

## GENERAL SPECIFICATIONS AND OPERATING PARAMETERS

# IMPETUS

PPL PACIFIC  
CLASS 400 JACK-UP

<b>Shipyard Delivery</b>	December 30, 2014. PPL Shipyard
<b>Classification</b>	ABS, ⚠ A1 Self-Elevating Drilling Unit
<b>Owner</b>	Oro Negro Decus Pte Ltd.
<b>Flag</b>	Panama
<b>Dimensions</b>	236.5ft x 224.4ft x 27.9ft
<b>Water Depth</b>	Rated for 30ft to 400ft
<b>Max Drilling Depth</b>	30,000 ft
<b>Cantilever Reach</b>	75ft aft, 30ft transverse (15ft port / 15ft starboard)
<b>Leg Length</b>	532.6 ft
<b>Leg Spacing</b>	155.18 ft transverse 143.34 ft longitudinal
<b>Spudcan Diameter</b>	55.5 ft
<b>Variable Deck Load</b>	Drilling: 7498 kips Survival: 6500 kips Transit: 5000 kips
<b>Helideck Capacity</b>	Sikorsky S61N & S92

## DRILLING EQUIPMENT

<b>Derrick</b>	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)
<b>Capacity</b>	1,500,000 lbs static hook load with 14 lines
<b>Racking Capacity</b>	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.
<b>Drawworks</b>	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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<b>Rotary Table</b>	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
<b>Iron Roughneck</b>	<p><b>Well Centre Iron Roughneck</b> 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><b>Offline Stand building Iron Roughneck</b> 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>
<b>Top Drive</b>	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)
<b>Catheads</b>	Two Catheads fully integrated for control from the DCR . Maximum Line Pull : 147Kn (33,050lbs) Minimum Line Pull : 15kN (3,372 lbs)

## CAPACITIES

<b>Diesel</b>	4085 bbls Fuel Oil		
<b>Potable Water</b>	3520 bbls		
<b>Sack Storage</b>	5000 sacks		
<b>Brine</b>	1255 bbls		

## OTHER PARTICULARS

<b>Accommodations</b>	150 Persons
<b>Jacking System</b>	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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<b>Mud Pumps</b>	3 X Dual top mounted ,belt driven electric AC Motors HP Mud Pump, 2200 hp 7500psi with 14 stroke triple.
<b>Shakers</b>	Four (4) NOV Brandt VSM 300 shale shakers c/w primary and scalping decks (1 x configured as desander / desilter)
<b>BOP Stack</b>	One (1) Cameron 18¾" x 15,000psi wp, HPHT (121°C), H <sub>2</sub> 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)
<b>BOP Controls</b>	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
<b>Diverter</b>	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
<b>C &amp; K Manifold</b>	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 <sub>2</sub> S trimmed
<b>Mud Manifold</b>	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
<b>Cement Manifold</b>	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
<b>Cement Unit</b>	Client furnished

## POWER GENERATION

<b>Main Engines</b>	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.
<b>Emergency Power</b>	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

<b>Deck Cranes</b>	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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<b>Offline Tubular</b>	One (1) Forum 22K OAC bridge crane, 22,000 lbs max hoisting capacity
<b>BOP Handling</b>	Two (2) JD Neuhaus EH-75 75 mt pneumatically driven BOP chain hoists
<b>Xmas Tree Handling</b>	1 x Xmas Tree trolley beam rated at 45 mt c/w hoist (OFE)
<b>Conductor Tensioner</b>	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

<b>Lifeboats</b>	3 x 75man reinforced fiberglass construction survival crafts, totally enclosed, diesel propelled with hydraulic start. (150% of PoB)
<b>Life rafts</b>	6 x 25man inflatable life rafts
<b>Lifejackets</b>	170 x SOLAS approved lifejackets (150 on accommodation, 10 on drill floor , 10 on main deck)
<b>Lifebuoys</b>	10 x installed in accordance with IMO MODU and SOLAS requirements plus a further 4 x installed at the CTU deck