

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

**GENERAL SPECIFICATIONS**

|                              |   |
|------------------------------|---|
| <b>Shipyards Delivery</b>    | Dec-08, PPL Shipyards   |
| <b>Classification Agency</b> | ABS Ⓢ A1 HAB+, Self-Elevating Unit                                |
| <b>Dimensions</b>            | 236' x 224' x 27.9'   |
| <b>Water Depth</b>           | Maximum: 375 ft<br>Minimum: 30 ft                                 |
| <b>Max. Drilling Depth</b>   | 30,000 ft   |
| <b>Cantilever Reach</b>      | 75 ft aft, 30' transverse   |
| <b>Leg Length</b>            | 506 ft  |
| <b>Leg Spacing</b>           | 155.2' transverse<br>145.3' longitudinal                          |
| <b>Spudcan Diameter</b>      | 55.5 ft   |
| <b>Variable Deck Load</b>    | Operating: 7497 kips<br>Survival: 6000 kips<br>Transit: 5000 kips |
| <b>Operating Draft</b>       | 18.8 ft   |
| <b>Transit Draft</b>         | 19.5 ft   |
| <b>Max. Wave Height</b>      | Operating: 45 ft<br>Survival: 70 ft w/ 200 ft WD                  |
| <b>Helideck Capacity</b>     | Sikorsky S-61N and upgradable to suit S92                         |



**DRILLING EQUIPMENT**

|                         |  |
|-------------------------|--|
| <b>Derrick Capacity</b> | Loadmaster 7½ ft offset derrick, 35 x 35 ft @ base; 14 x 16 ft @ top x 170 ft clear working height<br>1.5 million lbs static hook load                                       |
| <b>Racking Capacity</b> | 413 Stands of 5½" drill pipe range II triples x 93 ft (38,409 ft)<br>12 Stands of 9¾" drill collar range II triples x 93 ft (1,116 ft)                                       |
| <b>Drawworks</b>        | Maritime Hydraulics Wirth GH 3000 EG-AC-SV-CL (3000 hp)  |
| <b>Rotary Table</b>     | Maritime Hydraulics RTSS - 49½" H hydraulically operated, 800 sht rated  |
| <b>Iron Roughneck</b>   | 1 x AKMH model MH 1898 Mk I Manual roughneck for tubular range 3½" to 9¾"<br>1 x Hawk Ind's HawkJaw Jr model 65K-950-JR hydraulic power tong for tubular range 3½" to 8"     |
| <b>Top Drive</b>        | Maritime Hydraulics DDM-650-AC-1M-1S-1150, lifting capacity 650 sht, 63,400 ft lbs<br>max continuous torque, 91,000 ft lbs intermittent, 0-268 Max rpm, 1 x 1150 hp AC motor |
| <b>Catheads</b>         | 2 x AKMH BX24 Mk I electrically controlled hydraulic catheads, 31,500 lbs line pull  |

**CAPACITIES**

|                      |            |                     |                        |
|----------------------|------------|---------------------|------------------------|
| <b>Diesel</b>        | 3717 bbls  | <b>Drillwater</b>   | 16,733 bbls            |
| <b>Potable Water</b> | 3648 bbls  | <b>Bulk Storage</b> | 11,640 ft <sup>3</sup> |
| <b>Sack Storage</b>  | 5000 sacks | <b>Base Oil</b>     | 1200 bbls              |
| <b>Brine</b>         | 1200 bbls  | <b>Liquid Mud</b>   | 4375 bbls              |

**OTHER PARTICULARS**

|                       |   |
|-----------------------|---|
| <b>Accommodations</b> | 113 Persons (ABS HAB+)  |
| <b>Jacking System</b> | Baker Marine model BMPL J800-2P, c/w 72 active drive pinions powered by 36 N <sup>o</sup> 46 kW AC drive motors (12 per jackcase, 4 per chord), normal jacking capacity 19,800 mt |

|                           |   |
|---------------------------|---|
| <b>Skidding Systems</b>   | 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<br>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 |
| <b>Mud Pumps</b>          | 3 x AKMH Wirth TPK 7½" x 14" 2200 CL, 2200 hp, 7,500 psi, c/w 2 x GE AC motors  |
| <b>Shakers</b>            | 4 x NOV Brandt VSM 300  |
| <b>BOP Stack</b>          | 1 x Cameron 18¾" 15,000 psi, 4 x ram BOP, (2 x TL doubles), + 1 x Cameron 18¾" 10,000 psi annular BOP, HPHT, H <sub>2</sub> S rated (c/w test stump and test pump)  |
| <b>BOP Controls</b>       | 1 x CAD Control Systems BOP / Diverter control unit including local control, driller's control and toolpusher's control stations  |
| <b>Diverter</b>           | 1 x Vetco Gray 49½" KFDJ-500 STD 500 psi (27½" ID) diverter with 14" flowline and 2 x 12" overboard lines   |
| <b>C &amp; K Manifold</b> | 1 x RB Pipetech API 16C 3 <sup>1</sup> / <sub>16</sub> " 15k HP side / 4 <sup>1</sup> / <sub>16</sub> " 10k LP side   |
| <b>Mud Manifold</b>       | 1 x RB Pipetech API 6A PSL dual 5" NB 7,500 psi WP  |
| <b>Cement Manifold</b>    | 1 x RB Pipetech API 6A PSL single 3" NB 15,000 psi WP   |
| <b>Cement Unit</b>        | BJ Services, Seahawk unit, 15,000 psi safe working pressure   |

### POWER GENERATION

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| <b>Main Engines</b>    | 5 x CAT 3516 B Diesel engines, rated at 1855 Hp, (1386 bkW) , at 1200 rpm c/w Kato 19651-01 AC alternator rated at 2150 kVA, 1720 ekW at 1200 rpm, 690V, 60 Hz, 3 Ph           |
| <b>Emergency Power</b> | 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

|                            |  |
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| <b>Deck Cranes</b>         | 1 x Baker Marine 2250-I w/ 120 ft boom, main hoist ratings - 68 mt @ 25 ft radius and 15.58 mt @ 120 ft radius (static), 45.35 mt @ 25 ft radius and 10.39 mt @ 120 ft radius (dynamic)<br>1 x Baker Marine 1600-I w/ 120 ft boom, main hoist ratings - 39 mt @ 25 ft radius and 8 mt @ 120 ft radius (static), 26.02 mt @ 25 ft radius and 5.36 mt @ 120 ft radius (dynamic)<br>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)<br>All cranes – auxiliary hoist ratings – 5 mt at maximum radius (static) and 3.32 mt at maximum radius (dynamic) |
| <b>Offline Tubular</b>     | 1 x Crane Safe OAC offline activities crane, 5000 lbs swl  |
| <b>BOP Handling</b>        | 2 x OHS model NEC 4520 pneumatically operated BOP hoists each with a capacity of 60 mt<br>2 x OHS BOP / Xmas Tree skidding trolleys each rated at 100 mt   |
| <b>Xmas Tree Handling</b>  | 2 x Xmas Tree trolley beams each rated at 15 mt c/w hoist  |
| <b>Conductor Tensioner</b> | 1 x Patriot 200 mt capacity CTU with 300 mm stroke suitable for 30" and 36" conductor  |

### LIFESAVING SYSTEMS

|                          |   |
|--------------------------|---|
| <b>Lifeboats</b>         | 3 x 60 man capacity Neptune Marine NPT75F TELB davit launched lifeboats (150% of PoB)   |
| <b>Fast Rescue Craft</b> | 1 x 15 man capacity EC W.H. Brennan model GJ6.0B-1 FRC, crane launched with an operational endurance of 4 hrs at 30 knots with 3 occupants    |
| <b>Life rafts</b>        | 4 x 35 man model DSB LR97-LSRI inflatable liferafts launched via Global model 32/4.5 davits located one each port and starboard (124% of POB) |
| <b>Lifejackets</b>       | 140 lifejackets (120 in accommodation)  |
| <b>Lifebuoys</b>         | 10 installed in accordance with IMO MODU & SOLAS  |