



375 Ft. Drilling Jack-Up Unit

This drilling jack-up unit has a modern and field proven design with a full 375ft water depth capability. Decked with an NOV Drilling Package, she has a rate drilling depth of 30,000ft, upgraded quarters for up to 120 persons and a large mud and bulk capacity.

MAIN PARTICULARS

General

Design	GustoMSC CJ46-X100D
Jack-up type	Independent-leg type jack-up
Classification	ABS
Class notations	ABS ⚡A1, Self-Elevating Drilling Unit
Year Built	2015

Main Dimensions/Technical

Length of Hull	65.25 m (214 ft)
Breadth of Hull	62.00 m (203 ft)
Depth of Hull	8.00 m (26 ft)
Design Draft	4.50 m (15 ft)
Design Water Depth	114.3 m (375 ft)
Drilling Depth	9,144 m (30,000 ft)
Type of Legs	Triangular open truss X-braced structure
Leg Length	154 m (505 ft)
Size	10 m chord centre to centre
Aft Leg Centres	46.00 m (151 ft)
Centreline Aft Legs to Forward Leg	40.00 m (131 ft)
Accommodation	Upgraded to 120 persons
Helicopter Deck	Design for helicopter S61N, 22.2 x 22.2 m

STORAGE CAPACITIES

Main Deck Pipe Rack	500 ton (1,100 kips)
Cantilever Pipe Rack	360 ton (800 kips)

Variable Load at Operating Drilling Condition 3,500 ton (7,692 kips)

Variable Load at Max Elevated H. 2,500 ton (5,512 kips)

Fixed tanks are provided in the hull with capacities:

- Fuel Oil 800 m³ (28,251 ft³)
 - Potable Water 450 m³ (15,891 ft³)
 - Drill Water 2,000 m³ (70,629 ft³)
 - Pre-Load 10,500 m³ (370,804 ft³)
 - Liquid Mud 740 m³ (26,132 ft³)
 - Brine 200 m³ (7,063 ft³)
 - Base Oil 200 m³ (7,063 ft³)
 - Mud Treatment 40 m³ (1,412 ft³)
 - Bulk Barite/Bentonite tanks 212 m³ (7,486 ft³)
 - Bulk Cement tanks 212 m³ (7,486 ft³)
- A sack store is laid out for 5,000 sacks

DRILLING PACKAGE

Drilling Equipment

Derrick	NOV SSBN 750 – 35 ft x 35 ft x 160 ft
Drilling Depth	9,144 m (30,000 ft)
Drilling Envelope	21.34 m x 6.05 m (70 ft x 20 ft)
Hook Load	750 Short ton (1,500 kips)
Draw-works	NOV D3000AC 3 x 1000 HP, Low gear 775 ton (1,550 kips), high gear 313 ton (626 kips)
Drill Line Reel	NOV W-DLR-S 1 ³ / ₄ " , Skid mounted

Racking Capacity	30,000 ft
Top Drive	NOV TDS-8SA, 750 tons with retractable dolly 917 kW (1,150 HP), Drilling torque 62,250 ft-lbs, with a maximum speed of 270 RPM
Pipe Handling	PH-100
Iron Roughneck 2,000 ft-lbs (2,710 Nm)	NOV AR3200M, 3 1/2" drill pipe, 9 3/4" drill collars,
Rotary Table	NOV D-495, 49 1/2" inch Hydraulic-Driven

Well Control Equipment

BOP	NOV Spherical, 18 3/4", 15,000 psi compact dual rams complete with 15 1/2" MPL operators
BOP Air Hoist	4 x NOV 37.5 ton (82 kips)
Conductor Tensioner	227 mt (500 kips)
Diverter	49 1/2" NOV fixed type 500 psi
Choke and Kill	NOV, Working pressure 15,000 psi 2 each 3 1/16" hydraulic choke 2 each 3 1/16" manual choke

Mud System

Mud Pumps	NOV 14-P-220, 3 x 2,200 HP
Pressure Rating	7,500 psi
Gumbo Box	NOV Brandt 6' Dual Gumbo Box
Shale Shakers	4 units NOV Brandt King Cobra
Mud Conditioner	NOV Brandt King Cobra 24/3

Cantilever & Skidding System

Type	GustoMSC X-Y Skid System
Number	4 x 350 ton(772 kips)

Longitudinal & Transverse Reach	21.34 m (70 ft) & 6.05 m (20 ft)
Combined Load	1,134 ton (2,500 kips) ~ 680 ton (1,500 kips)

POWER

Main Generators	5 x CAT 3516C HD, 1,500 ekW
Emergency Generator	1 x CAT 3516C HD, 1,500 ekW

JACKING SYSTEM

Number	3 x 18 pinions from GustoMSC
Drive	AC electric, variable speed
Normal Jacking	215 ton (479 kips) per pinion
Pre-Load Jacking	296 ton (653 kips) per pinion
Normal Holding Load	400 ton (882 kips) per pinion
Severe Storm Holding Load	533 ton (1,175 kips) per pinion
Normal Jacking Speed	0.45 m/min
Pre-load Jacking Speed	0.3 m/min
Leg Handling	0.68 m/min

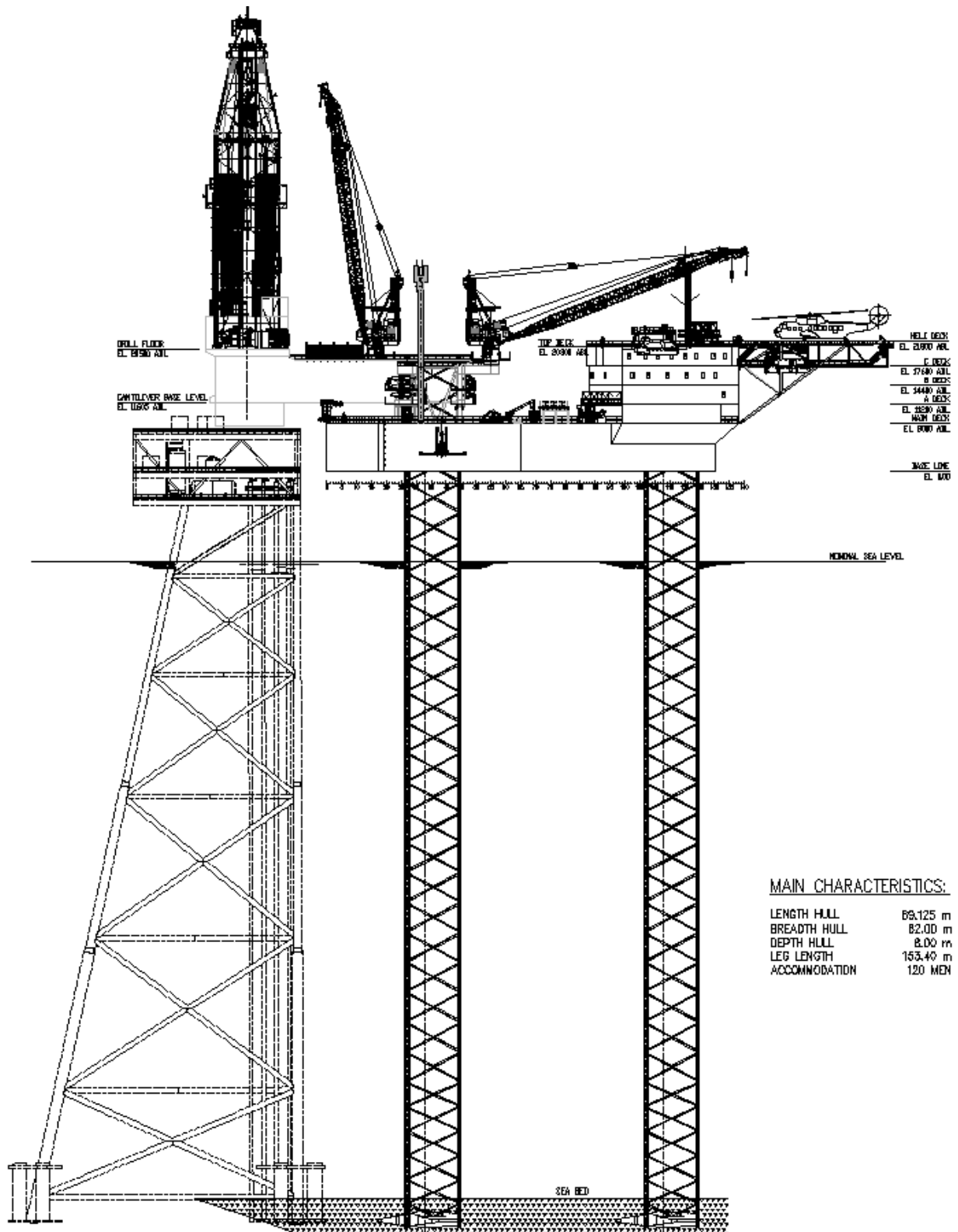
FIXATION SYSTEM

Number	18 from GustoMSC
Drive	AC electric

LIFTING EQUIPMENT

Deck Cranes	3 x FAVCO 50 ton (110 kips) @ 9.1m (30ft); auxiliary hoist 10 ton (22 kips) @ 41.1m (135 ft)
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GENERAL ARRANGEMENT – MODEL SITE VIEW



GENERAL ARRANGEMENT – MODEL MAIN DECK

