000 P4 PERFORMANCE SPECIFICATIONS

DEPTH CAPACITY CORING (WIRELINE OR CONVENTIONAL)

B WIRELINE 3,500 FT (1,070 M) 2,000 FT (610 M) N WIRELINE H WIRELINE 1,500 FT (460 M) P WIRELINE 1,000 FT (305 M)

DEPTH RATINGS ARE BASED ON VERTICAL AND DRY HOLE

MAIN HOIST

SINGLE LINE CAPACITY: BARE DRUM 9.000 LB (4.082 KG) DOUBLE LINE CAPACITY: BARE DRUM 18,000 LB (8,164 KG) LINE SPEED: BARE DRUM 148FT/MIN (45M/MIN) CABLE SIZE: 110 FEET (33.5 M) x 9/161N (14.3MM)

WIRELINE

CAPACITY: 3,200 FT (975 M) OF 3/16 IN (4.76 MM) LINE PULL BARE DRUM: 2,500 LB (1,134 KG) LINE PULL FULL DRUM: 840 LB (381 KG) LINE SPEED: BARE DRUM 390 FT/MIN (119 M/MIN) FULL DRUM 1,260FT/MIN (384 M/MIN)

MAST AND FEED SYSTEM

FEED TRAVEL: 6 FT (1.830 MM)

FEED SPEEDS: FAST AND SLOW WITH VARIABLE CONTROL

THRUST: 13,300 LB (6,030 KG) PULL: 20,000 LB (9,070 KG) DRILLING ANGLE: 45 TO 90 DEGREES ROD PULL LENGTH: 20 FT (6.09 M)

POWER UNIT

MFG.: CUMMINS

MODEL: 4BTA 3.9 LITER 4 CYLINDER

POWER: 116 HP (86.5 KW)

RPM: 2,500

ENGINE TYPE: DIESEL TURBOCHARGED/AFTER COOLED

COOLING: WATER

OTHER ENGINES AVAILABLE ON REQUEST

HYDRAULIC SYSTEM

PRIMARY PUMP: 3.500 PS1-43 GPM (24.1MPA-162 LPM) SECONDARY PUMP: 3,000 - 15GPM (20.6 MPA - 56 LPM) AUXILIARY PUMP: 2,500 PSI - 8 GPM (17.2 MPA - 30 LPM) HYDRAULIC OIL COOLING: AIR

DRILLHEAD AND SPINDLE SPEEDS

POWER: HYDRAULIC MOTOR -VARIABLE SPEED/REVERSIBLE FINAL DRIVE: 4 IN HV CHAIN DRIVE IN OIL BATH-2.5 RATIO SPINDLE: 4 5/81N (117MM)

SPINDLE SPEEDS:

TOROUE, FT LB (NM) GEAR RATIO SPEED (RPM) 1 ST 6.63:1 130-196 3,232-2,218 (4,382-3,007) 2ND 3.17:1 270-410 1,545-1,060 (2,095-1,437) 3RD 1.72:1 500-756 839-575 (1,138-780) 488-335 (662-454) 4TH 1.00:1 857-1,300 RANGE SELECTION: MANUAL CONTROL FROM OPERATOR'S STATION

HINGED HEAD: SWING AWAY

CHUCK ASSEMBLY

TYPE: HYDRAULIC OPEN, SPRING CLOSED MAXIMUM INSIDE DIAMETER: 4 5/8 IN (117MM) HOLDING CAPACITY: 40,000 LB (18,143 KG)

DRILL BASE SUPPORTS

OUANTITY: 4

PAD DIAMETER: 12 IN (305 MM) TRAVEL LENGTH: 12 IN (305 MM) WEIGHT

HIGHWAY FLY-IN MAJOR COMPONENTS WET TOTAL WET TOTAL WET

7,255 LB (3,291 KG) 7,000 LB (3,175 KG) 6,515 LB (2,955 KG)

DRILLHEAD:

1.040 LB (472 KG) 1.040LB (472KG) 1.040LB (472KG) DRILL BASE:

680 LB (309 KG)

680 LB (309 KG) 680 LB (309 KG) LOWER MAST: 1.100 LB (500 KG)

1.100 LB (500 KG)

1,100 LB (500 KG)

MIDDLE AND UPPER MAST: 750 LB (340 KG)

ENGINE COMPONENT WET: 1,125 LB (511 KG) 1,125 LB (511 KG) 1,125 LB (511 KG)

HYDRAULIC COMPONENT WET:

900 LB (408 KG) 900 LB (408 KG) 900 LB (408 KG)

750 LB (340 KG)

750 LB (340 KG)

DRAW WORKS COMPONENT INCLUDING CABLE:

920 LB (417 KG) 920 LB (417 KG) 920LB (417 KG)

104 LB (47 KG)

TOWING PACKAGE & MISCELLANEOUS: FUEL TANK WET:

125 LB (57 KG)

125 LB (57 KG)

BATTERY BOX & BATTERY:

134 LB (61 KG) 134 LB (61 KG)

DRILL BASE SUPPORTS (4): 100 LB (45 KG)

100 LB (45 KG)

OPERATOR'S PLATFORM:

22 LB (10 KG) 22 LB (10 KG)

MUD TANK OUTRIGGERS (4): 104 LB (47 KG)

WHEELS & STUB SHAFT (4):

200 LB (91 KG)

HITCH: 55 LB (25 KG)

DIMENSIONS

LENGTH WIDTH HEIGHT DRILL BASE:

114 IN (2,896 MM) 64 IN (1,626 MM) 58 IN (1.473 MM)

LOWER MAST:

131 IN (3,328 MM) 26 IN (660 MM) 33 IN (838 MM)

MIDDLE MAST:

129 IN (3,277 MM) 23 IN (584 MM) 22 IN (559 MM)

UPPER MAST:

110 IN (2,794 MM) 21 IN (533 MM) 29 IN (737 MM)

ASSEMBLED MAST:

30.8 FT (9.4 M)

DRILL HEAD: HÓRIZONTAL VIEW 31 IN (787 MM) x 44 IN (1.118 MM) VERTICAL VIEW 21 IN (533 MM) x 44 IN (1,118MM)

ENGINE COMPONENT:

43.5 IN (1,105 MM) x 49 IN (1,245MM) x 29 IN (737 MM)

HYDRAULIC COMPONENT:

37.5 IN (953 MM) x 49.5IN (1,257 MM) x 29 IN (737 MM) DRAW WORKS COMPONENT:

27.8 IN (706 MM) x 56.5 IN (1,435 MM) x 26 IN (660 MM)

STANDARD EQUIPMENT

MAX PRESSURE: 700 PS1 (4.9 MPA)

-HYDRAULIC MAST RAISE -DERRICK IN THREE SECTIONS -TOWING PACKAGE -FUEL TANK 34 GAL (125 L) -HYDRAULIC OIL RESERVOIR FILL -FUEL FILTER & WATER PUMP & FILTRATION SEPARATOR

OPTIONS

-HYDRAULIC P-SIZE HOLDING CLAMP -HYDRAULIC MUD MIXER -SINGLE, LARGE DIAMETER MAIN HOIST -HIGH CAPACITY WIRELINE HOIST -MAST LIGHTING KIT SHEAVE -HYDRAULIC DRIVEN MUD PUMP FMC -SKID MOUNTING W1122BCD MAX FLOW: 37 GPM (140 LPM) -CRAWLER MOUNTING

ALL WEIGHTS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE