



## **Made in Texas USA - 1300 HP Land Drilling Rig**

### **Drawworks**

MI – 1300, 1300 HP Heavy Duty Single Drum Drawworks

#### **Features:**

Nominal Drilling Depth: up to 14,000 ft

Nominal Horse Power: 1,300 HP

Hoisting Speeds: 8 forward, 2 reverse

Main Drum Size: 21" x 40 ½"

Drum Grooving: Lebus 1 ¼"

Brake Rim Size: 46" x 9" (Water Cooled)

Brake Contact Area: 2376 sq inches

Catheads: Foster Type

Clutches: Twin-Disc

Auxiliary Brake: 236 WCBD Eaton Air Brake

Controls: Air Actuated

Skid: Oilfield Type Master Skid

Compound: Two Engine Compound mounted on Drawworks Master Skid

### **Power:**

Engines: Two Caterpillar C-18 Diesel Engines rated 630-HP @ 1800 RPM

Torque Converters: Two National Type C-195 Torque Converters complete with Air Clutch

Cooling System for Eaton brake

Cooling system will consist of (1) plate type heat exchanger, (2) 3x4 centrifugal pump powered by 25-HP electric motor, and all necessary plumbing.

## Mast & Sub

A. Two (2) DSII 750,000# Mast and Box on Box Substructures.

a. DSII 750-S Cantilever Mast Assembly M7501-A i. 136' X 20'-2" Base beam leg cantilever mast with hook load capacity of 750,000# with 12 lines strung to traveling block. Mast designed per A.P.I. specification 4F Mast complete with the following:

1. CROWN

a. Block complete with 6-50" fabricated cluster sheaves and 1-60" fabricated fast line sheave, tapered roller bearings, shaft drilled for grease fittings, line guards, crown safety platform and handrails.

2. ADJUSTABLE RACKING BOARD

a. Capacity of 242 stands of 5" drill pipe and 10 stands of 9" drill collars, complete with working platform, floor slab, and 7' high handrails.

3. FULL LENGTH LADDER ASSEMBLY

4. DERRICK BOOM KIT

a. Designed to support 5, 000# load, complete guy line attachment, boom and attachments, and 8" sheaves grooved for 9/16" wire line.

5. TONG COUNTERWEIGHT (2 per set) complete with:

a. Buckets

b. Guides

c. Blocks.

6. ONE (1) RAISING LINE SET

7. Set of assembly bolts and pins.

8. Mast Raising Padeyes

a. DSII to supply material and labor to fabricate four (4) padeyes. Padeyes designed to handle lifting the DSII 750K Cantilever Mast in the fully assembled position.

b. DSII to supply a drawing for installation positions to the mast

b. "New" DSII 18 x 20'-2" x 750K Box on Box Substructure

i. Substructure with a 18' working floor height and a rotary capacity of 750,000# and a setback capacity of 400,000#. The substructure to be a box type construction with two (2) 12' high x 5' wide x 50'-0" long substructure top boxes and two (2) 6' high x 5' wide x 50'-0" long bottom boxes

1. Substructure to accommodate cantilever type mast and mechanical inline drawworks.

2. Clear height under rotary table to be approximately 15'-9".

3. Swing-type connection plates between boxes.

4. Substructure complete with:

a. Checkered plate flooring on top of main boxes.

b. Smooth plate recessed 6" on setback area.

c. Swing out style doghouse supports.

5. Substructure to accommodate a 27 1/2" rotary table.

6. Substructure to be sandblasted, epoxy primer and urethane top coated.

ii. Slingline Equalizer

1. Sheave grooved for raising line
2. Sheave designed to work with customer's block

iii. Deadline Anchor

1. Mounting Support integrated into Off Driller's Side top box.

iv. Rig Floor Stairways

1. All stairs to meet OSHA standards with no slip grip strut stair treads.
2. Two (2) 30'-0" stairways from substructure floor to ground level. Stairs to be built on a 45-degree angle.

**Weight Indicator System**

(1) Model 75 box mount weight indicator assembly consisting of the following: (1) WA-75 weight indicator, (1) sensor, (1) box with doors, 50' of hose, (2) sets of disconnects, (1) sensor pins.

**Deadline Anchor**

(1) Rebuilt National Type EB anchor complete with load cell tension sensor

**Wireline Machine**

Wireline Unit – Complete with Counter, Arm Assy, and 16,000' .092 Wire.

**Air Hoist**

(2) Ingersoll Rand FA5A-24XK1G air hoist

**Catwalk & Pipe Racks**

(6) Sets of (1) standard catwalk.

**Mud Pumps**

(2) New RSF-1600 Triplex Mud Pump powered by new Caterpillar 3512-HD diesel engines. These units will be mounted on a new oilfield type three runner skid and unitized with the following equipment:

- (1) New Chain Drive Assembly (includes bull sprocket, drive sprocket, hub, drive chain, bearings, seals, clutch drum, clutch support, air clutch, lubrication system and oil tight chain case) , (1) New 20 Gallon 5,000 psi pulsation dampener, (1) New 5,000 psi discharge strainer, (1) New 3" 5,000 psi shear relief valve, (1) New 2" 0-6,000 psi mud pressure gauge, (1) New pinion driven 5x6 charge pump, (1) New pinion driven liner wash system, and (1) New set of fluid end expendables

## **Mud System & Solids Controls**

(1) 1000 barrel pit system consisting of the following: 12" 40# WF Three Runners, 10" 39# WF Cross Beams, 3/8 Rolled Bottom, 100% Seams Weld & Seams ½ Strap Seal Welded ¼" Walls, 3/8 Square Tubing Rimeline & Uprights, Covered Porch & Whole Top Grated All Plumbing, (8) Mud Guns (4) 5 x 6 x 75 x 250 Frame Exp. Stacked Pumps, 2 x 12 Desander (1) 16 Cone Desilter Ruff Shaker Dual with Bypass , (5) 10 HP Agitators (1) 6" Hopper Water Tanks

(2) Water tank will be 8' X 10' X 40' three runner skid with a porch, (2) 2X3 centrifugal pumps with 20-HP electric motors and necessary plumbing. Materials will consist of 8" WF beam runners & crossbeams, ¼" V-crimp walls, and ¼" floor. One of the tanks will have a separate 1,000 gallon compartment for the closed loop glycol as part of the Eaton brake cooling system.

## **Top Dog House**

Dog house will be 8'X10'X 25' two runner skid with a 5' porch. Materials will consist of 10" WF beam runners & crossbeams, ¼" V-crimp walls, knowledge box, bench, electric heater & vent, 4 lockers, and necessary stairways.

## **Change House/Parts House**

House will be 8' X 10' X 40' three runner skid. Materials will consist of 12" WF beam runners & crossbeams, ¼" V-crimp walls, ¼" roof, and ¼" floor. Parts house will have (1) 6' long X 3-1/2' tall X 2-1/2' wide work table with a lower shelf, (5) double door 3-shelf parts lockers that are 8' tall X 4-1/2' wide X 1-1/2' deep, (3) rows of parts hooks 6' wide, (2) overhead lights, and (1) wall receptacle. Change house will have (1) 12' long X 2-1/2' tall X 2' deep bench with (3) 4' long hinged lids, (12) personnel lockers, (1) electric heater, (2) overhead lights, (1) wall receptacle, and (1) 4' long X 2-1/2' tall X 1-1/2' wide storage bench.

## **Generator House**

New generator house built on a three-runner oilfield type skid. The house will be 37'-10" long X 11'-4" wide with a 13" long X 7'-3" wide porch on each end. The house has (2) new Caterpillar C-18/455 KW gen sets. The gen sets are mounted on each end of the house, both radiators facing out. The house will have a New Square D Model 6 motor control panel. There are a total of 45 Appleton plugs in the distribution panel, along with a Jefferson 480 volt transformer. There are dual diesel day tanks, a New Sullivan Palatek 30-HP air compressor, and cable trays.

**Block & hook**

Rebuilt National 650G500 block & hook combo

**Swivel**

Rebuilt LB-400

**Rotary Table**

New 27.5 Chinese National or Emsco style rotary table complete with split master bushings.

**Electrical Rig Up**

All necessary cable trays, Class 1 Division 2 rig lighting, and electrical rig up for rig tanks, houses, centrifugal pumps, etc.

















