



PAD DRILLING RIG 57

<u>CAPACITY</u> -	4000 m, Floor height 5.72 m including a 1.22m pony sub moving system.
<u>DRAWWORKS</u> -	TSM 850, single drum, grooved for 28.6 mm drill line powered by a single 1150hp AC motor rated at 188,000daN on 10 lines.
<u>RIG POWER</u> -	Three Caterpillar C32 generator sets rated at 910 kW each for a total of 2730kW. Eaton drives. Curent Power Systems control program.
<u>SUBSTRUCTURE</u> -	One piece step down on a pony sub moving system. Casing capacity 177,920 daN irrespective of setback. Setback capacity 177,920 daN. Clear height 4.7m (includes 1.2m pony sub moving system).
<u>MAST</u> -	Hodgson Telescopic Double Mast, static hook load w/ 10 lines rated at 195,700 daN. Clear height 32.3 m and base width 4.41 m.
<u>TOP DRIVE</u> -	Integrated Tesco 350 EXI 600 Top Drive w/ integrated swivel rated at 311,360 daN. Input power rated at 447 kW w/ 4067 daN-m continuous drilling torque and 6101 daN-m make-up/breakout torque. Top speed at 220 RPM.
<u>FLOOR TOOLS</u> -	Varco ST-80 iron roughneck.
<u>BLOCK-HOOK</u> -	Integrated Block rated and 222,400 daN.
<u>ROTARY TABLE</u> -	National 27 ½, 699 mm opening, rated at 445,000 daN.
<u>MUD PUMPS</u> -	Two 1600 Hp triplex mud pumps powered by one OEM TT1500 AC induction motor each rated at 970 kW. 5,000psi modules and a 5,000psi standpipe.
<u>MUD SYSTEM</u> -	192 m3 two tank system comprised of 7 compartments including an 8.6 m3 pill compartment and (2) pump buildings. Equipped w/ (6) agitators, (4) 127 mm x 152 mm centrifugal pumps and a low pressure mix system. 29.6 m3 scalping tank w/ (2) 152 mm x 127 mm variable speed centrifugal pumps w/ 356 mm impellers and a 3.9 m3 trip tank. 61.1 m3 premix tank system comprised of 5 compartments. Equipped w/ (5) agitators, (2) 127 mm x 152 mm centrifugal pumps.
<u>MOVING SYSTEM</u> -	Hodgson walking beam hydraulic moving system capable of moving entire drilling module in linear motion and side shift. Seven 50' long suitcases for a total of 350 ft (106m) in utility suitcases. Suitcase attachment points on both the ODS and DS of the substructure
<u>SHAKERS</u> -	Three Mongoose on the main mud tanks at the complex. One Mongoose shaker on premix tank. Three NOV Venom shakers on the scalping tank at drilling module..
<u>CATWALK</u> -	Jaco hydraulic powered open center catwalk capable of moving tubulars up to 4400 kg and 14.5m in length.
<u>B.O.P. EQUIPMENT</u> -	BOP stack as per contract, 6-station 680 L, 21,000 kPa accumulator, PLC electric remote. Flare tank.
<u>FUEL & WATER TANK</u> -	30,000 L main fuel storage, 10,000L boiler fuel storage. Water storage 65 m ³
<u>BOILER</u> -	Two 75kW (100hp) boilers.
<u>DRILL STRING</u> -	As per contract.
<u>MISCELLANEOUS</u> -	Genie, steel matting under drilling module.
<u>WINTER LOADS</u> -	37 plus drill string.

All ratings quoted herein are manufacture specifications. AKITA's normal operating parameters are 90% of manufacturers mast rating and 80% of mud pump manufacturer pressure rating. Operation of rig equipment beyond these parameters requires approval from AKITA field office management.