

Power Rig 7 AC

Inventory



RIG 7 INVENTORY



DRAWWORKS & TOP DRIVE EQUIPMENT

| | |
|------------------------|---|
| Drawworks | Tri-Service Manufacturing powered by 1500 hp Joliet A.C. motor. |
| Auxiliary Brake | Eaton 36" dual disc. |
| Top Drive | National Oilwell Varco 500-ton TDS-11 rated at 800hp. |

POWER PACKAGE

| | |
|-------------------|--|
| Engines | (3) Caterpillar 3512C motors rated at 1470 hp. |
| Generators | (3) Kato generators rated at 1204 kw. |
| VFD System | Omron 3x4 AC |

MAST & SUBSTRUCTURE

| | |
|-------------------------------|--|
| Mast Type | Cantilever Triple |
| Mast Manuf. | Drill Master |
| Static Hook Load | 750,000 lbs |
| Number of Lines | 10 lines |
| Clear Height | 142 ft. |
| Drill Line Size | 1 ¼ inch |
| Substructure Type | Box on Box |
| Substructure Manuf. | Drill Master |
| Rotary Table to Ground | 18 ft. 3 inches |
| Clear Working Height | 13 ft. 10 inches |
| Rotary Capacity | 900,000 lbs. |
| Setback Capacity | 400,000 lbs. |
| GNC | 1,200,000 lbs. |
| Rig Walking System | OWI Stealth Walker pin-on with Bi-directional walking system |

MUD SYSTEM

| | |
|-------------------------------|--|
| Mud Pumps | (2) FB-1600 triplex with 7500 psi fluid ends and 12-inch stroke, each driven by Joliet 1500 hp A.C. motors. |
| Charge & Mix Pumps | (2) Mission Magnum 6x5 and (2) Mission Magnum 6x5 centrifugal pumps. |
| Mud Tanks | Number of tanks – 2 Mud Tank capacity: 1000 bbls. Premix capacity: 133 bbls. Mix hopper: Sidewinder hopper. Agitators: (4) with 15hp motors. |
| Trip Tank | 90 bbls – single compartment with (1) 4x3x13 centrifugal pump. |
| Shale Shakers | Dual Derrick Flo-line Cleaner linear motion Hyperpool. |

BOP EQUIPMENT

| | |
|-------------------------|---|
| Annular | 11-inch 5000 psi. |
| Double Ram | 11-inch 5000 psi. |
| Accumulator | Advanced Pressure 6-station/200 gallon. |
| Accumulator Pump | 20 hp triplex & (2) air pumps |
| Backup N2 | 12 – 132 gallons total. |
| Choke Manifold | 4 1/16" 5000 psi X 2 1/16" 5000 psi with positive & adjustable choke. |

WATER & FUEL TANK CAPACITIES

| | |
|-------------------|-----------------|
| Water Tank | 500 bbls. |
| Fuel Tank | 10,000 gallons. |

TUBULARS

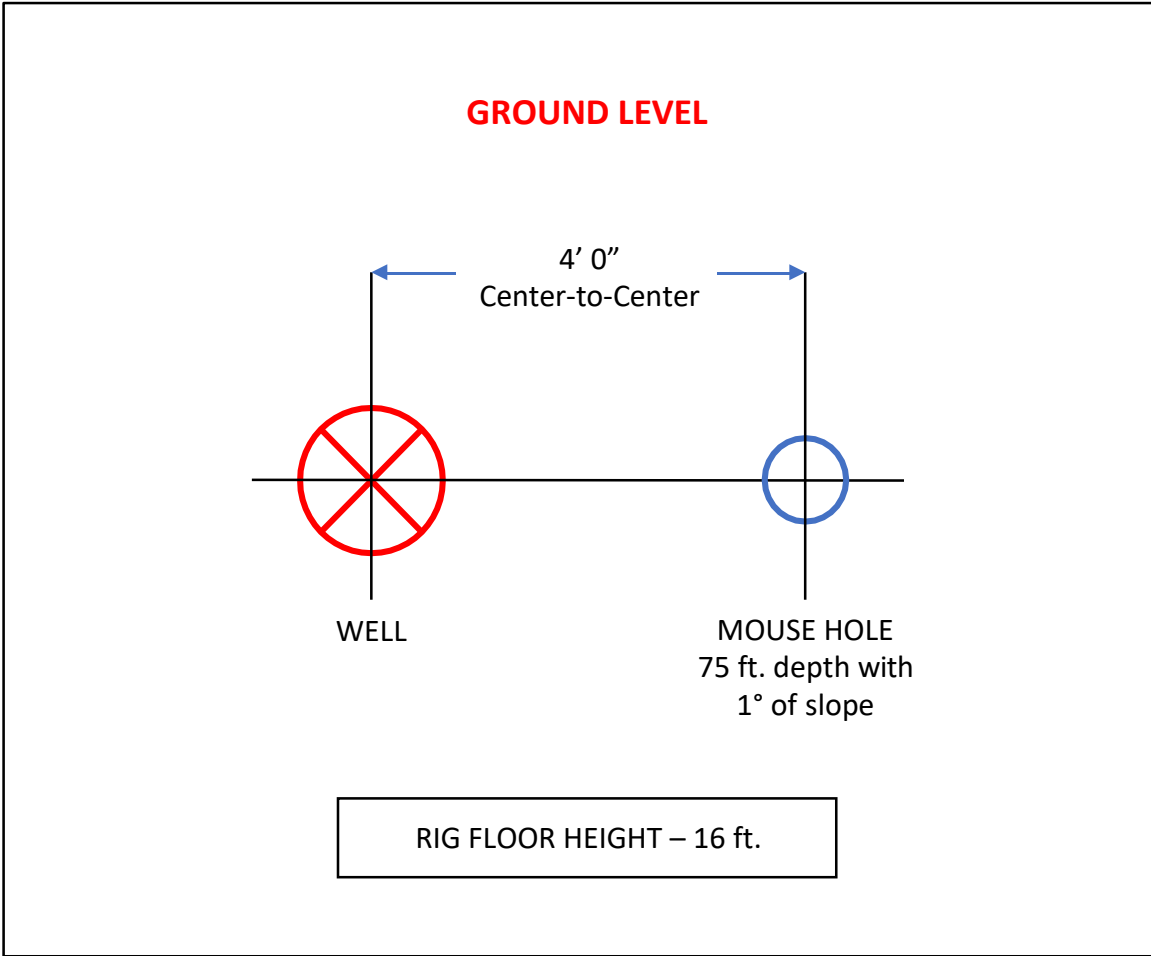
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|----------------------|----------|
| Drill Pipe | Optional |
| Drill Collars | Optional |

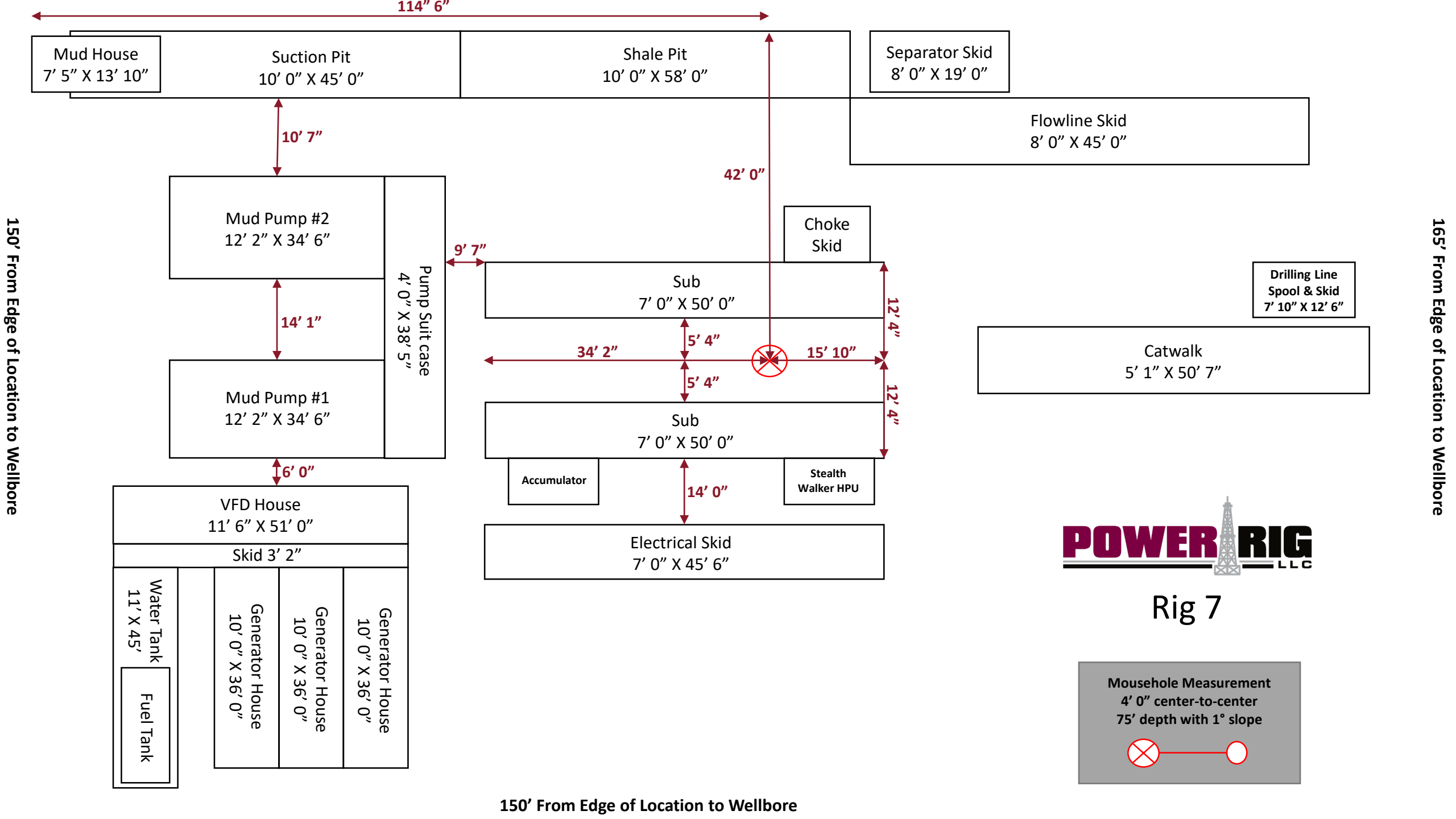
ADDITIONAL INFORMATION

| | |
|------------------|--|
| Doghhouse | 11' X 50' with heat & air conditioning. |
| Transport | Rig is designed to be rigged up and down faster and safer. |



Rig 7
Mouse Hole Dimensions





Rig 7

Mousehole Measurement
 4' 0" center-to-center
 75' depth with 1° slope

150' From Edge of Location to Wellbore



TDS-11SA

Top Drive

The World's Most Popular Top Drive

Quality matters.

“ We just did a maintenance comparison using the TDS-11SA for six months vs one of our competitor's. We spent \$4,800 on the TDS and \$29,876 on the competitor, not including downtime. That speaks for itself. ”

- Drilling Contractor

Rooted in the expertise of Varco, Hydralift, and National Oilwell, the TDS-11SA is the largest-selling single design in the history of top drives since their introduction in 1997.

The TDS-11SA sets the standard for dependability, performance and quality. Delivering 500 tons of hoisting capacity, 800 horsepower and 37,100 ft-lbs of continuous drilling torque, the effectiveness and established reputation of the top drive is unmatched within the industry. With over 2,000 TDS-11SAs delivered to-date, there is no disputing that it is the most trusted top drive on the market.

| | |
|----------------------------------|---|
| Drilling Motor Type | Baldor Reliance AC Induction Motors |
| Horsepower Rating | 2 x 400 HP |
| TDS Working Height | 19 ft (5,791 mm) |
| Weight | 28,000 lb (12,700 kg) |
| Transmission | |
| Gear Ratio | 10.5:1 |
| Lube | Force-fed, filtered, air-cooled |
| Drilling Parameters | |
| Maximum Speed | 228 RPM |
| Maximum Continuous Torque | 37,100 ft-lb (50,301 N-m) |
| Speed at Maximum Breakout Torque | 110 RPM |
| Maximum Breakout Torque | 65,000 ft-lb (88,128 N-m) |
| Maximum Makeup Torque | 55,000 ft-lb (74,570 N-m) |
| Static Lock Brake | 39,000 ft-lb (52,877 N-m) |
| Rating Capacities | |
| Hoisting and Rotating | 500 ton (453,592 kg) |
| Water Course | 3 in (76.2 mm) |
| Washpipe Packing | 7,500 psi (517 bar) |
| Pipe Handler | PH-75 |
| Torque Capacity | 75,000 ft-lb (101,686 N-m) |
| Connection OD | 4 in – 8½ in (101.6 mm – 215.9 mm) |
| IBOP Pressure Rating | 15,000 psi (1,034 bar) |
| Upper IBOP | 6% in API Reg. RH Box (remote operated) |
| Lower IBOP | 6% in API Reg. RH Pin/Box (manual) |
| Rotation/Orientation | 360°/Unlimited |
| Other | |
| Cooling System | Local Blower |
| Hydraulic Power | Onboard |
| Temperature Range | -40°C to +55°C (-40°F to +131°F)* |
| Casing Running Tool Ready | Optional |
| Elevator Links | 250, 350 and 500 ton API |
| Footprint | 65.2 in x 56.1 in (1,656 mm x 1,425 mm) |

*55°C derates the drilling torque 10%; 50°C is the standard operating temperature

Benefits

- Low cost of ownership for both operation and maintenance
- Established reputation of dependable performance and quality construction
- Versatile design: can be used as a portable or permanent unit; compact and lightweight; configurable; easily retrofitted into existing rigs

Key Specifications

- 800 HP
- 500 ton API-8C rated hoisting capacity
- 37,100 ft-lb continuous drilling torque at 110 RPM
- 55,000 ft-lb makeup torque
- Temperature range: -40°C to 55°C
- Available software enhancements: SoftSpeed II™, Twister™, Monkey Board Collision Warning System

Performance Curve

TDS-11SA Top Drive Performance at 55°C Ambient

