

BAKER MARINE PACIFIC CLASS 375 JACK-UP

GENERAL SPECIFICATIONS

Shipyards Delivery	Sep-09
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
Max. Leg Penetration	15 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 or equivalent (20,500 lbs) 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, 6⅝" HWDP, 6⅝" DP, 6½" DC or 5⅝" 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 Rogers Oiltools pedestal mounted, tubular range 4½" to 8½", 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
----------------------	-------------

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 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" i/d) diverter with 14" flowline and 12" overboard lines
C & K Manifold	1 x RB Pipetech API 16C 3 ¹ / ₁₆ " 15k HP side / 4 ¹ / ₁₆ " 10k LP side
Mud Manifold	1 x RB Pipetech API 6A PSL dual 5" NB 7,500 psi wp
Cement Manifold	1 x RB Pipetech API 6A PSL single 3" NB 15,000 psi wp

POWER GENERATION

Main Engines	5 x CAT 3516B HD DITA Diesel engines, rated at 2150 Hp, (1600 bkW) , at 1200 rpm c/w Baylor S637XUT AC alternator rated at 2150 kVA, 1720 ekW at 1200 rpm, 690V, 60 Hz, 3 Ph
Emergency Power	1 x CAT 3508B DITA Diesel engine, rated at 1298 Hp, (968 bkW), at 1800 rpm c/w Leroy Somer LSA M 50.1S4 AC alternator rated at 900 kVA, 720 ekW at 1800 rpm, 480V, 60 Hz, 3 Ph

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 Surviva 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