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## AD17



Rig ARAB DRILL 17

Type: Jackup  
Country: Saudi Arabia

|                       |  |  |
|-----------------------|--|--|
| Vessel Specifications | Design                                 | Marathon Letourneau 82 SD-C  |
|                       | Service date                           | 1981   |
|                       | Classification                         | American Bureau of Shipping Class A 1  |
|                       | Port of Registry/Flag                  | Dammam Port of registry, Saudi Arabian Flag  |
|                       | Length                                 | 207 ft 4 in  |
|                       | Width                                  | 176 ft   |
|                       | Depth of hull                          | 20 ft  |
|                       | Cantilever reach                       | Longitudinal 40 ft from aft transon  |
|                       | Transversal skid                       | Transverse 10 ft either side of vessel centerline  |
|                       | Lightship draft                        | 9.5 ft   |
|                       | Transit draft with full deck load      | 10.8 ft  |
|                       | Variable load- transit/jacking/operat. | 1722Kips / 1722Kips / 3722Kips   |
|                       | Crew quarters                          | Certified for 100 persons...Breakdown ( 100 beds / 1x8ea + 5x6ea + 7X 4ea + 17X2ea + 7 X 1ea ) |

|                                   |                                    |   |
|-----------------------------------|------------------------------------|---|
|                                   | Major upgrade                      | 1998 , New Derrick shakers, Hi □ Flo Line cleaner, Degasser<br>2005, Mast beefup, Mud tanks expansion, new TDS, New SCR system, New Engines,<br>Accommodation upgrade, hull refurbishment, 1 additional P-Tank+ Increase pot-wtr tank, id3,<br>20 000ft |
|                                   | Rated drilling depth               | 20 000ft  |
|                                   | Operating water depth (min-max)    | Min 15 ft □ max 250 ft  |
|                                   | Tugs required to move              | 1 tug / 12000 bhp / 75 tonnes bollard pull  |
| Jacking<br>Systems                | Type jacking system                | Marathon Le Tourneau, Electric  |
|                                   | Pinions                            | 3 pinions per leg   |
|                                   | Pinion rating (each leg)- Pull     | 302 kips  |
|                                   | Pinion rating (each leg)- Hold     | 506 kips  |
|                                   | Leg length                         | 360 ft  |
|                                   | Sea floor interface (each leg)     | Maximum bearing pressure 7138 kips / 131 sq. m spudcan  |
|                                   | Environmental capability           | Operating<br>Wind : 70 Knots<br>Waves: 40ft □ 250ft water depth for 12 sec.<br>Current: 2 Knots<br>Survival 250 ft water depth<br>Wind: 100 knots<br>Waves: 38ft □ 250ft water depth for 12 sec<br>Current: 2 Knots surface                             |
| Storage<br>Capacities             | Solid control mud tanks            | 4 sand trap tanks, Total = 21+21+21+21 = 84 bbls  |
|                                   | Trip tank                          | 2 tanks 25 + 25 = 50 bbls   |
|                                   | Strip tank                         | 10 bbls   |
|                                   | Active Mud Tanks                   | 2 tanks, Total = 347+384 = 371 bbls   |
|                                   | Reserve Mud Tanks                  | 2 tanks, Total = 362+312 = 674 bbls   |
|                                   | Drill Water                        | 10 Drill Water tanks, Total = 5522 bbls   |
|                                   | Potable Water                      | 3 Potable water tanks , Total = 2412 bbls   |
|                                   | Bulk mud and cement                | Mud 5100 cubic feet + cement 3400 cubic feet  |
|                                   | Sack Material                      | 2000 sacks  |
|                                   | Fuel                               | 2287 bbls   |
|                                   | Brine                              | Nil   |
|                                   | Others                             | No batch mixing tank (only 2 slug tanks 100 bbls capacity each) total=200 bbls.   |
| Rig<br>Equipment                  | Derrick- capacity                  | DSI Type:, Static 1,000,000 lbs Capacity ),Length 160 ft, base dimensions 30 ft X 30 ft   |
|                                   | Drawworks                          | National 1320 UE , 2 ea □E 752, DC motors, 2000 HP  |
|                                   | Auxiliary Brake (Elmagco)          | Baylor Elmagco , 7838   |
|                                   | Main Power                         | 4ea x CAT 3516, 1888 KVA, 1322 KW, 60 H□ 1200 RPM □enerators  |
|                                   | Emergency Power                    | Caterpillar D 399-TA, 1334 KVA, 800 KW.   |
|                                   | Power Conversion                   | OEM, 4 SCR 2000Amps   |
|                                   | Mud Pumps                          | 2 mud pumps, National 12 P 160, 2 ea □E 752 motors, 2000 Input HP   |
|                                   | Scalping Shale Shakers ( upstream) | Brandt , Dual Tandem Type, 2 ea   |
|                                   | Linear Motion Shale Shakers        | 2 ea Brandt VSM 300   |
|                                   | Mud cleaner                        | Derrick 2M48120F4A Hi-□ Dryer W/Desander and Deslitter  |
|                                   | Other solid control eqt            | 1 ea Derrick Vacuflo-1000, 1200□PM Cap, 5HP, 60 H□Degasser  |
|                                   | Mud Mixing equipment               | 2 ea hopper □ jet below deck + 1 ea super sx hopper □ jet on main deck  |
|                                   | Topdrive                           | National PS 500A  |
|                                   | Rotary Table                       | National C 375 , 37 1/2□Si□e, 1000 kips .   |
|                                   | Crown Block                        | National 760 FA , 583 S Tons, 7 sheaves, 60□diameter  |
|                                   | Travelling Block Hook              | National , 650 □ 500 , 500 Tons, 6 sheaves, 60□Diameter   |
|                                   | Swivel                             | Nil   |
|                                   | Deck cranes                        | Marathon LeTourneau , PCM 120 , 50 Tons□ 25□□ 5 Ton□ 85 ft  |
|                                   | Cementing unit                     | Howco, CPS 361 , 15000psi   |
|                                   | Drill floor instrumentation        | ID3   |
|                                   | Other major drill floor eqpt       | Nil   |
|                                   | Communications                     | 5 ea Motorola Hand held radios , 1 ea VHF horizon radio   |
|                                   | Drilling line                      | 1 1/2 □drilling line , 6X 19 IWRC EIPS type   |
| Blowout<br>Preventer<br>Equipment | Annular BOP                        | Hydril , □L type, 13 5/8□, 5000 psi rating,   |
|                                   | Diverter type                      | Shaffer , Bolted cover spherical type, 30 inch, 1000 psi rating   |
|                                   | Diverter type                      | Hydril , MSP type, 21 1/4 □, 2000 psi rating,   |
|                                   | Ram Preventers                     | Cameron , Double U type, 13 5/8□ 5000 psi Pressure rating,...   |

|               |                                       |   |
|---------------|---------------------------------------|---|
|               |                                       | Cameron , Single U type, 13 5/8" 5000 psi Pressure rating,...   |
|               | BOP Handling Eqpt                     | BOP beams and BOP trolley JD Neuhaus EH 25 25 Ton each  |
|               | Choke Manifold                        | Make,type,3 1/16" 10000psi, 2 paths, Coflexip hose 3" ID X 50" length, 10000 psi WP ,15000 psi Test   |
|               | BOP Control System                    | Ross Hill accumulator   |
| Well Services | Logging unit                          | Schlumberger MAXIS unit   |
| Equipment     | Coil tubing unit                      |   |
|               | Travel Packing / Filtration equipment |   |
|               | Other Integrated services equipment   | Sperry sun data unit  |
|               | Cement unit                           | Howco cementing unit  |
| Safety        | Lifeboats                             | Whittaker, CA 5001 , 50 man capacity, 2 ea  |
|               | Liferafts                             | VIKIN" 3 ea Model 20,20,20, 2 each DKF 20,20, RFD Surviva 2each 20, 20 man , Zodiac 2 each 25, 25   |
|               | H2S safety systems                    | 30 min Scott air paks for 36 persons, 15 min scott pack =174,<br>Cascade breathing system ,c/w Bauer compressors " piping to manifolds " breathing apparatus                                |
| Equipment     | Fire detection                        | Servoteknikk fixed fire detection system, Model Servo Master -1210211   |
|               | Combustible gas detection             | MSA 5800 A combustible gas detection system w/ sensors  |
|               | H2S Detection                         | MSA 5800 A Fixed system w/ sensors  |
|               | Gas detection                         | MSA 5800 A fixed system with sensors  |
|               | Fire fighting                         | Kidde CO2 fixed system: Engine rm ,mud pits, paint rm " emerg gen rm<br>Foam Fire fighting system for helideck<br>CO2 Portable fire extinguishers<br>Fire Fighting stations using sea water |

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Al-Khobar, Kingdom of Saudi Arabia

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