



## PAD DRILLING RIG 28

<b><u>CAPACITY</u></b> -	3,000 m, 5.44 m KB. Floor height 4.99 m to table including matting.
<b><u>DRAWWORKS</u></b> -	AC Drawworks, grooved for 31.7 mm drilling line, w/ twin disc brakes and regenerative braking. Powered by TT1500 Induction motor.
<b><u>RIG POWER</u></b> -	Three Caterpillar 3412C rated at 700 kW, c/w Kato 700 kW 575 Volt AC Generators. Alstom generator controls and VFD's.
<b><u>SUBSTRUCTURE</u></b> -	Hodgson single piece substructure. Casing capacity irrespective of setback 200,000 daN. Setback capacity 178,000 daN. Clear height 3.92 m.
<b><u>MAST</u></b> -	Hodgson mast, static hook load w/ 10 lines rated at 222,400 daN and 8 lines rated at 213,500 daN. Clear height 41.5 m.
<b><u>TOP DRIVE</u></b> -	Tesco 250 ton EMI 400 AC electric top drive rated at 222,400 daN. Input power rated at 298 kW w/ 2847 daN-m continuous drilling torque and 4339 daN-m make-up/breakout torque.
<b><u>FLOOR TOOLS</u></b> -	Varco ST-80 iron roughneck.
<b><u>BLOCK-HOOK</u></b> -	American Block 350 ton becket rated at 311,360 daN.
<b><u>ROTARY TABLE</u></b> -	Lewco 27 ½, 699 mm opening, rated at 445,000 daN.
<b><u>MUD PUMPS</u></b> -	Twin 1300 Hp Lewco 1312 triplex mud pumps powered by an OEM TT1500 AC induction motor each rated at 970 kW.
<b><u>MUD SYSTEM</u></b> -	Two tank system, 9 compartments, 160 m <sup>3</sup> . Mix tank pump room includes (2) 152 mm x 127 mm centrifugal pumps w/ 356 mm impellers for mixing and mud row. The two tanks have (6) 7.5 kW agitators. The scalping tank at the main drilling complex holds 18 m <sup>3</sup> and has (2) Mission Magnum 5" x 6" x 14" variable speed centrifugal pumps. The Kayden premix tank holds 55 m <sup>3</sup> .
<b><u>MOVING SYSTEM</u></b> -	Walking beam hydraulic moving system capable of moving entire drilling module in linear motion or rotation.
<b><u>SHAKER</u></b> -	Five Brandt King Cobra's. ( <i>three scalping, two @ central facility</i> )
<b><u>CATWALK</u></b> -	Hunterwood Hydraulic power catwalk capable of moving tubulars up to 14.3 m and 4,000 kg.
<b><u>B.O.P. EQUIPMENT</u></b> -	Hydril MSP 540 mm 14 MPa annular diverter. 6-station 568 L, 21,000 kPa accumulator, PLC electric remote.
<b><u>FUEL &amp; WATER TANK</u></b> -	Fuel storage 22,000 L. Water storage 60 m <sup>3</sup> .
<b><u>BOILER</u></b> -	Two Indeck 75 kW steam boilers.
<b><u>DRILL STRING</u></b> -	9" DC's, 6 ¼ " DC's, 5 ½ " Hevi-wate, and 5 ½ " Drill Pipe.
<b><u>R.M. QUARTERS</u></b> -	ATCO skid unit.
<b><u>WINTER LOADS</u></b> -	52 loads (Excluding camp).

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.