

# Mid – Continent U-1220-EB

## Stationary diesel – electric SCR system rig

### PRINCIPAL PARTICULARS

Type: Stationary/Electrical  
Rating: 2500HP  
Drilling depth: 7010m @ 5"DP

### DRAWWORKS

Type : MidContinental U-1220EB  
Horsepower rating: 3000 HP  
Driven by: 3 x GE-752 DC electric motor  
Drilling line diameter: 1 ½"  
Auxiliary break: Elmagco/Baylor 7838+C42

### MAST

Type: Pyramid  
Height: 46,3m  
Hook load: 725t @ 14 lines

### SUBSTRUCTURE

Type: Pyramid  
Total height: 10,6m  
Clear height: 9,25m  
Setback capacity:400 t  
Casing capacity:750 t

### ROTARY EQUIPMENT

Rotary table type: Wirth RTSS 49-1/2  
Rotary table opening: 49 ½" [37 ½" adapter]  
Rotary Table capacity: 725t  
Driven by: 1 x GE-752 DC electric motor  
Swivel type: Gardner Denver SW-650  
Swivel capacity: 650t  
Top Drive System: Varco TDS-11SA  
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: Weatherford KS1500AB

### TRAVELING EQUIPMENT

Traveling Block type: McKissick RP  
Block capacity: 680 t  
Q – ty and size of sheaves: 7 x 60"  
Hook type: BJ Hughes 5750  
Hook capacity: 680 t

### DRIVE GROUP

Engine type: 4 x CAT 3512  
Horsepower rating: 4x 1435 HP  
Generator type: 4 x Kato 6P6-2400  
Generator rating: 1429 kVA/1000 kW  
Generator Voltage: 600V/60Hz  
SCR/VFD Unit: SCR Omron 4x5  
Compressors: 2 x Boge S-75-2 screw type

### MUD SYSTEM

Mud Pumps type: 3 x Gardner Denver PZ-11  
Horsepower rating: 1600 HP each  
Power pump: 2 x GE-752 DC electric motor + 1 x CAT 3512 diesel engine  
Shale Shakers: 3x MI Swaco Mongoose  
Mudcleaner: 1x MI Swaco Mongoose  
Degasser: MI Swaco Vacuum type  
Centrifuge: 2x MI Swaco 518  
Active Mud System: 173m<sup>3</sup>  
Reserve Mud System: 134m<sup>3</sup>  
High pressure line: 2x4"/5000psi

### BOP EQUIPMENT

BOP Control Unite type: CAD-EX 4200761078BR2  
Single ram BOP: HRSB 20 ¾" x 3K  
Single ram BOP: Control Flow 13 5/8"x15K type U  
Double ram BOP: Control Flow 13-5/8"x15K type U  
Annular BOP: Hydril 21-1/4"x2K type MSP  
Annular BOP: 7072 type T3 13-5/8"x10K

### INSTRUMENTATION

Weight Indicator: AOI Totco type 100  
Recorder: M/D type RG33, 8 pens  
Drilling Control System: SMART System - Level 1