



## RIG 41 PAD

<b><u>CAPACITY</u></b> -	9.14m Floor height. 6500m
<b><u>DRAWWORKS</u></b> -	Pacific Rim Engineered Products 1500hp AC Drawworks, grooved for 34.9 mm drilling line, with Wichita 436H spring applied emergency brakes which are capable of holding full hook-load, and regenerative braking. Powered by one Amerimex 1500hp Induction motor.
<b><u>RIG POWER</u></b> -	Three Caterpillar 3512 generator sets rated at 1100 kW output each, 3300kW total available, equipped to run on bi-fuel. Cat 3306 ATAAC cold start gen rated at 200kW. GE Converteam generator controls and VFD's. Rig will be capable of running on highline power through operator supplied transformer.
<b><u>SUBSTRUCTURE</u></b> -	Lee C. Moore HMR Slot Box triple box. The substructure has a 1.5 m x 1.5m cutout on the DS that will allow the rig to walk sideways down the well row or in line with the well row. Casing capacity irrespective of setback 333,600 daN. Setback capacity 333,600 daN. Clear height 8.0m.
<b><u>MOVING SYSTEM</u></b> -	Columbia walking system integrated in the bottom box of the substructure capable of moving in the x and y directions, and rotating about well center. Drilling module and central complex are connected by 90m of umbilical suitcases.
<b><u>MAST</u></b> -	Lee C. Moore hydraulically raised, static hook load w/ 10 lines rated at 333,600 daN. Clear height 43.3m.
<b><u>TOP DRIVE</u></b> -	Integrated Canrig 8050 rated at 444,800 daN static hook load. 57,100Nm (42,100ft-lbs) continuous torque up to 100rpm; 21,600Nm (15,900ft-lbs) up at the max speed of 265rpm. Maximum breakout torque 122,000 Nm (90,000 ft-lbs).
<b><u>FLOOR TOOLS</u></b> -	Varco ST-100 iron roughneck.
<b><u>BLOCK-HOOK</u></b> -	400 ton Becket rated at 355,840 daN.
<b><u>ROTARY TABLE</u></b> -	HongHua 37 ½, 953 mm opening with a hydraulic drive capable of producing 49,500 Nm (36,450 ft-lbs) at 10 rpm.
<b><u>MUD PUMPS</u></b> -	Two HHF 1600 Hp triplex mud pumps with 7,500psi modules, Each pump is powered by one Amerimex 1500hp AC induction motor rated at 1119 kW. 7,500psi mud circulating system.
<b><u>MUD SYSTEM</u></b> -	Two tank 185 m <sup>3</sup> electrically actuated mud system. The scalping tank at the main drilling complex holds 20 m <sup>3</sup> and has (2) Mission Magnum 6" x 8" x 14" variable speed centrifugal transfer pumps.
<b><u>SHAKER</u></b> -	Four Derrick Dualpool shakers with scalping decks and vapor extraction hoods at the scalping tank.
<b><u>CATWALK</u></b> -	Northrig hydraulic power catwalk capable of moving tubulars up to 14.3 m and 4,000 kg.
<b><u>B.O.P. EQUIPMENT</u></b> -	346mm 34,500 kPa Shaffer Spherical annular and (3) 346mm 34,500 kPa Hydril V ram preventers. 6-station 1134 L, 21,000 kPa accumulator, PLC electric remote. Flare tank. BOP test stump and skid.
<b><u>FUEL &amp; WATER TANK</u></b> -	Fuel storage 30,000 L. Water storage 60 m <sup>3</sup> .
<b><u>BOILER</u></b> -	Two 93kW (125hp) Saskatoon boilers with dual fuel burners.

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.



**DRILL STRING** -

5,500m of 4 ½" SS105 16.6 lbs/ft drill pipe with DS40 connections, 60 joints of 4 ½" heavyweight with DS40 connections, twelve 6 ½" drill collars, and three 9" drill collars.

**MISCELLANEOUS** -

600 Gallon Vacuum, Z60 genie, wood matting under complex and steel matting under drilling rig. Katch Kan system.

**WINTER LOADS** -

42 plus drill string.