

Also included is a method for blanking off while the well is producing normally or blanking off while a survey is in process. FIGURE 7-1 illustrates how the "Y" tool was initially installed with a submersible pump.

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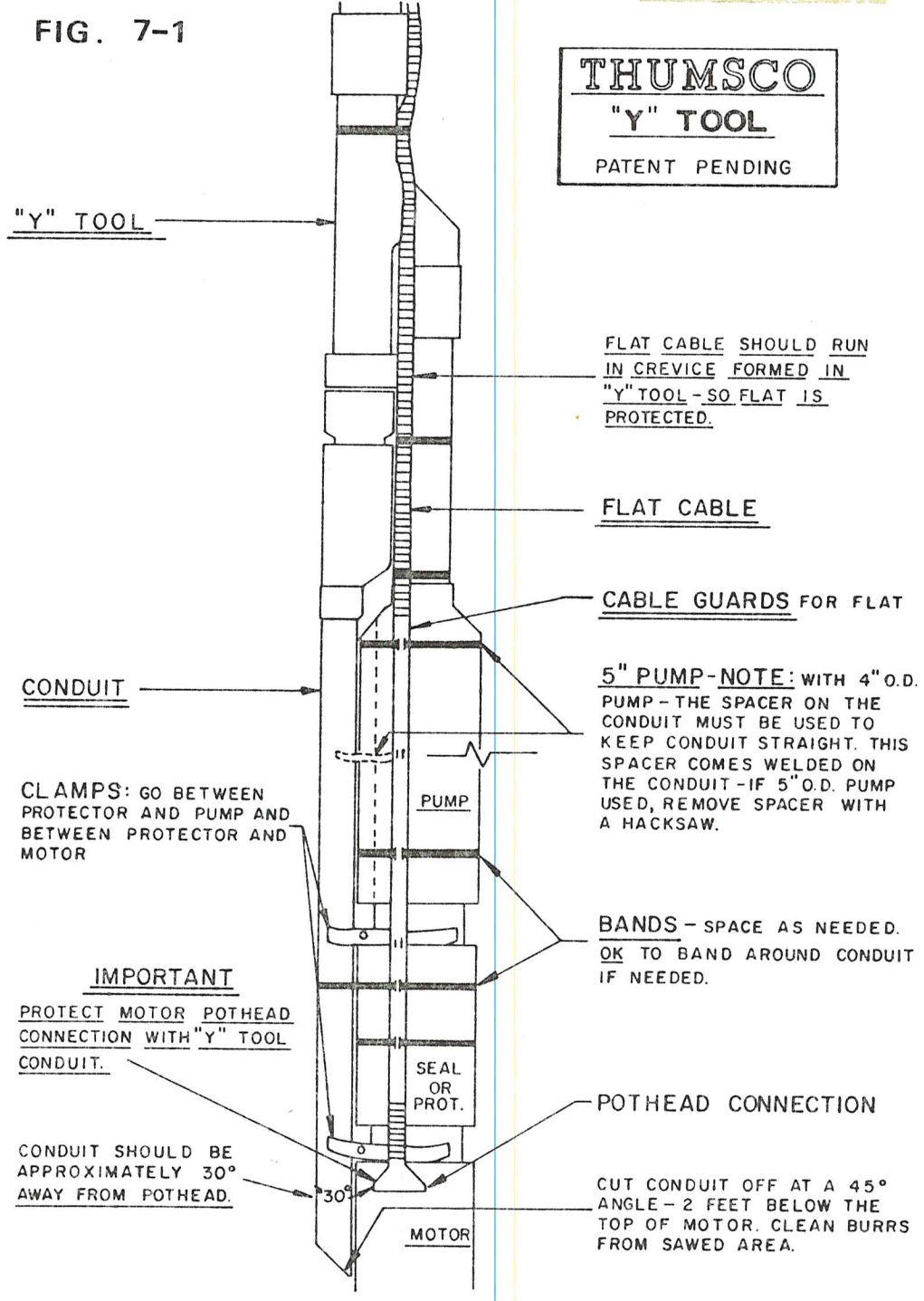


FIG. 7-1

**THUMSCO**  
"Y" TOOL  
 PATENT PENDING

"Y" TOOL

FLAT CABLE SHOULD RUN IN CREVICE FORMED IN "Y" TOOL - SO FLAT IS PROTECTED.

FLAT CABLE

CABLE GUARDS FOR FLAT

CONDUIT

5" PUMP-NOTE: WITH 4" O.D. PUMP - THE SPACER ON THE CONDUIT MUST BE USED TO KEEP CONDUIT STRAIGHT. THIS SPACER COMES WELDED ON THE CONDUIT - IF 5" O.D. PUMP USED, REMOVE SPACER WITH A HACKSAW.

CLAMPS: GO BETWEEN PROTECTOR AND PUMP AND BETWEEN PROTECTOR AND MOTOR

BANDS - SPACE AS NEEDED. OK TO BAND AROUND CONDUIT IF NEEDED.

IMPORTANT  
PROTECT MOTOR POTHEAD CONNECTION WITH "Y" TOOL CONDUIT.

POTHEAD CONNECTION

CONDUIT SHOULD BE APPROXIMATELY 30° AWAY FROM POTHEAD.

CUT CONDUIT OFF AT A 45° ANGLE - 2 FEET BELOW THE TOP OF MOTOR. CLEAN BURRS FROM SAWED AREA.