

KS ORIENT STAR 2 (Hull 408)

GENERAL

RIG NAME : KS ORIENT STAR 2
RIG TYPE : Jack-up, Independent Legs, Cantilever
RIG DESIGN : LeTourneau 240-C, Workhorse Class
YEAR BUILT : 2015
BUILDER : COSCO, Nantong Shipyard
CLASSIFICATION : ABS, A1 Self Elevating Drilling Unit,
IMO MODU Code 1989 (2001
Consolidated Edition)
FLAG : Marshall Island

MAIN PARTICULARS

HULL LENGTH : 228 ft
HULL BREADTH : 220 ft
HULL DEPTH : 26 ft
TRANSIT DRAFT : 18.5 ft
NO. of LEGS/TYPE : 3, Quadrangular Shape / Truss Type
LEG LENGTH : 536 ft (including spud cans)
470 ft (usable below hull)
CANTILEVER REACH : 80 ft longitudinal
15 ft transverse (each side)
ACCOMMODATION : 150 POB
HELIDECK : As per CAP 437, Sikorsky S-61N or S-92
MOORING SYSTEM : 4x 50,000 lbs pull winch
4x 5 mt anchors

STORAGE CAPACITIES

FUEL OIL : 5,145 bbls
DRILL WATER : 11,421 bbls (incl. combo tanks)
POTABLE WATER : 1,725 bbls
LIQUID MUD (TOTAL) : 4,790 bbls
BASE OIL : 404 bbls
BRINE : 404 bbls
BARITE/BENTONITE : 6,922 ft³
BULK CEMENT : 6,922 ft³
SACK STORAGE : 5,000 sack

JACKING SYSTEM

MAKE/MODEL : LeTourneau 440-KIP Elevating System
NO. OF PINIONS : 24 per leg
MAXIMUM JACKING LOAD: 440 kips (200 mt) per pinion
JACKING SPEED : 1.5 ft/min (0.46m/min) maximum

OPERATIONAL CAPABILITIES

WATER DEPTH : 400 ft
DRILLING DEPTH : 35,000 ft
VARIABLE LOAD : 8,886 kips (4,030 mt) DRILLING
2,878 kips (1,305 mt) TRANSIT
5,386 kips (2,443 mt) SURVIVAL
2,878 kips (1,305 mt) JACKING

CRANES

PORT, STBD, AFT : 3x MLT PCM-220SS
Boom 140 ft, 75 st at 32 ft radius
PIPE HANDLING : 1x NOV OC1891PL, SWL 3.8 st @ 82 ft



POWER SUPPLY SYSTEM

ENGINES NO/MODEL : 5x CAT 3516C HD
ENGINES POWER : 5x 2,150 hp (10, 750 hp)
POWER GENERATORS : 5x KATO 2,150 kVA each
EMERGENCY POWER : 1X CAT 3516C HD (2,150 hp)

DRILLING EQUIPMENT

DERRICK MAKE/MODEL : NOV, Drecto 175D
DERRICK DIMENSION : 175 ft x 36 ft x 36 ft
DERRICK STATIC HOOK LOAD: 2,000,000 lbs
DRAWWORKS MAKE/MODEL: NOV ADS-10Q, drill line 2"
DRAWWORKS POWER : 4,600 hp (4 x 1,150 HP)
TRAVELLING BLOCK : DRECO, 1000 st, 8 sheaves, 72"
ROTARY TABLE : NOV RST 49-1/2, 1000 st
TOP DRIVE : NOV TDS-1000A, 1150 hp
1000 st 62,250 ft-lbs continuous
95,000 ft-lbs max intermittent torque
PIPE HANDLING SYSTEM : NOV PRS-4i pipe racking system +
dedicated pipe handling crane

WELL CONTROL EQUIPMENT

DIVERTER : VETCO-KFDJ-500 49-1/2
BOP SPHERICAL : 1x Shaffer Spherical 18-3/4" 10K psi
1x Shaffer Spherical 21-1/4" 2K psi
BOP RAM : 2x T3 6012 13-5/8" 15K double
1x T3 6012 21-1/4" 2K double

MUD SYSTEM

SYSTEM WORKING PRESSURE : 7,500 psi
MUD PUMP : 3x NOV 14-P-220 Triplex pumps
SHALE SHAKERS : 5x Brandt VSM 300
DESANDER : 3x 12" cones
DESILTER : 20x 4" cones
DEGASSER : 1x Brandt DG-10

KS DRILLING

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A member of KS Energy Limited