

IRI 1700

Stationary diesel – electric SCR system rig

PRINCIPAL PARTICULARS

Type: Stationary/Electrical
Rating: 1700HP
Drilling depth: 5180m @ 5"DP

DRAWWORKS

Type : IRI/Ideco E-1700
Horsepower rating: 1700HP
Driven by: 2 x GE-752 DC electric motor
Drilling line diameter: 1 3/8"
Auxiliary break: Baylor 6032

MAST

Type: IRI/HFM 142-770
Height: 42,3m
Hook load: 349t @ 10 lines

SUBSTRUCTURE

Type: IRI/HFM 142-770
Total height: 9,14m
Clear height: 7,42m
Setback capacity: 226t
Casing capacity: 350t

ROTARY EQUIPMENT

Rotary table type: IRI/Ideco LR-275
Rotary table opening: 27 1/2"
Rotary Table capacity: 635t
Driven by: 1x GE-752 DC electric motor
Swivel type: Ideco TL-400
Swivel capacity: 400t
Top Drive System: TDS-11SA Varco
TDS capacity: 500t
TDS max. torque: 55 000 ft lbs
TDS continuous torque: 37 500 ft lbs
TDS max. speed: 228 rpm
TDS Drive: 2 x Reliance AC-575 400HP
Kelly Spinner type: Varco 6600
Iron Roughneck: Weatherford LP364JH (16-25 + 24-50)

TRAVELING EQUIPMENT

Traveling Block type: IRI/Ideco UTB 400-5-550
Block capacity: 362t
Q – ty and size of sheaves: 5x50"
Hook type: IRI/Ideco UTB 400-5-550
Hook capacity: 362t

DRIVE GROUP

Engine type: 4 x CAT 3512 + CAT 3512 TA
Horsepower rating: 4x 1025 HP + 1458HP
Generator type: 4 x CAT SR-4 + ID98461213
Generator rating: 937 kVA/700 kW
Generator Voltage: 600V/50Hz dla SR-4 i 690V/50Hz dla ID98461213
SCR/VFD Unit: SCR Ross Hill M-1400
Compressors: 2x Boge S-100 screw type

MUD SYSTEM

Mud Pumps type: 3x Ideco T-1300
Horsepower rating: 1300 HP each
Power pump: 2x GE-752 DC EM electric motor + 1 x CAT 3516 diesel engine
Shale Shakers: 3x Derrick FLC 503
Mudcleaner: Derrick FLC 503
Degasser: MI Swaco Vaccum type
Centrifuge: Brandt-Rightech HS3400 VSD
Active Mud System: 205m³
High pressure line: 2x4"/5000psi

BOP EQUIPMENT

BOP Control Unite type: Koomey T80
Single ram BOP: Cameron 13 5/8"x10K type U
Single ram BOP: 2x Cameron 20 3/4"x3K type U
Double ram BOP: Cameron 13 5/8"x10K type U
Annular BOP: Cameron 13 5/8"x10K type DL
Annular BOP: Hydril 21 1/4"x2K type MSP

INSTRUMENTATION

Weight Indicator: Martin Decker type EB
Recorder: Totco type 3586, 8 pens
Drilling Control System: Totco type MVT-104A E-mud system