

# DRILLING RIG INVENTORY

**Rig Number:** 711  
Make & Model: Heartland HRI -700  
Year Manufactured: 2005 Type: Mobile Drilling Rig Telescoping Double  
Maximum Depth Rating with 4-1/2" 16.6 ppf Drill pipe: 12,000'  
Rotary Drive: Type and Size, Speed Range (rpm): Hacker 22" 0-150 RPM  
Approximate number of loads to move rig: 20

**Drawworks:**  
Main Drum:  
Hydromatic Brake: 224DR Cable Size: 1 1/8" Number of Clutches: 2  
Make & Model: Heartland Rig

Sand Drum: N/A Cable Size: N/A Cable Length: N/A

Engines: Make & Model: 2- Cat C -15 576hp Each

**Derrick:**  
Manufacturer: Heartland Height: 116' Weight Capacity: 410,000  
Maximum Number of Lines: 10 Last Inspection Date: 2/28/2005

**Top Drive:**  
Manufacturer: Tesco Description: HMI 250  
Capacity: 250 Ton 475hp Power Pack

**Iron Roughneck:**  
Manufacturer: Varco Model: ST80 C

**Substructure:**  
Height and Capacity: 14' 6" Rotary Beam Cap. 408,000 Set Back Cap225,000  
Height above base of substructure to underside of rotary beams: 11' 6"  
Windbreak on substructure: X Yes          No         

**Traveling Blocks:**  
Make & Model: TFI YG 180 Weight Capacity: 180 ton Number of Lines: 10

**Elevators:** Make & Model: 4 1/2 Wooley Tool Co. 175 Ton 3 1/2 Wooley Tool Co 150 Ton

**Catwalk:** Length & Height: Catwalk / V-door set up 43"H X 67"W X 57'L

**Pipe Racks:** Length & Height: 29 X 43 1/2"

**Drill Pipe:** Size, Amounts, Connections, Grade: 4 1/2 XH Grade E 16.6 # & 3 1/2 IF S135 13.3  
Last inspection date & footage since last inspected: current

**Drill Collars:** (Minimum quantity required for running manufactures maximum weight on bit for each hole size)  
Size (O.D. x I.D.): 6 1/2 X 2 1/4 Number: 20  
Last inspection date & footage since last inspected: current

**Pumps:** Make, Model, Input HP: Gardner Denver PZJ 9" 900 HP (Qty.2 (two))  
Engine Make & Model: Cat 3508  
Liner Size and Stroke Length: #1 6 1/2 X 9 #2 6 1/2 X 9  
Max. Continuous Operating Pressure: 3060 w/ 6 1/2 liner 4274 psi w/ 5 1/2 liners  
Pump Speed (spm): 130

**Steel Mud Pit:**  
Dimensions: 48'X9' 8" Capacity: 431 BBLs Number of Compartments: 5  
Shale Shaker Make & Model: Double Derrick FLC-503's  
Charge Pump Make & Model: Mission Magnum 4X5

**BOP's:** Make & Model: Shaffer Double Hydraulic Size: 11"  
Pressure Rating: 3000psi Date of Last Inspection: current

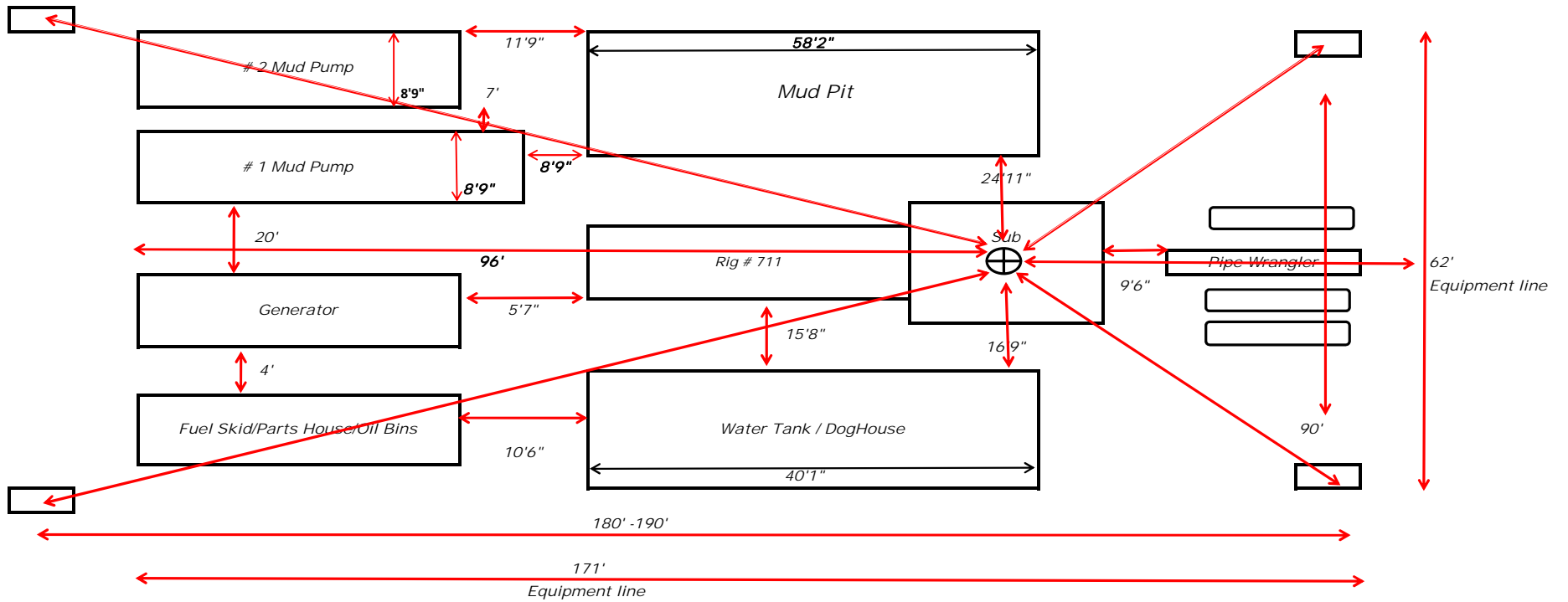
**Rotating Head:** Make & Model: Washington Rotating Head  
Estimated cost for stripping rubber: \$1450.00

**Accumulator:**  
Make & Model: Burnsco-Bison  
Capacity of Hydraulic Fluid: 250 Gal  
Number of Stations: 6 Number of Pressure Bottles: 8  
Hydraulic Pressure Source: Elec and driven triplex pump and air pump  
Electric Motor: 15 HP 1775 RPM 3 phase phrame 254 T Emerson Motor Co  
Gas/Diesel Engine: N/A  
Air/Hydraulic Pump: Air - N/A Hydraulic  
Date of Last Inspection: current

**Choke Manifold:**  
Valves:  
Make & Model: 3" Cameron  
Pressure Rating & Size: 3 1/8" 3000 psi 2 -1/16" 5000 psi  
Date of Last Inspection: current  
Chokes:  
Make & Model: Barton Valve Co. Type: Adjustable  
Pressure Rating & Size: 2" 5000 psi  
Date of Last Inspection: current

**Light Plant:**  
Voltage, Amperage, Watts: 480 volts 615 Amps 410 KW 512KVA  
Engine Make & Model: Cat 3406

**Drilling Recorder:**  
Make & Model: Pason EDR (electronic drilling recorder)  
Chart Type: 12 Hour X 24 Hour



Rig 711 Foot Print