
Height: 46,45m  
Hook load: 606t @ 12 lines

### SUBSTRUCTURE

Type: Pyramid  
Total height: 9,4m  
Clear height: 7,1m  
Setback capacity: 317t  
Casing capacity: 635t

### ROTARY EQUIPMENT

Rotary table type: National C-375  
Rotary table opening: 37 1/2"  
Rotary Table capacity: 650 t  
Driven by: 1 x GE-752 DC electric motor  
Swivel type: National P-500  
Swivel capacity: 500t  
Top Drive System: Varco BJ TDS-4S  
TDS capacity: 650t  
TDS max. torque: 50 100 ft lbs  
TDS max. speed: 205 rpm  
TDS Drive: 1 x GE-752 DC electric motor  
Kelly Spinner type: Foster 77  
Iron Roughneck: Varco AR3200

### TRAVELING EQUIPMENT

Traveling Block type: National 760  
Block capacity: 650 t  
Q – ty and size of sheaves: 7x60"  
Hook type: National H650  
Hook capacity: 650 t

### DRIVE GROUP

Engine type: 4 x CAT 3512  
Horsepower rating: 4x 1476 HP  
Generator type: 4 x Jeumont AP 100K6  
Generator rating: 1.500 kVA/840 kW  
Generator Voltage: 600V/60Hz  
SCR/VFD Unit: SCR Hill Graham 5 x 1650A  
Compressors: 3 x GD EDE-99M screw type

### MUD SYSTEM

Mud Pumps type: 2 x National 12P160 + 1x Drillmec 12T 1600  
Horsepower rating: 1600HP each  
Power pump: 2 x GE-752 DC electric motor + 1 x CAT 3516 diesel engine  
Shale Shakers: 3 x Derrick FLC 503  
Mudcleaner: Derrick FLC 503  
Degasser: MI Swaco Vaccum type  
Centrifuge: Alfa-laval DMNX 414  
Centrifuge: Alfa-laval DMNX 418  
Active Mud System: 301m<sup>3</sup>  
Reserve Mud System: 283m<sup>3</sup>  
High pressure line: 2x4"/5000psi

### BOP EQUIPMENT

BOP Control Unite type: CAD Oilfield  
Single ram BOP: Cameron 13 5/8"x10K type U  
Single ram BOP: Upetrom 13 5/8"x10K  
Single ram BOP: Cameron 21 1/4" x 2K  
Double ram BOP: Cameron 13 5/8"x10K type U  
Double ram BOP: Hydril 13 5/8" x 10K  
Annular BOP: Hydril 13 5/8"x5K type GK  
Annular BOP: Hydril 21 1/4"x2K type MSP  
Annular BOP: Upetrom VH 13-5/8"x5K

### INSTRUMENTATION

Weight Indicator: Martin Decker type E [0-400T]  
Recorder: Guerpillon G1025, 8 pens  
Drilling Control System: AUTELEC DCS