



IMPERIAL Rig Specifications

DESIGN:

ABS Classed Posted Inland Water Drilling Barge
Built McDermott Shipyard 1981, Upgrade 2004 and 2012

MAIN DIMENSIONS:

Length, Barge.....	205.5 ft.
Breadth, Barge.....	.80 ft.
Depth, Barge.....	14 ft.
Posted Deck.....	14 ft.
Barge Draft (normal operating condition)8 ft.
Drill Slot.....	42 ft. x 24 ft.
Height, Transit	68 ft.
Helideck rating.....	9.3 tons - For Bell 212

DESIGN CRITERIA:

Operating water depth (protected water).....	8 ft. to 24 ft.
Max. Rated drilling depth	25,000 ft.

STORAGE CAPACITIES:

Fuel oil	2,440 bbls
Drill water.....	2,916 bbls
Potable water.....	2,132 bbls
Liquid mud (Active).....	1050 bbls
Total Liquid Mud.....	3,665 bbls
Bulk tanks.....	4,600 ft ³
Sack storage	3,360 sacks

ACCOMMODATION:

Air conditioned cabins for 102 personnel (upgradable to 104 personnel).
8 x 25 man Inflatable Life Rafts

POWER EQUIPMENT:

Main Engines:	Three (3) EMD Model 16-645-E8 Engines – 6,900 hp total
Power Management:	Four (4) Bay ISC SCR System; Three (3) ITC 750kVA Transformer
Emergency Use:	One (1) CAT D6412T Engine - 680KVA

MOORING SYSTEM:

Anchor Winch:	One – LVT JUW 075 - 150,000 Lbs Single
Anchor Wire:	F3000, 1-1/2" IWRC 6X19 right lay.
Anchors :	Stevin 2 ton
Spud Cans:	4 – Pinning spud cans.

DRILLING EQUIPMENT:

Drawworks:	Gardner Denver 3000E Powered by Three (3) EMD D-79 motors with Elmagco 7838 Auxiliary Brake
Derrick:	Cantilever Dreco Mast – 160 ft. clear height x 30 ft. wide base, 2,000,000 pounds
Crown Block:	Dreco 750 short tons, 6 x 60" sheaves for 1-1/2 inch drilling line
Traveling Block:	Dreco, 750 tons, 7 x 60" sheaves for 1-1/2 inch drilling line.
Top Drive:	Varco TDS-4S 750 tons 1,000 hp GE 752 Electric Motor
Rotary Table:	National Model C-375 with EMD D-79 Electric Motor

BOP & DIVERTER EQUIPMENT:

BOPs & Diverter:	One 30" Diverter 1000psi MSP 30-1000 Hydril diverter. One 21-1/4" x 2,000 psi Annular. One 21-1/4" x 2,000 psi Double Ram BOP. One 13 5/8" Hydril 5M Annular. One 13-5/8" Cameron 15M Type "U" Double Ram BOP. One 13-5/8" Cameron 15M Type "U" Single Ram BOP
BOP Control System:	Koomey accumulator Model T/20200-3S unit with 370 Gallon capacity with Remote control panel at Drillers Cabin, Tool pusher Office.
BOP Crane:	Two (2) 35 Ton BOP Handling Crane

MUD CIRCULATION SYSTEM:

Mud Pumps:	Two (2) White Star Quad 1600 pump with two (2) EMD D79 DC Traction motors, 7,500psi max operating pressure.
Shale Shakers:	Four (4) Derrick 500 Series Shale shakers
Desander:	One (1) Derrick Desander with 2 x 12" cones 1,000 gpm
Desilter:	One (1) Derrick Desilter with 20 x 4" cones 1,250gpm
Degassers:	One (1) Derrick Vertical Degasser

OTHER EQUIPMENT:

Cementing Unit:	Client Lease item
Cranes:	One (1) American Seahorse Model 160, 100 ft. Boom rated at 25 short tons @ 20 ft. radius One (1) Unit Mariner Model 280-H, 70 ft. Boom rated at 13 short tons @ 20 ft. radius
Water Maker:	One (1) Alpha Laval Water Maker - JWP-36-C125-DE
Air Compressors:	Three (3) Quincy Model QSI-500 – 125 hp = 500 ACFM @ 125 psi Screw Type Compressors
Air Dryer:	Two (2) Dominick Hunter Model DX110 – 700 CFM air dryer – refrigerated system
Cold Start Comp:	One (1) Ingersoll Rand Model XP375WIR Simplex Reciprocating Air Compressor powered by a Lister Diesel engine, rated 375 CFM @ 125 psi.

Anti-pollution Equipment: One Hamworthy OW-3500

Oily Water Sep. Compass Water Solution - US1000G - ULTRA SEP MODEL : 100-G

COMMUNICATIONS

Radio Equipment: Furuno Marine VHF unit, Two (2) GMDSS SART units, One (1) EPIRB unit, One (1) Navtex Transceiver, One (1) Furuno Model 16-SSAS Inmarsat unit, and Ten (10) Marine Walkie Talkie Radios with chargers