

1500hp AC Rigs. General overview



BOP Trolley System

1,500 HP AC Rigs



Load Rating - 1,000,000 lbs
Nom. Drilling Depth - 15,000 ft
Skidding System - Yes
Setback Capacity - 490,000 lbs



Substructure



Substructure – Front View



Substructure – Lateral View

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Pumping & Treatment Equipment



Triplex Mud Pumps



Mud Pumps – F-1600 – 5,000 PSI
Mud Tanks – 1975 Bls
Shale Shakers - Mongoose Pro
Desilter – Mi Swaco 8T4
Desander – Mi Swaco 212



Shale Shakers



Mud Hoppers



Mud Pit Room

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Well Control Equipment



Double Ram Preventer



Accumulator– FKQ720-6
Double Ram Preventer – 5,000 PSI
Single Ram Preventer – 5,000 PSI
Annular Preventer – 13 5/8" 5K PSI
Choke Manifold – 5K PSI – 4 1/16"



Choke Manifold



Single Ram Preventer



Annular Preventer

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Drawworks

Hoisting Equipment

Drawworks – Bomco 1,500 HP – JC-50DB

Drilling Line – 1 3/8" 6x19" EIPS IWRC

Crown Block – 7x60" 1,000,000 lbs

Travelling Block – 6x60" 1,000,000 lbs



Rig Floor



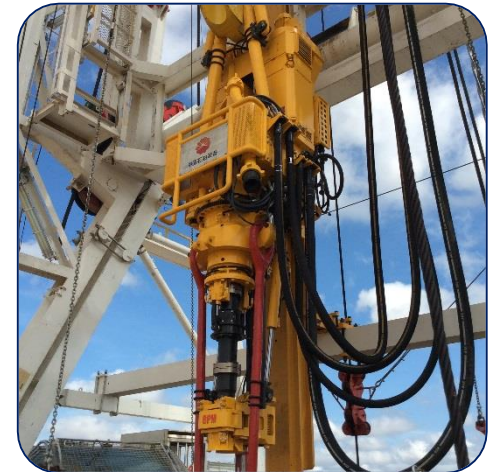
Driller's Cabin

Rotating Equipment

Top Drive System - BPM - DQ70BSC – 500 Tons

Rotary Table – ZP375 37 1/2" – 1,072 Kw Motor

Note: Includes different sizes of Slips



Top Drive

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Gen-Set Room

Power Generation

Engines – 3 CAT 3512 B
Generators – 3 CAT SR4B
Auxiliary Gen-Set – C15
Power Transfer – AC, VFD House



Engine

Auxiliary Equipment

Skidding System – Yes – 120 M
Compressors – Two (2) – Sullair LS-12-50HH
Gas Detection System - Yes



Skidding System



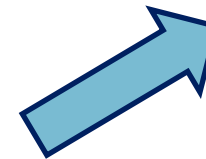
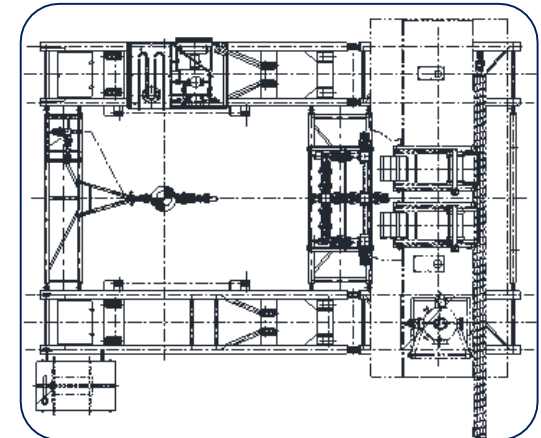
Compressors

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Benefits of Skidding System

- Skidding Procedures can be done with pipes stacked on Setback.
- Rig does not need to be rigged down with each load.
- Decreased drilling time per well, resulting in higher profitability and significant cost savings.
- Suitable for pad style and multi-well drilling fields.
- Efficient space distribution.

Dual Direction Cylinders → Allows Skidding Procedures in both directions (Forward & Backwards)



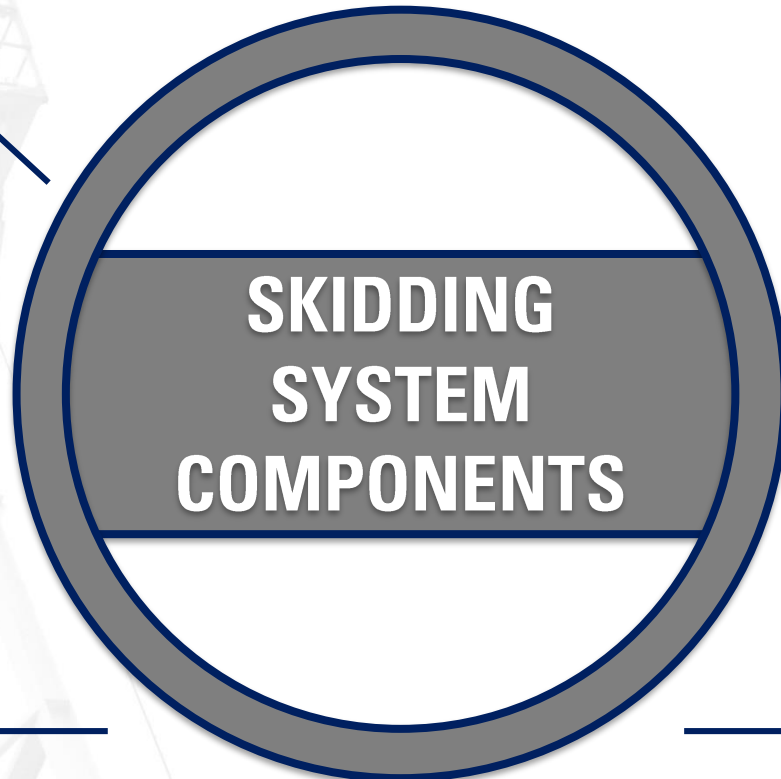
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Skidding System



Matting Board

Hydraulic Cylinders

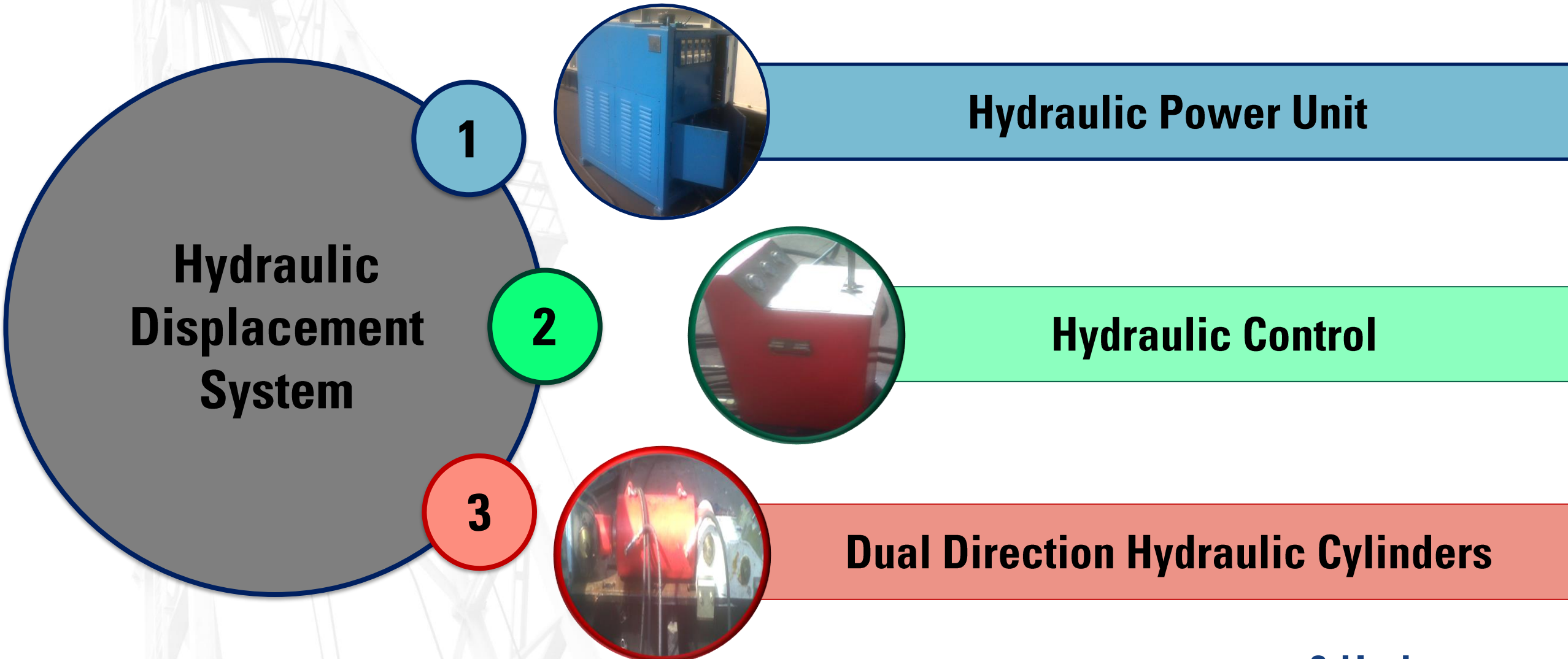


Tracks

HPU



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1



Hydraulic Power Unit

2



Hydraulic Control

3



Dual Direction Hydraulic Cylinders

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1



Provides the Hydraulic Power to operate the Skidding System with a Maximum Pressure of 3770 PSI.

2



Directs the Hydraulic Pressure from the high pressure lines to the cylinders in order to move the rig package

3



Hydraulic Cylinder Stroke	0.5 Meters
Max Working Pressure	3770 Psi
Max Moving Speed	0.3 Meter/Min
Max Moving Length	100 Meters

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System Specifications

Maximum Weight Moved (Ton)	540
Tracks Height (mm)	436
Tracks Length (Meters)	32
Single Track Length (Meters)	4
Maximum Moving Speed (Meters/Min)	0.3
Step Distance (Meters)	0.5
Wind Speed Permitted in Skidding (Meters/Seg)	8



1500hp AC Rigs. General overview– Skidding System

Skidding Procedure

1. Perform a Pre Job Meeting before Skidding
2. Take leveling readings with Surveyor.
3. Check that the hydraulic system (lines, valves, pumps) work properly and have not any leak
4. Locate the hydraulic cylinders on the front (According with the Skidding Direction). Connect to the hydraulic system.
5. Turn on the Hydraulic Unit. Operate slowly the control lever. Ensure that the Hydraulic Cylinders be aligned.
6. Move the Rig by 0.5 m. Repeat the procedure until the final distance.
7. After each step, locate the track on front of the Rig in the direction of the movement. Repeat the procedure until necessary.
8. Recommended Pressure for the Rig Skidding approximately 1450 psi.

