

GENERAL SPECIFICATIONS AND OPERATING PARAMETERS

VASTUS

PPL PACIFIC
CLASS 400 JACK-UP

Shipyard Delivery	March 30, 2015. PPL Shipyard
Classification	ABS, ⚠ A1 Self-Elevating Drilling Unit
Owner	Oro Negro Decus 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	532.6 ft
Leg Spacing	155.18 ft transverse 143.34 ft longitudinal
Spudcan Diameter	55.5 ft
Variable Deck Load	Drilling: 7498 kips Survival: 6500 kips Transit: 5000 kips
Helideck Capacity	Sikorsky S61N & S92

DRILLING EQUIPMENT

Derrick	LOADMASTER Bolted H Beams type 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 5 7/8" Drill Pipe (29,946ft) 8 stands of 7" DC range II triples (744ft) 8 stands of 8 1/4" DC range II triples (744ft) 4 stands of 9 1/2" DC range II triples (372ft) One Port Fingerboard at elevation approx..73.5 ft with adjustable fingers to accommodate approx..7000ft of 9-5/8" or 7 Casing.
Drawworks	Max Lifting capacity : 680Mt(750 sh-ton)based on 14lines Power (Continuous): 1,700kW(2,300hp) Power (Intermittent) : 2,220kW(3,000hp) Drill line: 1-5/8"

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Rotary Table	Type: 49-1/2" (Hydraulic Motor – Radial Piston Type) Power: Hydraulic, 207bar Load capacity: 680Mt(750 sh-ton) Max torque: 47000Nm(35,000 ft-lbs) Max rpm: 15rpm
Iron Roughneck	<p>Well Centre Iron Roughneck Designed to handle all normal ranges of Drill Pipe and Drill Collar from 3 1/2" to 9 3/4", Make up torque 140kNm (103,300 ft-lbs), Break Out torque 200kNm (147,500 ft-lbs), Stick Up height 800mm(32") to 1,800mm(70")</p> <p>Offline Stand building Iron Roughneck Designed to handle all normal ranges of Drill Pipe and Drill Collar from 3 1/2" to 9 3/4", Make up torque 140kNm (103,300 ft-lbs), Break Out torque 140kNm (103,300 ft-lbs), Stick Up height 455mm(18") to 1640mm(65")</p>
Top Drive	Rated: 750sh-ton AC-driven top drive system Max torque (cont) : 89,500Nm (66,000 ft-lbs) at 91 rpm Drilling Speed : 0-274 rpm Mud System rating: 517 bar (7,500 psi) Break Out torque : 155Nm (115,000 ft-lbs)
Catheads	Two Catheads fully integrated for control from the DCR . Maximum Line Pull : 147Kn (33,050lbs) Minimum Line Pull : 15kN (3,372 lbs)

CAPACITIES

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

OTHER PARTICULARS

Accommodations	150 Persons
Jacking System	PPL 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)

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Mud Pumps	3 X Dual top mounted ,belt driven electric AC Motors HP Mud Pump, 2200 hp 7500psi with 14 stroke triple.
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 D annular and 2 x 18¾" 15,000psi Compact 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 PSI-3 3¼" 15k HP side x 4¼" 5K LP side C&K manifold c/w 1 x manual and 2 x remote chokes, HPHT service & H ₂ S trimmed
Mud Manifold	1 x 5" ID dual standpipe and manifold assembly 7,500# wp with 2 goosenecks in derrick and 2 pressure gauges 2 spare connections for 3rd party instrument per standpipe
Cement Manifold	1 x 3" single cement standpipe manifold assembly with 1 gooseneck in derrick 15,000 psi 2 separate high pressure 15,000 psi lines from cement unit to drill floor cement standpipe manifold
Cement Unit	Client furnished

POWER GENERATION

Main Engines	5 diesel engine rated at approx. 2150hp at 1200rpm coupled to alternators rated at 2150kVA, 690Volt, 60Hz, 3 Phase,0.8 pf diesel driven generator.
Emergency Power	1 diesel emergency power unit rated at approx. 1298hp at 1800rpm coupled to alternators rated at 480Volt, 60Hz, 3 Phase,0.8pf,1020 KVA

HANDLING SYSTEMS

Deck Cranes	BAKER MARINE 3 X king post type diesel hydraulic deck cranes c/w 36.58M booms. Main hoist rated at 50.77mt at 7.5M minimum working radius and 13.83mt at maximum working radius at 38.90 maximum working radius Auxiliary hoist rated at 11.0mt at all radii (All ratings noted above are based upon inboard service)
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Offline Tubular	One (1) Forum 22K OAC bridge crane, 22,000 lbs max hoisting capacity
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 (OFE)
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	3 x 75man reinforced fiberglass construction survival crafts, totally enclosed, diesel propelled with hydraulic start. (150% of PoB)
Life rafts	6 x 25man inflatable life rafts
Lifejackets	170 x SOLAS approved lifejackets (150 on accommodation, 10 on drill floor , 10 on main deck)
Lifebuoys	10 x installed in accordance with IMO MODU and SOLAS requirements plus a further 4 x installed at the CTU deck