



Jackup Rig

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Jackup Drilling Rig



GENERAL Class : ABS Notation : ABS #A1 Self-Elevating Drilling Unit, 2012, #CDS, CRC		FIRE FIGHTING & SAFETY Fire Fighting : 2 x pumps/w mech. seals Life Boat : 2 x 87 and 1 x 53 person/diesel drive/speed≥6 knot Life Rafts : 6 x 25 men																																																	
PRINCIPAL DIMENSIONS Length o.a. : 70.358m Beam o.a. : 76.00m Depth moulded : 9.45m Transit Draught : 6.694m Hull Material : Welded Steel Construction, AH36 No. of legs : 3 Leg length : 166.98m Spud can diameter : 17.985m Spud can height : 5.945m		HELIDECK 1 x Heli-deck suitable for Sikorsky S-92 Helicopter																																																	
Design Operating Conditions Water depth : 121.92m Max Wave Height : 22 m Max Wind Velocity : 36.01 m/s Max Air Gap : 19.81m Penetration : 3.05m Variable Load : 3,776T Temperature : -20°C-50°C (For Structure)		NAVIGATION EQUIPMENTS Including electronic telecommunication system, radio telecommunication equipment, sensing, indicating and control equipment in accordance with the regulatory body requirements.																																																	
Deck Design Loads Main Deck(Inside Pipe Rack) : 2.64T/m ² Main Deck(Outside Pipe Rack) : 2.08T/m ² Cantilever Deck(Inside Pipe Rack) : 2.64T/m ² Cantilever Deck(Outside Pipe Rack) : 1.32T/m ² Drill Floor(Working Areas) : 1.95T/m ² Drill Floor(Setback Areas) : 22.5T/m ² Quarters' Deck : 0.46T/m ² House Tops : 0.73T/m ² Mud Pits : 10.25T/m ² Machinery Space : 1.32T/m ² Sackstores : 2.64T/m ²		COMMUNICATION EQUIPMENT(GMDSS) 1 MF & HF (SSB) radio communication system (400W) which cover the requirements of GMDSS for Ocean Areas A1, A2 and A3 5 Two way radio Telephone portable 8 VHF radiotelephone Including Cranes and Lifaboats 5 Radar Transponder for use in Search and Rescue Operations (SART); Complies with GMDSS, IMO/SOLAS. 1 EPIRB for GMDSS 406.0 MHz. REQUIREMENT 6 Standard Communications brand handheld Marine VHF-FM, Rated Intrinsically Safe. 6 Standard Communications brand handheld Marine radio, UHF-FM, Intrinsically Safe, 8 channel capacity with 4 most used channels preprogrammed 1 Inmarsat-F Ship Earth Station 1 Non-Directional Aircraft Beacon 1 Navtex Receiver / Printer for dedicated reception at 518 KHz; meets SOLAS, IMO, GMDSS with kit to include Active Antenna 1 GPS, eight outputs 1 Aircraft Base Radio Panel Mount Transceiver, VHF-AM, 25 Watts output. 2 Aero VHF talkback 1 Clock with three hands, silence and battery. 1 MF&HF (SSB), 400W for Back-up, installed in communal drilling office. 1 Inmarsat – C (EGC receiver)																																																	
MAJOR MACHINERY > Main engines and Generators: Caterpillar 3516C HD Offshore Generator Set 6 sets Cat 3516C HD Engine 1,913KVA @ 1,200rpm 690V, 60Hz, 0.8pf, 3 Phases. > Emergency : One Diesel Driven Emergency Generator Generator Set CAT C32: 1 set Radiator-Cooled Engine 1,137kVA @ 1,800rpm 480V, 60Hz, 0.8pf, 3 Phases. > Jacking System : NOV-BLM integrated > Rack Chock : F&G integrated > Fuel Purifier : Two (2) ALPHA-LAVAL or equal. > Oily Water Sep : 5m ³ /h, the max oil content<15ppm. > Sewage Plant : 1 x 140 man capacity. > Ballast System : 3 x Raw water tower pumps 1 x Preload pump > FW Generator : 2 x RO type Parker or Equivalent > Air Compressors : 3x Service air compressor with sequence module, approx. 0.85 MPA each 1 x Cold start air compressor mechanical driven > Cargo Pumps : 2 x Fuel oil transfer pumps, 1 x Diesel oil service pump 1 x Dirty oil pump		2 ACCOMMODATION The accommodation and mess facilities are fit for 140 persons. The accommodation shall follow ILO No. 92 and 133, Crew Accommodation and HSE Guidance of Schedule 1 of the Offshore Installations and Wells (Design and Construction, etc.) Regulations 1996 and be able to house 140 men in 1-man and 2-men cabins.																																																	
		REFRIGERATED STORAGE CAPACITY Cold Store : 1 x approx. 19.3m ³ walk in Freezer Chiller : 1 x approx. 16.3 m ³ walk in Chiller Room Provisions : 1 x approx. 22.08 m ³ walk in Provisions Room																																																	
		DECK MACHINERY Deck Crane : 2x37m, 50ton@7.5m; 1x37m, <u>60ton@7.5m</u> Anchor System : 4x400Kn anchor winch. Anchors : 4 x Anchors, 7.5Ton each Towing Gear : Towing bracket SWL 225ton.																																																	
		STORE CAPACITIES <table border="1"> <tr><td>Fire Water Buffer Tank</td><td>759</td><td>m³</td></tr> <tr><td>Diesel Fuel</td><td>660</td><td>m³</td></tr> <tr><td>Drill Water</td><td>1584</td><td>m³</td></tr> <tr><td>Potable Water</td><td>545</td><td>m³</td></tr> <tr><td>Ballast or Preload</td><td>13,654</td><td>m³</td></tr> <tr><td>Bulk Mud and/or Cement</td><td>500</td><td>m³</td></tr> <tr><td>Sack Stores</td><td>5,000</td><td>Sacks</td></tr> <tr><td>Active and Reserve Mud Pits</td><td>745</td><td>m³</td></tr> <tr><td>Slugging Pit</td><td>30.0</td><td>m³</td></tr> <tr><td>Brine</td><td>213</td><td>m³</td></tr> <tr><td>Return Pits, Sand Trap, LATs</td><td>91</td><td>m³</td></tr> <tr><td>Base Oil</td><td>213</td><td>m³</td></tr> <tr><td>Trip Tank</td><td>7.0</td><td>m³</td></tr> <tr><td>Stripping Tank</td><td>0.9</td><td>m³</td></tr> <tr><td>Skimmer Tank</td><td>20</td><td>m³</td></tr> <tr><td>Pipe Rack - Cantilever</td><td>453</td><td>Sq. meters</td></tr> </table>		Fire Water Buffer Tank	759	m ³	Diesel Fuel	660	m ³	Drill Water	1584	m ³	Potable Water	545	m ³	Ballast or Preload	13,654	m ³	Bulk Mud and/or Cement	500	m ³	Sack Stores	5,000	Sacks	Active and Reserve Mud Pits	745	m ³	Slugging Pit	30.0	m ³	Brine	213	m ³	Return Pits, Sand Trap, LATs	91	m ³	Base Oil	213	m ³	Trip Tank	7.0	m ³	Stripping Tank	0.9	m ³	Skimmer Tank	20	m ³	Pipe Rack - Cantilever	453	Sq. meters
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DRILLING PACKAGE

HOISTING, ROTATING EQUIPMENT

- Derrick Hook Load: 1000 Short Ton.
Height: 170'
Base :40'x40', Crown: 18'x18'
Wind loading: Per API 4F
- Traveling Block: 1000 Short Ton, 7x72" sheaves,
2" sheave grooving.
- Top Drive: 1150 HP GE B20AC Motor Driven
Hook Load: 1000 Short Ton
Working Pressure: 7500 Psi
- Rotary Table: Hydraulic Driven, 49 1/2" opening
Load: 1000 Short Ton
- Drawworks: Power: GE 1150HP AC Motor x 3
Hook Load: 1000 Short Ton @ 14 lines
Primary Breaking : Regenerative Breaking
Secondary Breaking: Eddy Current Break
The Third Breaking: Disc Break

PIPING HANDLING EQUIPMENT

- PDPH: T type: Knuckle Boom Crane
SWL: gripper: 4.5 mT @ 22m, Yoke: 3.5mT
Yoke size: 2 7/8"-26" tubular
- Catwalk Machine : Max load : 20mt Distributed In Skate
SWL Trolley: 3.5 mT
- Mouse Hole : 60" Hydraulic Mouse Hole, SWL: 10mT
- Iron Roughneck: Multiframe Type
Tubular size: 3 1/2" - 9 3/4"
- Standbuilder Arm: SWL: 3.2mT HTV, 6.4mT Vertical above
mouse holes
Pipe range : 3 1/2" through 20"
- Bridge Crane: Lifting: 3 1/2" - 9 3/4", SWL 11.5mT
- Lower Guiding Arm: Guiding 3 1/2" - 9 3/4"

DRILLING FLUID SYSTEM

MUD CONDITIONING EQUIPMENT

- Shale Shaker : 4x Derrick® Flo-line® Cleaner
Model # FLC 513VE
- Mud Cleaner: 1x Derrick® Flo-line® Cleaner Model
FLC 513VE 3-20
- Degasser: 2x Derrick Atmospheric/Centrifugal
Degasser, ACD-1500

HIGH PRESSURE MUD SYSTEM

System working pressure: 7,500 Psi
System test pressure: 11,250Psi

MUD PUMPS

3 X Work Force -2200hp triplex single mud, Triplex
Mud pump drive motors/pump: 1
-Motor type: GE/ Fluid end type
-Maximum working pressure: 7,500psi 11,250psi
-Test pressure: Supersonic
Pump stroke counter type: 4-1/16" & 10" for mud pump
Discharge/suction line ID:
Mud pump pulsation dampener type: Diagram Nitrogen type
Reset Relief Valve: 3" Reset Relief Valve
Working flow rate per pump at 90% of max SPM:
Piston Range: 6 1/2"

BULK SYSTEM

- P-Tanks 64 m3 (total volume) each, incl. PSV, pressure
indicator, High level sensors, 2 x manway, 1 x load cells, 1 mm corr.
Allowance, internal and external ladders Diverter : GE Vetco Gray
VFDJ 500 Psi Hydraulic Type

➤ Dust Cyclon Collector:

2 m3 each, Incl. PSV, Valve, pressure indicator, High level sensors

➤ Mud Mixing

➤ Sack Cutting Unit

Complete unit with sack pallet lifting table, dust filter unit, dosing screw
conveyor, lifting screw conveyor, bidirectional
Screw conveyor, empty sack waste bag and local control panel

➤ Mud Venturi Mixers

2 x Step 6" Venturi Mixer, incl. pneumatic operated butterfly valve, level
switch high and sack table.

➤ Big Bag Unit

Complete skid mounted unit with 2 air driven pumps and lances for liquid
chemicals from barrels or quick connection from containers.

WELL CONTROL EQUIPMENT

- BOP stacks: Cameron 18 3/4" 15000 Psi BOP Stacks includes:
One 18 3/4" 10000 Psi Cameron "DL" Annular
One 18 3/4" 15000 Psi Cameron "TL" "Double BOP
One 18 3/4" 15000 Psi Cameron "TL" Double BOP
with Tandem boosters in lower cavity
- Diverter : GE Vetco Gray Big Bore VFDJ 500 Psi Hydraulic
Support Housing For 49-1/2" RT
Diverter Line Size: 14" x 2
Flow Line Size: 16"
4" Outlets *3 for fill line, test line, flooding line
Minimum Bore of Main Packer: 36-1/2"
Minimum Insert Packer: To Packoff on 5" DP.
- BOP & Diverter Control:
Two 75 HP Triplex pump with 30GPM @ 3000 Psi.
Four Air driven pumps for emergency operation
Fluid reservoir tank: 1200-gallon
Accumulators:
64x15 gallons with 3000psi WP for BOP
8x15 gallons with 3000psi WP for Diverter
Controls: Local control at valve station
Remote Control at Diller's Cabin
Remote Control at Toolpusher's room

DRILL FLOOR AND CANTILEVER SKIDDING SYSTEM

- Cantilever Skidding system
HPU
Operating Pressure: 5000Psi
Electrical Motor rating: 2X90Kw

Skidding Cylinder: 4 unit
Max breakout capacity per assembly: 2200Kips
Skidding cylinder stroke 660mm.

Hydraulic Lifting jacks: 6 unit
Make: Enerpac or equivalent
Lifting capacity: 500mT
Stroke: 50mm.

Roller: 6 unit
Model: 1250-XT-69582
Lifting capacity: 1250 mT per unit.

DRILL FLOOR SKIDDING SYSTEM

Lift & roll Assemblies: 4 unit
Lifting capacity : 602 mT with 2 units.
Lifting stroke: 50mm.
Horizontal capacity: 170Kips per two cylinder
Skidding stroke: 200mm.



