

GENERAL SPECIFICATIONS AND OPERATING PARAMETERS

FORTIUS

BAKER MARINE PACIFIC
CLASS 400 JACK-UP

Shipyard Delivery	October 23, 2013. PPL Shipyard.
Classification	ABS ⌘ A1 Self-Elevating Drilling Unit
Owner	Oro Negro Fortius Pte Ltd.
Flag	Panama
Dimensions	236.5ft x 224.4ft x 27.9ft
Water Depth	Rated for 30ft to 400ft
Max Drilling Depth	30,000 ft
Cantilever Reach	75ft aft, 30ft transverse (15ft port / 15ft starboard)
Leg Length	532.6ft
Leg Spacing	155.18ft transverse 145.34ft longitudinal
Spudcan Diameter	55.5ft
Variable Deck Load	Drilling: 7498 kips Survival: 6500 kips Transit: 5000 kips
Helideck Capacity	Sikorsky S61N & S92

DRILLING EQUIPMENT

Derrick	NOV Bolted Beam Leg Derrick 35ft x 35ft base 14ft x 14ft top 160ft clear working height Rotary center is offset 5ft aft of the derrick centerline (offset derrick)
Capacity	1,500,000 lbs static hook load with 14 lines
Racking Capacity	322 stands of 5½" DP range II triples (29,946ft) 8 stands of 7" DC range II triples (744ft) 8 stands of 8¼" DC range II triples (744ft) 4 stands of 9½" DC range II triples (372ft) 14,000ft of 3½" tubing Folding port side casing board at approx. 75ft elevation with capacity for 1000ft of 9½" casing or 7000ft of 7" casing
Drawworks	One (1) NOV ADS-10T 3000 hp Drawworks rated at 1,500,000 lbs with 14 lines

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Rotary Table	One (1) NOV RST-495 49½” hydraulically operated, 750 sht dynamic load and 1000 sht static load 30,000 ft/lbs @ 20rpm @ 3000psi
Iron Roughneck	One (1) NOV ST-100 hydraulically operated, pedestal mounted roughneck, for tubular range 4” to 9¾”, make up torque 100,000 ft/lbs, break out torque 120,000 ft/lbs for well center operations One (1) NOV ST-100 hydraulically operated, pedestal mounted roughneck, for tubular range 4” to 9¾”, make up torque 100,000 ft/lbs, break out torque 120,000 ft/lbs for offline standbuilding operations
Top Drive	NOV TDS-8SA, lifting capacity 750 sht hoisting, 650 sht rotating 62,250 ft/lbs maximum continuous torque 95,000 ft/lbs intermittent torque 0 to 270 max rpm 1 x 1150 hp motor
Catheads	Two (2) NOV HC-26EV electrically controlled hydraulic operated catheads with a line pull of 34,000 lbs at 2500psi

CAPACITIES

Diesel	4085 bbls Fuel Oil		
Potable Water	3520 bbls		
Sack Storage	5000 sacks		
Brine	1255 bbls		

OTHER PARTICULARS

Accommodations	150 Persons
Jacking System	Baker Marine rack and pinion system, 9 elevating jack sets, four pinions per chord. Total of 36 jacking units consisting of 2 active pinions and 1 AC watertight electric motor. Normal jacking rating = 275mt per pinion (19,800mt total), preload jacking rating = 370mt per pinion (26,640mt total)
Mud Pumps	Three (3) NOV 14-P-220 2200 hp 7500psi triplex single acting pumps with 9” x 15” stroke

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Shakers	Four (4) NOV Brandt VSM 300 shale shakers c/w primary and scalping decks (1 x configured as desander / desilter)
BOP Stack	One (1) Cameron 18¾" x 15,000psi wp, HPHT (121°C), H ₂ S rated BOP Stack consisting of 1 x 18¾" 10,000psi DL annular and 2 x 18¾" 15,000psi TL double ram assemblies (c/w test stump and HP test pump)
BOP Controls	One (1) CAD Controls BOP / Diverter control system including local control, driller's control and toolpusher's control in accordance with the recommendations of API and the manufacturer. Accumulators designed in accordance with API RP53 and API 16D
Diverter	One (1) Vetco Gray 49½" KFDJ-500 500psi wp diverter c/w 16" flowline, 2 x 12" overboard discharge lines, 1 x 3" fill-up line and 1 x 6" deluge line connections
C & K Manifold	One (1) Forum API 6A PSL-3 3 ¹ / ₁₆ " 15k HP side x 4 ¹ / ₁₆ " 5K LP side C&K manifold c/w 1 x manual and 2 x remote chokes, HPHT service & H ₂ S trimmed
Mud Manifold	One (1) x Forum API 6A PSL-2 dual 5" ID 7,500 psi WP Stand-pipe Manifold, HPHT
Cement Manifold	One (1) x Forum API 6A PSL 3 single 3" ID 15,000 psi WP Cement Manifold, HPHT
Cement Unit	TBA

POWER GENERATION

Main Engines	Five (5) Caterpillar CAT.3516CHD DITA Diesel powered prime movers each rated at approx. 2150hp at 1200rpm c/w KATO 6P63300 generator rated at 2150kVA @ 1200rpm, 690V, 60Hz, 3 Phase
Emergency Power	One (1) Caterpillar CAT.3508B DITA Diesel powered emergency power unit rated at approx. 1298hp at 1800rpm, c/w Leroy Somer LSA49.1L11 generator rated at 1230kVA @ 1800rpm, 480V, 60Hz, 3 Phase

HANDLING SYSTEMS

Deck Cranes	<p>Three (3) BMC 2250E API 2C king post type diesel hydraulic deck cranes c/w 118ft booms</p> <p>Main hoist rated at 50.77mt at 24.6ft minimum working radius and 13.83mt at maximum working radius of 127.6ft</p> <p>Auxiliary hoist rated at 10mt at all radii</p> <p>(All ratings noted above are based upon inboard service)</p>
Offline Tubular	One (1) Forum 22K OAC bridge crane, 22,000 lbs max hoisting capacity

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BOP Handling	Two (2) JD Neuhaus EH-75 75 mt pneumatically driven BOP chain hoists
Xmas Tree Handling	1 x Xmas Tree trolley beam rated at 45 mt c/w hoist
Conductor Tensioner	One (1) TSC CTU c/w 4 x 350mm stroke hydraulic cylinders, max. tension load 225mt, max. horizontal load 25mt, suitable for 30" conductor

LIFESAVING SYSTEMS

Lifeboats	Three (3) Jiangyin Neptune Marine NPT85F Totally enclosed lifeboat/rescue boat x 75 man (98kg/man), diesel engined, davit launched lifeboats (150% of PoB)
Life rafts	Six (6) Viking Model 25 DK x 25 man inflatable liferafts
Lifejackets	2225 x SOLAS approved lifejackets plus a further 4 x installed at the CTU deck
Lifebuoys	10 x installed in accordance with IMO MODU and SOLAS requirements plus a further 4 x installed at the CTU deck