

**VANTAGE DRILLING COMPANY
TOPAZ DRILLER
BAKER MARINE PACIFIC CLASS 375 JACK-UP**

GENERAL SPECIFICATIONS

Shipyard Delivery	Dec-09, PPL Shipyard
Classification Agency	ABS ⌘ A1, Self-Elevating Unit
Dimensions	236' x 224' x 27.9'
Water Depth	Maximum: 375 ft Minimum: 30 ft
Max. Drilling Depth	30,000 ft
Cantilever Reach	75 ft aft, 30' transverse
Leg Length	506 ft
Leg Spacing	155.2' transverse 145.3' longitudinal
Spudcan Diameter	55.5 ft
Variable Deck Load	Operating: 7497 kips Survival: 6000 kips Transit: 5000 kips
Operating Draft	18.8 ft
Transit Draft	19.5 ft
Max. Wave Height	Operating: 45 ft Survival: 70 ft w/ 200 ft WD
Helideck Capacity	Sikorsky S-61N and upgradable to suit S92 c/w Wilmax Heli Fuel Unit



DRILLING EQUIPMENT

Derrick Capacity	Loadmaster 5 ft offset derrick, 35 x 35 ft @ base; 14 x 16 ft @ top x 160 ft clear working height 1.5 million lbs static hook load
Racking Capacity	365 Stands of 5½" drill pipe range II triples x 93 ft (33,945 ft), upgradeable to a max. 410 stands 14 stands of 9½" Drill collar range II triples x 93 ft (1,302 ft) (Fingers 1, 2, 3 & 4 can accommodate a combination of 7" tubing, 6 ⅝" HWDP, 6 ⅝" DP, 6½" DC or 5 ⅝" DP, however, the total number of stands remains at 365)
Drawworks	Sense EDM Ultrahoist® 750-3000, c/w 2 x GEB22 AC motors (3000 hp)
Rotary Table	1 x NOV D-495 7K, 49½" hydraulically operated, 800 sht rated, 37,000 ft lbs @ 21.5 rpm
Iron Roughneck	1 x Hawkjaw T-WREX pedestal mounted, range 4" to 9½", MU & BO torque, 100,000 ft lbs
Top Drive	Canrig model 1275 AC, lifting capacity 750 sht, 51,400 ft lbs max continuous torque, 71,500 ft lbs intermittent, 0-256 max rpm, 1 x 1150 hp GEB20 AC motor
Catheads	2 x Sense EDM GX electrically controlled hydraulic catheads, 32,800 lbs line pull

CAPACITIES

Diesel	3720 bbls	Drillwater	17,050 bbls
Potable Water	3650 bbls	Bulk Storage	11,654 ft ³
Sack Storage	5000 sacks	Base Oil	1230 bbls
Brine	1220 bbls	Liquid Mud	4130 bbls

OTHER PARTICULARS

Accommodation	120 Persons
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Jacking System	Baker Marine model BMPL J800-2P, c/w 72 active drive pinions powered by 36 N° 46 kW AC drive motors (12 per jackcase, 4 per chord), normal jacking capacity 19,800 mt
Skidding Systems	Cantilever skidding – Baker Marine, four hydraulic cylinders each rated at 458 mt, c/w hydraulically operated locking pins, average skidding speed 0.5 m/min Drill floor skidding – Baker Marine, two hydraulic cylinders each rated at 231 mt pulling and 263 mt pushing, c/w hydraulically operated locking pins, average skidding speed 0.5 m/min
Mud Pumps	3 x Eweco E-2200-15, 9"x15", 2200 hp, 7,500 psi c/w 2 x GEB 22D AC motors
Shakers	4 x NOV Brandt VSM 300 BEM shakers
BOP Stack	1 x Shaffer 18¾" 15,000 psi, 4 x ram BOP, (2 x doubles), + 1 x Shaffer 18¾" 10,000 psi annular BOP, HPHT, H ₂ S rated (c/w test stump and test pump)
BOP Controls	1 x CAD Control Systems BOP / Diverter control unit including local control, driller's control and toolpusher's control stations
Diverter	1 x Vetco Gray 49½" KFDJ-500 STD 500 psi (27½" ID) diverter with 14" flowline and 2 x 12" overboard lines
C & K Manifold	1 x RB Forum / Pipetech API 16C 3 ¹ / ₁₆ " 15k HP side / 3 ¹ / ₈ " 5k LP side
Mud Manifold	1 x RB Forum / Pipetech API 6A PSL dual 5" NB 7,500 psi wp
Cement Manifold	1 x RB Forum / Pipetech API 6A PSL single 3" NB 15,000 psi wp
Cement Unit	BJ Services, Seahawk unit, 15,000 psi safe working pressure

POWER GENERATION

Main Engines	5 x CAT 3516B Diesel engines, rated at 1855 HP, (1600 KW) , at 1200 rpm c/w Baylor S637XUT AC generator rated at 2150 KVA, @ 1200 rpm, 690V, 60 Hz, 3 Phase
Emergency Power	1 x CAT 3508B DITA Diesel engine, rated at 1220 HP, (910 KW), at 1800 rpm c/w Leroy Somer LSA M 50 IS4 AC generator rated at 1230 kVA, @ 1800 rpm, 480V, 60 Hz, 3 Phase

HANDLING SYSTEMS

Deck Cranes	2 x Baker Marine 2250-I w/ 120 ft boom, main hoist ratings - 50 mt @ 25 ft radius and 15.5 mt @ 120 ft radius (static), 33.32 mt @ 25 ft radius and 10.3 mt @ 120 ft radius (dynamic), auxiliary hoist rating – 10 mt at maximum radius (static) and 6.66 mt at max radius (dynamic) 1 x Baker Marine 900-I w/ 100 ft boom, main hoist ratings - 22.67 mt @ 20 ft radius and 7.14 mt @ 100 ft radius (static), 15.07 mt @ 20 ft radius and 4.75 mt @ 100 ft radius (dynamic), auxiliary hoist rating – 5 mt at maximum radius (static) and 3.32 mt at maximum radius (dynamic)
Offline Tubular	1 x Crane Safe OAC offline activities crane, 5000 lbs swl
BOP Handling	2 x JD Neuhaus model EH 60 pneumatically operated BOP hoists each with a capacity of 60 mt
Xmas Tree Handling	1 x Xmas Tree trolley beam rated at 30 mt c/w hoist
Conductor Tensioner	1 x Patriot 225 mt capacity CTU with 350 mm stroke suitable for 30" and 36" conductor

LIFESAVING SYSTEMS

Lifeboats	3 x 60 man capacity Neptune Marine NPT75F TELB davit launched lifeboats (150% of PoB) One of the lifeboats is nominated as the rescue craft
Life rafts	6 x 25 man model RFD Survival 25 MK III inflatable liferafts launched via Global model 32/4.5 davits located one each port and starboard (125% of POB)
Lifejackets	140 lifejackets (120 in accommodation)
Lifebuoys	10 installed in accordance with IMO MODU & SOLAS