OVERVIEW OF RIG MOVING SYSTEMS

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Presentation Outline

- Benefits of Rig Moving Systems
- What is a Walking System?
- Styles
- Applications
- Benefits
Moving Systems Benefits

• Rig Moving Systems increase operational efficiencies resulting in increased profits for operators and drilling contractors.

• Each system is custom designed to meet the requirements of the location, operating environment and specific needs of the contractor.

• Complete rig can be moved without emptying fluids and setback.

• Custom solutions provide maximum reliability, durability and safety.
Walking Systems
Pin-on Systems

- Retrofit Existing Rigs
- 1-2 M Lb. Walking Weight
In-Sub Systems

• Existing Rig Substructures/New Builds
• 1-2 M Lb. Walking Weight
• Walking System ships with sub boxes
Low-Profile Systems

HEAVY HOIST, DEEP HOLE, TOP DRIVE
Walking Pad Rig

360° PAD WALKING SYSTEM
Walks in any direction at up to 30 ft/hour (9.1 m/hr) for moves hole to hole
Substructure Systems

- New Rig Builds
- 1-6 M Lb. Weight
- Fit-for-Purpose
Fit-for-Purpose Rigs
Walking Systems - Benefits

• Moving Efficiency: Typically about 1.22 meter (4’) of linear travel per minute.

• Precision : Position to within 6.35 mm (1/8”).

• Low Ground-Bearing Pressure: Scalable Footprint.

• Flexible Operator Controls: Wired or Wireless.

• Custom Engineered: Designed for rig specifications.

• Ease of Transport: Ship in truck/container loads.
Wheeled Moving Systems

- Fit-for-Purpose Rigs
- Faster Travel Speed
- Versatility – Hybrid
Wheeled Systems Benefits

• Complete rig can be moved without emptying fluids and setback.

• Move at a faster speed than is possible by rig tear down & trucking, skidding or walking.

• Self-propelled and towable solutions can reach speeds of up to 3.2-4.8 km/h (~2.5 mph).

• Steerable and can typically be precisely positioned within 12mm (1/2″) of well center.
Applications

- Island Projects
Equipment for Island Project

3000 HP Rig - Walking Systems
Mobilize Drill Module, Mud Module & Power Module
Applications

• Extreme Environments
Applications

• Controlled Areas
Benefits

• Pad layout can be designed to allow drilling and completion to occur simultaneously.

• By drilling and casing surface holes, then all intermediate holes and finally all laterals, a drilling contractor can reduce the number of times to change mud type and drill pipe.

• Crew efficiencies go up when they perform the same operation many times in a row.

• Implementing a batch drilling process, with a mobile rig application, could potentially reduce drilling costs an additional 10 percent.
Benefits

• Reduced environmental impact on land by minimizing the size and quantity of leases.

• Fit-for-Purpose rigs allow for increased efficiencies moving the drilling rig from well to well.

• Walking increases safety by minimizing rig-up and down activities between wells, including allowing to move with full setback.

• Reports of up to $500,000 reduction in drilling costs per well (Eagle Ford Shale in South Texas).
Popularity

2014 Rig Moving Systems

% Rigs with Moving System

Skidding

Walking
QUESTIONS?
To Learn More ...

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