



Shelf Drilling Journey

350 Foot Jack-Up Drilling Unit

General Description	
Design	GustoMSC CJ46-X100-D
Year Built	2019
Hull Dimensions	214 ft. x 203 ft. x 26 ft.
Spud Can Diameter	52.5 ft.
Legs (3)	483 ft. triangular legs
Quarters Capacity	120 persons
Maximum Water Depth	350 ft.
Cantilever Envelope	70 ft. by 40 ft.
Max Variable Load (drilling)	Approx. 7,700 kips*

**depending on water depth and geographical location*

Drilling Equipment	
Derrick	NOV bolted H-beam derrick, 170 ft high with 35 ft x 40 ft base, static hook load capacity 1,500,000 lbs. with fourteen (14) 1-5/8" drilling lines
Drawworks	NOV ADS-10T AC drawworks, 3,000 HP driven by three (3) NOV DM27 motors each rated 1,229 HP, outfitted with NOV AC regenerative auxiliary brake
Rotary Table	NOV RST 4901/2, 750 short tons, hydraulic with 49-1/2 maximum opening
Top Drive	NOV TDS-8S AC electric top drive, 750 short tons 1,150 HP rated to 62,250 ft.lb maximum continuous torque, with PH-100 pipe-handler
Pipe Handling	NOV ST-120 Iron Roughneck, NOV PS-30 power slips; NOV PRS-8i Foxhole vertical column racker with racking gripper head for tubular OD from 2-7/8" to 9-3/4"; NOV Catwalk Shuttle System for tubular OD from 2-7/8" to 30"
Mud Pumps	Three (3) NOV 14-P-220 triplex pumps 7,500 psi, each driven by two (2) NOV DM27 motors rated 1,229 HP
Solids Control	Two (2) Derrick Primer II scalping shakers; four (4) Derrick Flo-line 504 linear motion shale shakers; one (1) Derrick DSN 10-3 desander with 3 x 10" cones; one (1) Derrick S-420-S desilter with 20 x 4" cones
Instrumentation	NOV Amphion drilling instrumentation system

Storage Capacities	
Liquid Mud	4,650 bbls.
Base Oil	1,208 bbls.
Brine	1,208 bbls.
Drill Water	12,500 bbls.
Fuel	3,620 bbls.
Bulk Material (8 silos)	15,000 cu.ft.
Sack Storage	5,000 sacks

Power Equipment	
Main Power	Five (5) Caterpillar 3516C HD diesel engines each rated at 2,150 HP @ 1,200 rpm and driving Kato 1,530 KW 690 V AC generators
Power Dist.	One (1) ABB 12 pulse rectifier VFD system, 4,000 KW, 931 V DC
Emer. Power	One (1) Caterpillar C32 diesel engine rated 994 KW @ 1,800 rpm driving a Leroy Somer 900 ekW 480 V AC generator

Well Control Equipment	
Diverter	GE Vetco Gray KFDJ-500, 47" maximum bore and 27-1/2" minimum through bore, rated to 500 psi working pressure
BOP Stack	One (1) Shaffer Wedge 18-3/4" 10K annular preventer and two (2) Shaffer NXT-M 18-3/4" 15K double ram preventers. <i>(Note: alternatively 13-5/8" 10K BOP can be provided.)</i>
BOP Handling	JD Neuhaus two (2) points hoist system, 75 short tons each

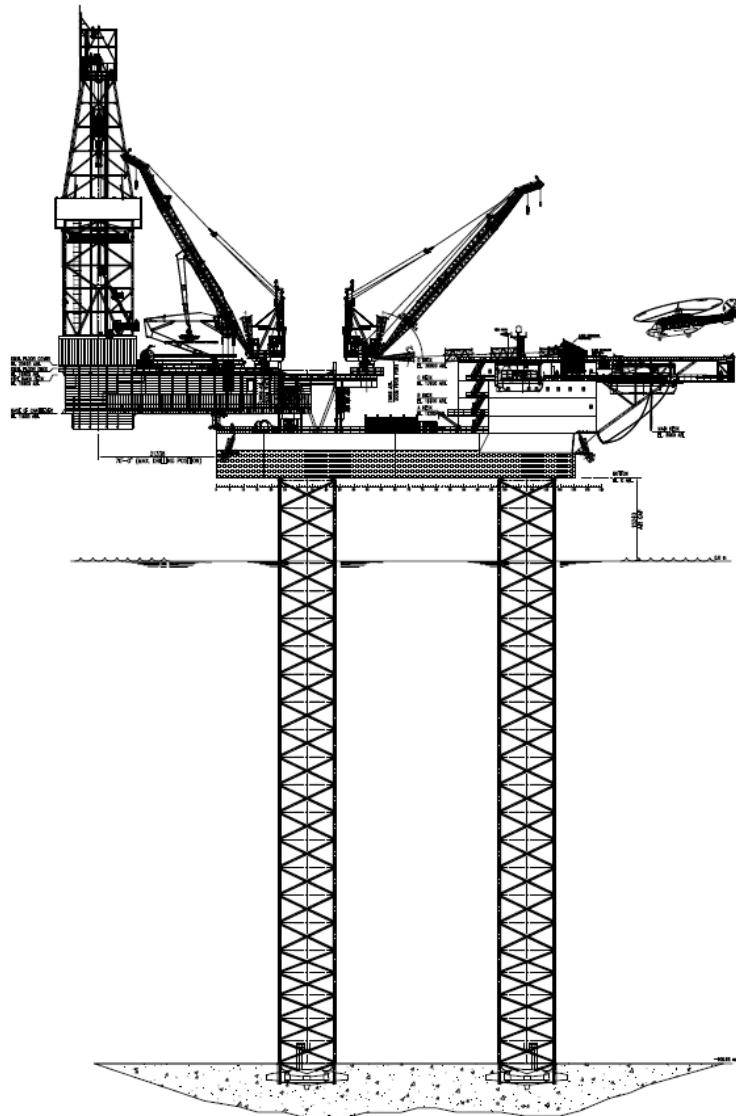
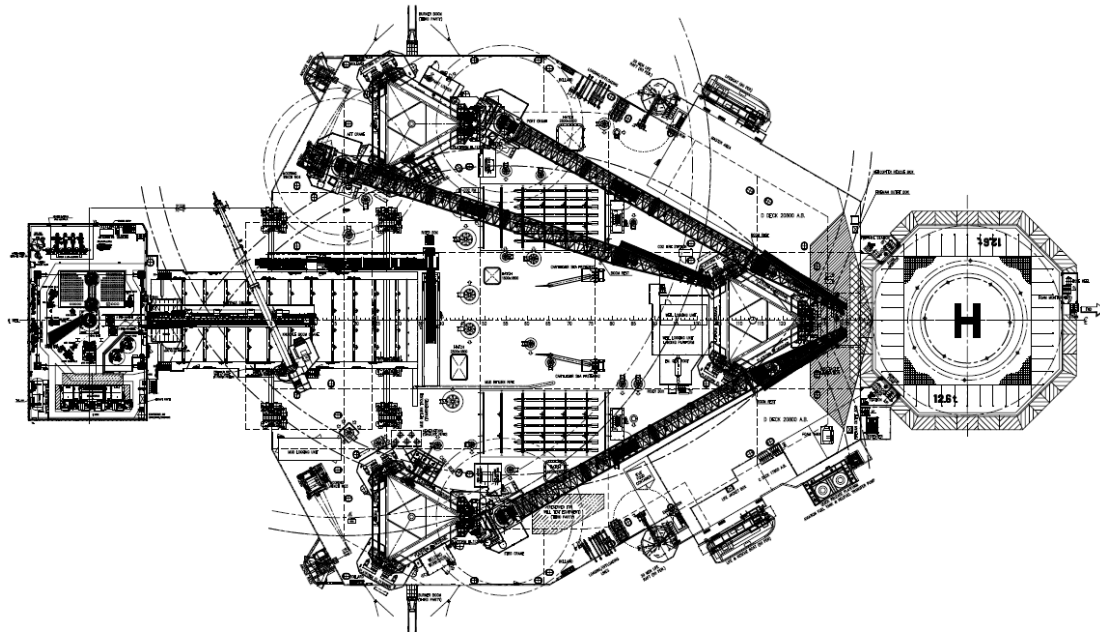
Cranes	
	Three (3) Favelle Favco diesel hydraulic cranes with 143 ft boom, rated to 50 MT @ 10 m radius and one (1) NOV knuckle boom pipe-handling crane with 73 ft boom and gripper yoke for 2-7/8" to 20" OD tubulars, rated to 7 MT

Special Features	
	Capable for making up tubular stands offline. Outfitted with GustoMSC X-Y skidding system which provides huge load in a large drilling envelope of 70 ft x 40 ft. Capable for in-field rig move with 550 kips of setback in the derrick.

R-Sep-2019



These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Shelf Drilling policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.



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