



ENERGY EMERGER

Jack Up
Rig and Equipment Overview



RIG SPECIFICATIONS

GENERAL

Rig: Energy Emerger

Flag: Liberia

Owner: Energy Emerger Ltd

Year Built: 2017

Builder: Shanghai Waigaogiao Shipyard (SWS) Company Limited, China Design: GustoMSC CJ46-X100-D, self-elevating cantilever jack-up

Classification: ABS ★ A1 Self Elevating Drilling Unit Accommodation: 120 beds + 2 beds in sickbay

MACHINERY

Main Power: 5 x Caterpillar 3516C HD 2150 bhp (1,600 bkW) diesel engines: 5 x Hyundai Ideal generator sets, 690V, 60 Hz, 1,534 kW each; 2287 kVA **Power Distribution:** ABB variable frequency drive power management

system, 690V/480V motor control centers

Emergency Power: Cummins CCFU900-E with marine generator,

1,370 kW; 1125 kVA; 480 VAC

DRILLING EQUIPMENT

Derrick: NOV 170 ft x 35 ft x 40 ft; 1,500,000 lbs maximum rated static hook load with 14 lines; Crown Block - NOV 750 ton with 6 x 60" diameter cluster sheaves, 2 x 60" diameter fastline sheaves and 2 x 60" diameter deadline sheaves, all sheaves grooved for 1-5/8" wireline

Drawworks: NOV automated ADS-10T. 3.200 hp driven by 3 x DM27A HN A 1,150 hp AC induction motors; NOV water/air cooled multi-plate, fail safe disc

Rotary: NOV RST 49-1/2" hydraulic operated rotary support table with dynamic slip ring, 49-1/2" opening, with up to 15 rpm intermittent rotary speed Top Drive: NOV TDS-8SA, driven by 1 x GE GEB-20 1,150 hp AC induction motor with 62,500 ft-lbf continuous drilling torque @ 95 rpm, PH-100 pipe handler Traveling Block: NOV Dreco 760TB-750-8C with 7 x 60" sheaves grooved for 1-5/8" wireline, 750 ton capacity

Pipe Handling: NOV ST-120 Iron Roughneck; PS-30 Power Slips; BX Hydraulic Elevator; NOV PRS-8i "Foxhole" Pipe Racking System with off-line drill pipe/drill collar stand building system; NOV CWS-P Pipehandling Catwalk

Cementing: Schlumberger CPS361 15,000 psi WP recirculating cement mixing unit with CBS 355 mixing tank system

Mud Pumps: 3 x NOV 14-P-220, 2,200 hp each; 7,500 psi WP each with

2 x Mattco A7520 7,500 psi WP pulsation dampeners each

Return Mud Treatment System: 1 x Derrick Flo-line Primer II unit; 4 x Derrick Triple Hyperpool shale shaker unit with flow control divider; 1 x Derrick 3 - 10" cone in-line Hydrocyclone Desander, 1 x Derrick Mud Cleaner, 1 x Derrick 20 -4" cone in-line Desilter; 1 x Derrick Vacu-Flo 1200 degasser; 1 x 48" Brandt mud/gas separator

Mud Mixing System: 2 x 105 ft³ surge tanks, surge tank feeder and cyclone dust collector mounted over 2 x venturi mud mixers with hoppers:

1 x NOV Big Bag Unit on main deck feeding mud hopper below deck

Mud Tank System: Usable volume - 4428 (4,014 (Pits 1-8), 150 bbls (Mud Process pits), 264 (Slug pits))

Other Tank Volumes: Drill Water - 22,325 bbls; Base Oil - 1,250 bbls; Potable Water – 3,675 bbls; Fuel Oil – 3,645 bbls; Completion Brine – 1,250 bbls; Total Pre-load – 70,440 bbls

Bulk Mud/Cement Storage Volumes: Total Volume - 14,800 ft³; consisting of 4 x 1,850 ft³ bulk barite P-tanks – 7,400 ft³ total and 4 x 1,850 ft³ bulk cement P-tanks - 7,400 ft3 total

Sack Room Storage: 5,000 sacks

MAIN DIMENSIONS/ DRAFT/DISPLACEMENT

Length: 214 ft; Breadth: 203.4 ft; Hull Depth: 26.2 ft

Legs: 3 x 503.3 ft with 45.3 ft diameter spud cans; leg below hull - 440 ft

Cantilever: 70 ft lateral; 20 ft transverse / side (70' x 40' total cantilever envelope)

Transit Draft: 16.4 ft load line Transit Displacement: 30,464 kips

OPERATING PARAMETERS

Max Water Depth: 375 ft Max Drilling Depth: 30,000 ft

Survival Conditions: Wind - 100 knots; waves - 45 ft; period - 15.0 sec @ 375 ft WD

and 15 ft of leg penetration with max elevated weight of 24,230 kips

CAPACITIES

Variable Load: 7,714 kips drilling (includes combined cantilever load)

5,289 kips jacking (includes combined cantilever load) 5,289 kips afloat (includes combined cantilever load)

Total Cantilever Variable Load Capacity: 2,268 kips

Drilling Load Capacities: static hook load with top drive: 1,500,000 lbs;

rotary: 1,500,000 lbs; rig floor setback: 1,120,000 lbs

BOP & CHOKE MANIFOLD SYSTEMS

18-3/4" BOP system: 1 x 18-3/4" 10,000 psi NOV Shaffer Spherical BOP: 2 x 18-3/4" 15,000 psi NOV Shaffer NXT-M double hydraulic operated ram preventers

Choke and Kill Manifold: NOV Shaffer 3-1/16" 15,000 psi H2S trim with

2 x hydraulic actuated automatic chokes and 2 x manual chokes

Diverter: AVERT TEK Expanded Bore diverter, 500 psi with 12" Nominal ID port/stbd overboard lines

Control System: NOV Koomey BOP and diverter hydraulic control system consisting of 750 gal accumulator reservoir capacity

BOP Handling: 150 mt handling system consisting of 2 x 75 mt air operated chain hoists

TUBULARS

Drill Pipe: 7,000 ft x 5-1/2", 24.7 lb/ft, Grade HS3-125 15,000 ft x 5-1/2", 21.9 lb/ft, Grade HS3-125 5,000 ft 4" 15.7 lb/ft., Grade CYX-105

Hevi-wate Drill Pipe: 40 joints x 5-1/2"; 35 joints x 4"

Drill Collars: 10 joints x 9-1/2"; 21 joints x 8-1/4"; 30 joints x 6-1/2"; 24

joints x 4-3/4"

ADDITIONAL EQUIPMENT

Craneage: 3 x Favelle Favco Model 7.5/10K pedestal crane (port side, port aft and starboard) with 135 ft (41.2 mtr) boom, 50 mt capacity (onboard) @ 32.8 ft (10 mtr) radius and 25 mt capacity (offboard) @ 32.8 ft (10 mt) radius with 30 knot wind speed and 1.5 mtr sig. wave height; 1 x knuckle boom crane (cantilever pipe deck), 12 mt capacity (max) and 3.2 mt capacity with gripper head (2-7/8" to 20" pipe sizes) Jacking System: GustoMSC rack & pinion system with 18 x 896 kips (max) elevating units per leg; jacking speed: 1.5 ft/min (hull lifting), 2.2 ft/min (leg lifting) Helideck: S-61N/S-92N; steel octagonal shape, 72.8 ft diameter (D-value) CAP 437 compliant

Lifeboats/Life Rafts: 3 x 60-man lifeboats, SOLAS approved; 6 x 20 man life rafts, SOLAS approved

Conductor Pipe Tensioning System: TSC; 225 mt (tension capacity); 4 lift points; 14" (350mm)

Feb. 2023 (Rev. 1)