



ZAGREB 1

**Modu Column Stabilized drilling unit:
Semi-Submersible drilling unit**



UNIT DESIGN:

IFP - F Neptune - Pentagone - 91
Year of construction: 1977
Builder: Dunkerque shipyard, France
Year of upgrade: 1998/99; 2008

CLASSIFICATOR:

Lloyd's Register of Shipping

MAIN DIMENSIONS:

Length overall: 103,4 m
Width overall: 106,3 m
Height overall: 110,6 m
Height from keel to main deck: 40,5 m
Main deck width: 28 m
Main deck length: 44,2 m
Diameter of main columns: 8,5 m
Diameter of pontoons: 22 m
Height of pontoons: 7,5 m

PERFORMANCES:

Maximum water depth: 450 m
Maximum drilling depth with DP 5": 6000 m
Drilling draught: 22 m
Transit draught: 7,5 m / 16 m
Survival draught: 16 m / 18 m

VARIABLE LOAD:

2 000 t (in drilling mode)
1 500 t (in towing mode)

STORAGE CAPABILITIES:

Fuel: 804 m³
Drilling water: 804 m³
Potable water: 514 m³
Liquid mud: 401 m³

Main deck width: 28 m
Bulk mud: 180 m³
Bulk cement: 180 m³
Pipe racks max. capacity: 700 t

MOORING EQUIPMENT:

Ten (10) main anchors
Nine (9) piggy back anchors
Ten (10) anchor winches Brissonneau & Lotz
Driven by el. Motors 20 x 77 kW, 125 t rated pull LS, 351 HS

DECK CRANES:

Two (2) main cranes Patriot Ser. 198 model 200

WATER DESTILATION UNIT:

One (1) Rochem Ro 7100 - STB -100 S
max. capacity: 100 m³/day

POWER PLANT:

Diesel engines: five (5), Cat 3516 DI, 5x1,550 HP
Generators: five (5), Cat SR-4, 5x1,400 kW, 600 V, 3 phase, 60 Hz
SCR System: seven (7) S&S Powerdrill 2000
Emergency power generator: Cat CAT.3508 TA, 600 kW, AC - 560 kVA, 440 V, 800 A

HELICOPTER DECK:

Accommodates Sikorsky S-61

LIVING QUARTERS:

95 as Drilling Rig

DRILLING EQUIPMENT:

Derrick: U.I.E. all bolted, height: 56m, base: 11x11m
Hook load capacity: 476 t
Drawworks: Gardner Denver - 3000 E, 3000 HP, 3x
J.Schneider CNF570 590 kW each
Rotary table: National C-495, 49 1/2", independent drive
Top drive: Varco TDS 4S, capacity: 650 t
Mud pumps: three (3), Emsco triplex FB 1600
Shale shakers: 4 x Brandt Linear Motion VSM 300
Mud cleaner: Swaco 6T x 4
Degasser: Swaco
Marine riser: Cameron RF Type 21" OD x 0.625" wall 50 ft long
Riser tensioners: 6 x 60000 lbs Rucker Shaffer & 4 x 80000 lbs Rucker Shaffer
Guide line tensioners: two+four (2+4), Rucker Shaffer ext.life model, nom. capacity each 7.25 t
Drilling string motion compensator: Rucker Shaffer type 18/400R-BO-E

BOP STACK DESIGN:

BOP Stack 18 3/4" -10,000 psi H₂S service
-collet connectors with H-4 profile
-Cameron triple type "TL"
-Cameron "D" dual annular

ACCUMULATOR DESIGN:

Cameron, type bladder, triplex pump (1), air driven pumps (4)

CEMENTING UNIT:

Halliburton, model
Twin HT-400

