

Applied Drilling Engineering Solution Manual

TABLE 1.1 – HEATING VALUE OF VARIOUS FUELS

Fuel Type	Density (lbm/gal)	Heating Value (Btu/lbm)
diesel	7.2	19,000
gasoline	6.6	20,000
butane	4.7	21,000
methane	-	24,000

components, thus minimizing shock and vibration problems.

Direct-drive rigs accomplish power transmission from the internal combustion engines using gears, chains, belts, and clutches rather than generators and motors. The initial cost of a direct-drive power system generally is considerably less than that of a comparable diesel-electric system. The development of hydraulic drives has improved greatly the performance of this type of power system. Hydraulic drives reduce the shock and vibrational problems of the direct-drive system. Torque converters, which are hydraulic drives designed so that output torque increases rapidly with output load, are now used to extend the speed-torque characteristic of the internal combustion engine over greater ranges that are better suited to drilling applications. The use of torque converters also allows the selection of engines based on running conditions rather than starting conditions.

Power-system performance characteristics generally are stated in terms of output horsepower, torque, and fuel consumption for various engine speeds. As illustrated in Fig. 1.13, the shaft power developed by an engine is obtained from the product of the angular velocity of the shaft, ω , and the output torque T :

$$P = \omega T \dots \dots \dots (1.1)$$

The overall power efficiency determines the rate of fuel consumption w_f at a given engine speed. The heating values H of various fuels for internal combustion engines are shown in Table 1.1. The heat energy input to the engine, Q_i , can be expressed by

$$Q_i = w_f H \dots \dots \dots (1.2)$$

Since the overall power system efficiency, E_f , is defined as the energy output per energy input, then

$$E_f = \frac{P}{Q_i} \dots \dots \dots (1.3)$$

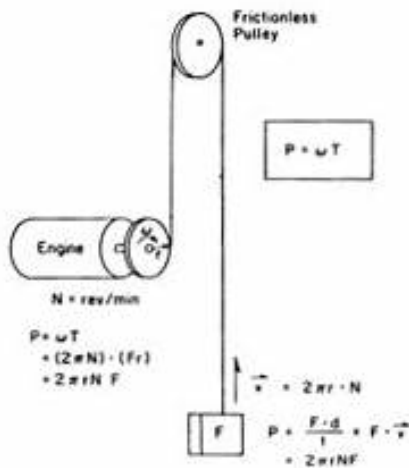


Fig. 1.13 – Engine power output.

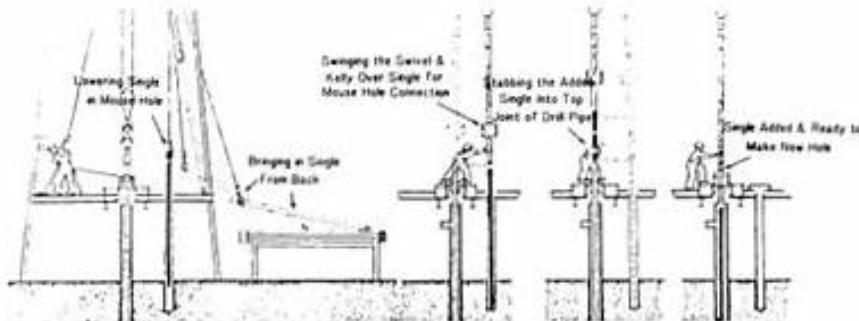


Fig. 1.14 – Making a connection.¹²

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