**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 depth: 21'
  - 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:
    - Variable load: 7129 Kips
    - Wind speed: 100 Knots
    - Wave height: 59'
- **Drillfloor Loading:**
  - Rotary beam load: 1,250,000 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:**
- **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-o-matic 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

- 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
BRIEF SPECS - JACK UP RIG ENDEAVOUR – SPIRIT OF INDEPENDENCE

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 while 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 (All have safety H2S)

BOP Equipment: Diverter: 49.5” Vetco Gray KFDJ” with hydro-control valves and overboard lines 3,000 psi (recharged per contract provisions)

Annular: 13-5/8” Hydrl Type MSP5: 5,000 psi

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

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

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

Accumulator: CAD Type; 26 bottle@15 gal

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