

BRIEF SPECS - JACK UP RIG ENDEAVOUR – SPIRIT OF INDEPENDENCE



- Upgraded in 2004 & Refurbished in 2015
- Water Depths from 21 to 300 ft.
- Drilling Depth rating; 20,000
- Three (3) Mud Pumps
- 3,000 HP Drawworks
- Top drive, Varco TDS-4
- Living Quarters - 108 personnel

Drilling Vessel Description: Designed and constructed by UIE Shipbuilding Scotland in 1982 (modified in 1995, upgraded in 2004), the 410' independent leg/cantilever unit was built in accordance with the rules of the American Bureau of Shipping and is classified as an A-1 self-elevating mobile drilling unit

Type: MLT 116-C Cantilevered Jack-Up

Class: ABS + A1 self-elevating mobile drilling unit, 1980
Rules: USCG Requirement for Mobile Offshore Drilling Units

Design Operating Conditions: Maximum water depth (non-hurricane).....300'
Minimum water depth21'
Drilling depth..... 20,000'

Maximum Operating/ Environmental Conditions: Normal drilling:
Variable deck load 4238 Kips
Drilling load..... 8,890 Kips
Wind speed..... 100 Knots
Wave height..... 48'

Hurricane Survival: Water depth300'
Variable load..... 7129 Kips
Wind speed..... 100 Knots
Wave height.....59'

Drillfloor Loading: Rotary beam load1,250,000 lbs
Setback.....700,000 lbs
Combined hook and setback..... 1,950,000 lbs

Cantilever: • Capable of extending 60' beyond hull's stern transom w/ext
• Drill floor, skids transversely 15' from center, port or starboard
• Entire cantilever and drill floor designed to skid off the hull to facilitate work on large platforms or remote well bays

Legs: Three (3) Square K-Brace Truss type, 410' long

Rig Storage Capacities: Weight material and cement:
Bulk mud..... 5687 cu. ft
Bulk cement..... 4265 cu. ft
Sack storage..... 50 pallets

Rig Storage Capacities: Liquids:
Drilling mud.....1,843 bbls.
Drill water.....9,684 bbls.
Diesel fuel.....3,390 bbls.
Potable water.....1,493 bbls.

Elevating System: • MLT electronically driven rack and pinion system

Engine Generator Units: • Four (4) 1855 HP Caterpillar 3516B, radiator-cooled diesel engines, each driving an 1300 kW, 600 volt, 60 Hz AC generator
• One (1) 1300 HP Cummins KTA 3067, radiator-cooled engine driving an 880 kW, 600 volt AC generator—can be used as a standby or on main AC buss

Electrical Distribution: • Bautiel (5) bay SCR distribution system for efficient drilling, shipboard, drawworks, top drive and fire systems operations

Drawworks: • National 1625 DE driven by (3) GE 752 DC motors each rated at 1000 HP

• Two (2) catheads, 1-3/8 Lebus grooving, National Crown-omatic crown safety device, Elmagco device, and Elmagco 7838 Baylor brake

Derrick: • Continental Emsco (LTV)/BBC-160; 160' high x 35' base rated at 1,250,000 lbs static hook load; complete with adjustable hydraulic casing stabbing board, derrick climbing assistor, racking platform

Mud Pumps: • (3) National 12-P160 triplex pumps, 1600 HP continuous (2) GE 752 DC motors each, complete with pulsation dampeners

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- Rotary:** National D-495 with a 49.5" opening, independently driven by a GE 752 DC motor through a two-speed gear box producing 1000 HP whild delivering 41,390ft/lb max cont torque
- Top Drive:** Varco TDS-4: rated at 650 tons powered by a 1000 HP GE 752 hi-torque motor producing a continuous 45,500ft/lb @130rpm low and 29,100ft/lb @205rpm high gear
- Ezy-Torque:** EzyTorque
- Shale Shaker:** (4) MiSWACO Mongoose Pro

Degasser: Derrick centrifugal 6x8x4

Quarters: 108-person air-conditioned quarters complete with galley, mess hall, meeting rooms, recreation room, hospital room, bath facilities, change room, laundry and state rooms and office for rig manager and operator's representatives

Heliport: 73' nominal diameter designed Sikorsky S-61/ S-92 with tie down points

- Cranes:**
 - (3) MLT PCM-120 with 100' boom rated 100' boom rated at 72,800 lbs at a 24' radius and 7,200 lbs at a 100' radius
 - (1) National OS-435 crane to accommodate heavier loads; 120,000 lbs at 30'

Cementing Unit: BJ Unit is onboard; costs for the unit and associated equipment shall be for operator's account

- Life Saving and Fire Protection:**
 - (2) 60-person life boats, (1) fast rescue craft, (8) 25 man life rafts
 - NOVEC fire extinguisher system for engine room, SCR room and emergency generator room
 - All safety and fire protection equipment per USCG, ABS and MMS regulations

BOP Equipment: (All have safety H2S)

Diverter: 49.5" Velco Gray KFDJ" with hydro-control valves and overboard lines
3,000 psi (recharged per contract provisions)

Annular: 13-5/8" Hydril Type MSP5M; 5,000 psi

Double: 13-5/8" Cameron Type U; 10,000 psi

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Gate Valves: Four (2) manual and (2) hydraulic 4-1/16" Cameron Type F: 10,000 psi

Accumulator: CAD Type; 26 bottle@15 gal

3,000 psi closing unit with two (3) air pumps, a triplex electric-driven pump 3-1/16" 10,000 psi, with one (1) adjustable chokes and two (2) Swaco

Manifold: automatic choke

Handling System: Two (2) 38-ton hydraulic hoists with a BOP lift ring to install BOPs

Choke & Kill

Hoses: One (1) each

Note: Contractor will provide the initial size rams for contractor supplied drill pipe and one (1) set of shear rams. All replacement BOP rubber goods shall be recharged per contract.

