

**Year Built:** 2008 / 2023

**Rated Drilling Depth**

5 ½ in. Drill Pipe: 21,000 ft (6,400 m)

**Mast**

Make, Type: Loadmaster, Telescoping  
Height: 152 ft (46 m)  
Max. Hookload: 1,000,000 lbs  
Racking Capacity: 5-1/2 in. drill pipe, Range II  
Triple – 23,000 ft (7,012 m)

**Drawworks**

Make: Varco ADS-10D AC 2,800 hp  
Maximum Input: (2,089 kW)  
Continuous Input: 2,300 hp (1,715 kW)  
Input Power: Two (2) 1,150 hp GEB-22 AC motors

Drilling Line: 1-1/2 in. (38 mm)

**Traveling Equipment**

Traveling Block: Dreco 660TB-500  
Max. Load: 1,000,000 lbs

**Substructure**

Make, Type: Loadmaster, Hydraulically Raised  
Rig Floor Height: 32 ft (9.75 m)  
Clear Working Height: 28 ft (8.5 m) Setback Capacity:  
600,000 lbs  
Walking System: Loadmaster Lift-an-Roll, ability to walk  
with full setback, 360 deg. capacity

**Rotary Equipment**

Top Drive: TDS-11SA  
Max. Load: 1,000,000 lbs  
Max. Cont. Torque: 58,800 ft-lbs  
Input Power: Two (2) AC drilling motors, each  
rated 600 hp (895 kW)  
Rotary Table: NOV D-375  
Input Power: 37-1/2 in. (952 mm)  
Static Load Rating: 1,150 hp (858 kW)  
1,300,000 lbs

**BOP System**

Annular Preventer: Hydril 21-¼ in. 2M Diverter, 13-5/8 in.  
5M annular  
Ram Preventers: Cameron 13-5/8 in. 10M double ram  
Cameron 13-5/8 in. 10M single ram



**Gensets**

Engines: Five (5) Caterpillar 3512-B 1,476 hp  
(1,100 kW) @ 1,200 rpm each  
Generators: Five (5) Kato 6P6-3300 generators;  
1,365 kW (1,950 kVA) each

**Power Distribution**

Gen. Control: National Oilwell Varco - Amphion  
Function Control System with ABB  
Variable AC Drive, easYgen  
Control System  
VFD: Nine (9) ABB Drives, Inverters  
MCC: Two (2) 3200 NOV Converters  
(8) 600 VAC (14) 480 VAC

**Mud Pumps**

Pumps: Three (3) NOV 12-P-160 pumps;  
each rated 1,600 hp (1,193 kW)  
Input Power: Each pump driven by two (2)  
1,150 hp GEB-22 AC motors  
Fluid Ends: NOV Mission, 7500 psi

**Mud Handling/Solids Control**

Total Mud Volume: 2,000 bbls (318 m³)  
Shale Shakers: Three (3) Derrick FLC-503, 3-panel  
High-"G" shakers; 560 gpm each One  
(1) Derrick High-"G" Dryer Swaco  
Degasser: Horizontal D-Gasser; 800 gpm



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**Design Features (All main components conform to API specifications)****Mast & Substructure**

- Mast and substructure are raised via hydraulic cylinders, and the mast sections are scoped via the Drawworks
- Mast is completely assembled at horizontal position, pinned to the drill floor, and with the drill floor in the lowered position
- Beams are integrated into the mast structure for the dissipation of torque generated by the top drive during operation.
- Substructure's slingshot design allows floor equipment to be installed in its lower position and swing up in place during the raising operation. Subsequently, it is all lowered simultaneously as the rig is lowered.
- Maximum package for transportation for either the mast or substructure is 44.3 feet in length x 10.5 feet in width x 8.5 feet in height. Maximum weight associated with this package is 44,000 lbs, or 20 metric tons.

**Mud Pumps**

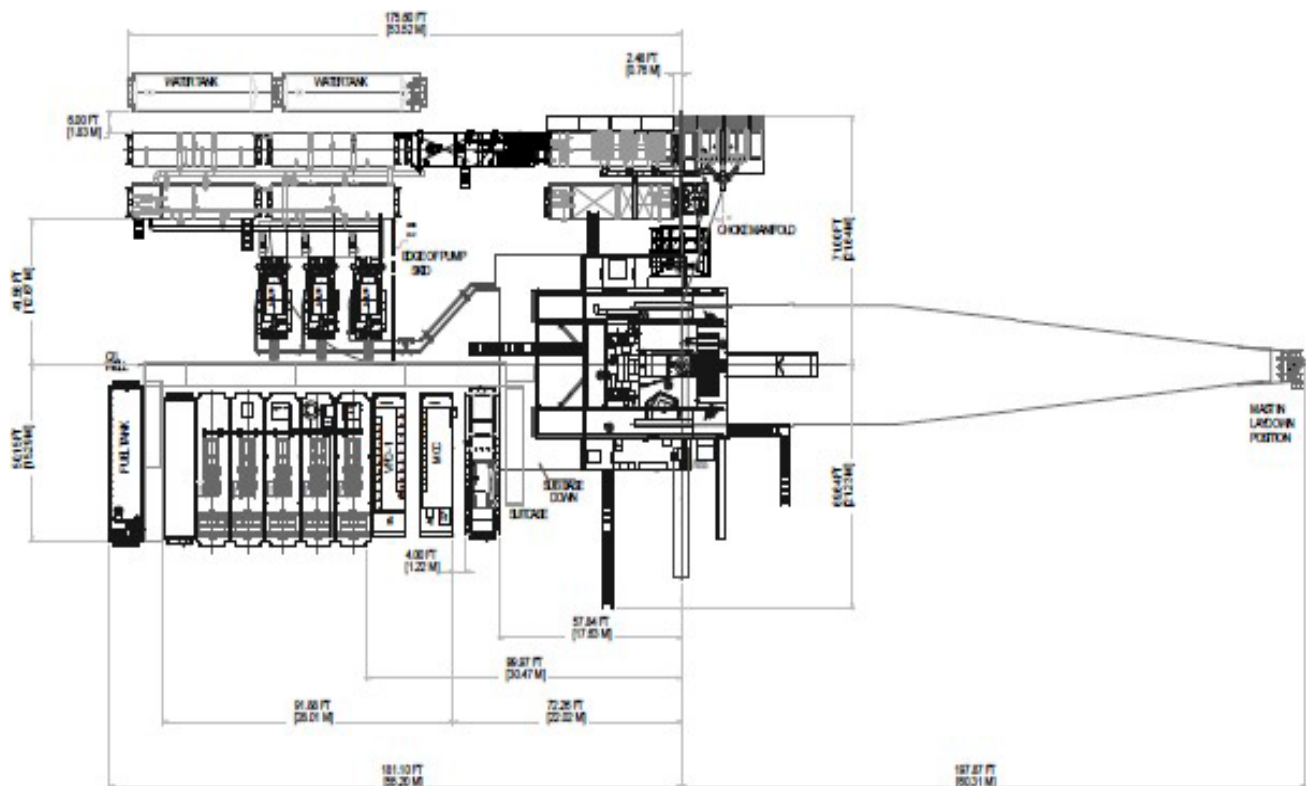
- Three (3) NOV 12-P-160, 1600 HP mud pump packages driven by belt drives.

**Drawworks**

- Digital closed-loop controls and dynamic braking systems take full advantage of integrated automation during tripping operations and zero-speed hovering.
- Can achieve constant bit weight and automatic bit feed control 0.3 – 197 ft/hr (0.1-60 m/hr).
- Drawworks features a simple mechanical transmission and reliable controls.
- Brake system is a combination of hydraulic disc brakes and dynamic braking.
- Motor, gearbox, drum, lubricating system and disc brake are installed on skid as one piece for ease of transportation.
- Digital control of drawworks parameters, such as hook speed, hook position, automatic drilling and dynamic braking. Drawworks' air and hydraulic systems controlled by the programmable logic controller (PLC) system in driller's console.

**Controls**

- Intelligent driller control uses advanced variable frequency drive (VFD) control technologies and integrated PLCs. Driller monitors and operates essential drilling functions from a driller's chair located on the rig floor.



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