

KS MEDSTAR 1

GENERAL

RIG NAME : KS MEDSTAR 1
 RIG TYPE : Jack-up, Independent Legs, Cantilever
 RIG DESIGN : MODEC 200C-45
 YEAR BUILT : 1980, upgraded in 2011
 BUILDER : Mitsui, Kanrei Shipyard Japan
 CLASSIFICATION : ABS, +A1 Self Elevating Drilling Unit
 FLAG : Liberia

MAIN PARTICULARS

HULL LENGTH : 203 ft
 HULL BREADTH : 190 ft
 HULL DEPTH : 21 ft
 TRANSIT DRAFT : 14 ft
 NO. of LEGS/TYPE : 3, Triangular / Truss Type
 LEG LENGTH : 404 ft (including spud cans)
 347 ft (usable below hull)
 CANTILEVER REACH : 40 ft longitudinal
 10 ft transverse (each side)
 ACCOMMODATION : 100 POB
 HELIDECK : Suitable for Sikorsky S-61
 MOORING SYSTEM : 4x 36,000 lbs pull winch
 700m x 1-1/2" wire
 4x 10,000 lbs USN LWT anchors

STORAGE CAPACITIES

FUEL OIL : 2,837 bbls
 DRILL WATER : 2,360 bbls
 POTABLE WATER : 2,239 bbls
 LIQUID MUD (TOTAL) : 1,886 bbls
 BARITE/BENTONITE : 4,500 ft³
 BULK CEMENT : 4,500 ft³
 SACK STORAGE : 1,200 sacks

JACKING SYSTEM

MAKE/MODEL : National NS 400, pinion gear
 NO. OF PINIONS : 18 per leg
 MAXIMUM JACKING LOAD: 200 mt per pinion
 JACKING SPEED : Raising 1 ft/min; Lowering 1 ft/min

OPERATIONAL CAPABILITIES

WATER DEPTH : 300 ft
 DRILLING DEPTH : 20,000 ft (max rating)
 VARIABLE LOAD : 4,942 kips (2,471 tons) DRILLING
 3,225 kips (1,613 tons) TRANSIT
 2,554 kips (1,277 tons) SURVIVAL
 3,225 kips (1,613 tons) JACKING

CRANES

PORT : 1x OS-215, Boom 100 ft
 SWL 50 st @ 25 ft
 STARBOARD : 1x OS-435, Boom 120 ft
 SWL 55 st @ 25 ft



POWER SUPPLY SYSTEM

ENGINES NO/MODEL : 4x CAT 3516
 ENGINES POWER : 4x 1,814 hp (7,256 hp)
 POWER GENERATORS : 4x CAT SR4B 1,170 kW each
 EMERGENCY POWER : 1x CAT D-379, 600 hp

DRILLING EQUIPMENT

DERRICK MAKE/MODEL : Dresco D12, Beam Leg Bolted
 DERRICK DIMENSIONS : 160 ft x 30 ft x 30 ft
 DERRICK STATIC HOOK LOAD : 1,000,000 lbs
 DRAWWORKS MAKE/MODEL: Oilwell E2000, Drill line 1-1/2"
 DRAWWORKS POWER : 2,000 hp
 TRAVELLING BLOCK : Oilwell B-500, 500 st 6 sheaves
 ROTARY TABLE : Oilwell C-375, 37-1/2" 590 st
 TOP DRIVE : Varco TDS-4H 1,000 hp with PH-60
 pipe handler, 550 st capacity
 29,100 ft.lbs. high gear, 45,500 ft.lbs.
 low gear

WELL CONTROL EQUIPMENT

DIVERTER : Regan KFDJ 30" 2,000 psi
 BOP SPHERICAL : 1x Hydril MSP 21-1/4" 2k psi
 : 1x Shaffer 13-5/8" 5k psi
 BOP RAM : 1x Church Energy 21-1/4" 2k psi dbl
 1x Shaffer 13-5/8" 10k psi double
 1x Shaffer 13-5/8" 10k psi single

MUD SYSTEM

WORKING PRESSURE : 5,000 psi
 MUD PUMP : 3x Oilwell A1700PT 1,600hp
 SHALE SHAKERS : 4x Shale Shakers
 DESANDER : 3x 10" cones
 DESILTER : 20x 4" cones
 DEGASSER : 1x Swaco V255

KS DRILLING

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