

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G21.505.2
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AT&T Co Standard

POLE REMOVAL
POLE DERRICK METHOD

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1. GENERAL

1.01 This practice describes several setups for the use of the pole derrick in the removal of poles. Pole removal in connection with pole line moving is described in other sections of the Outside Plant Construction and Maintenance Practices.

2. SAFETY PRECAUTIONS

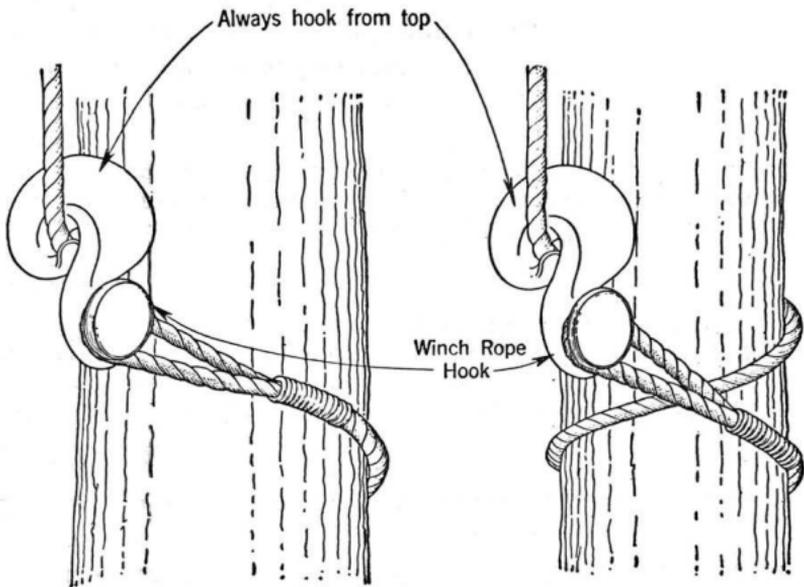
2.01 Those operating a pole derrick shall be familiar with the precautions and general instructions outlined in the following Outside Plant Construction and Maintenance Practices:

- (a) Pole Removal, General
- (b) Pole Derricks, General
- (c) Pole Derricks (type being used)
- (d) Wire Rope Slings
- (e) 15-Ton Pole Jack

2.02 Poles shall not be rocked with the derrick to loosen them in the ground.

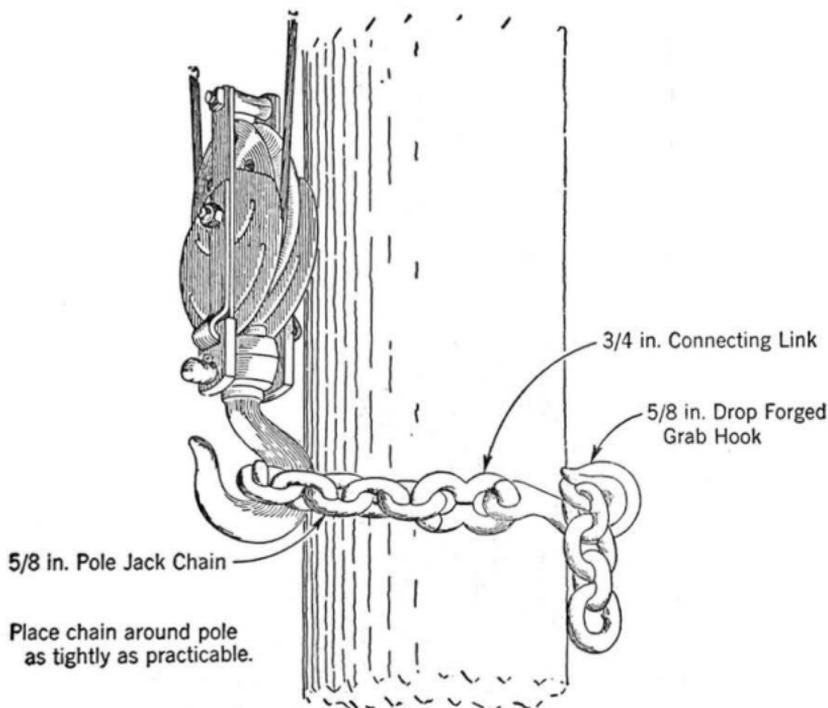
3. ATTACHMENT OF WINCH LINE AND BLOCKS

3.01 A winch line can be attached to a pole by placing it around the pole and placing the winch line hook over the line. The hook should always be hooked down over the line as shown in the following figure so that it will not be so likely to become disengaged by its own weight should the line become slack. The winch line should be wrapped around the smaller poles twice so that the tail of the eye will not come into the hook.

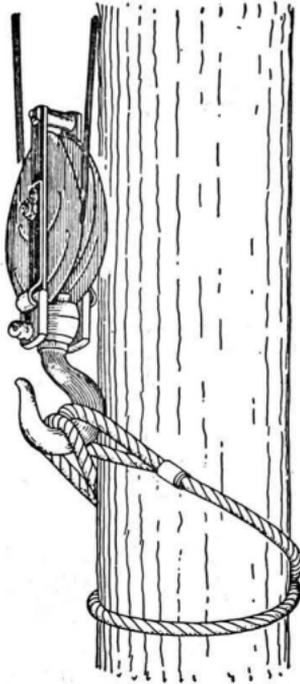


3.02 The wire rope sling, described in the practice "Wire Rope Slings," may be used for attaching the winch line to poles instead of wrapping the winch line around the pole as shown in Paragraph 3.01.

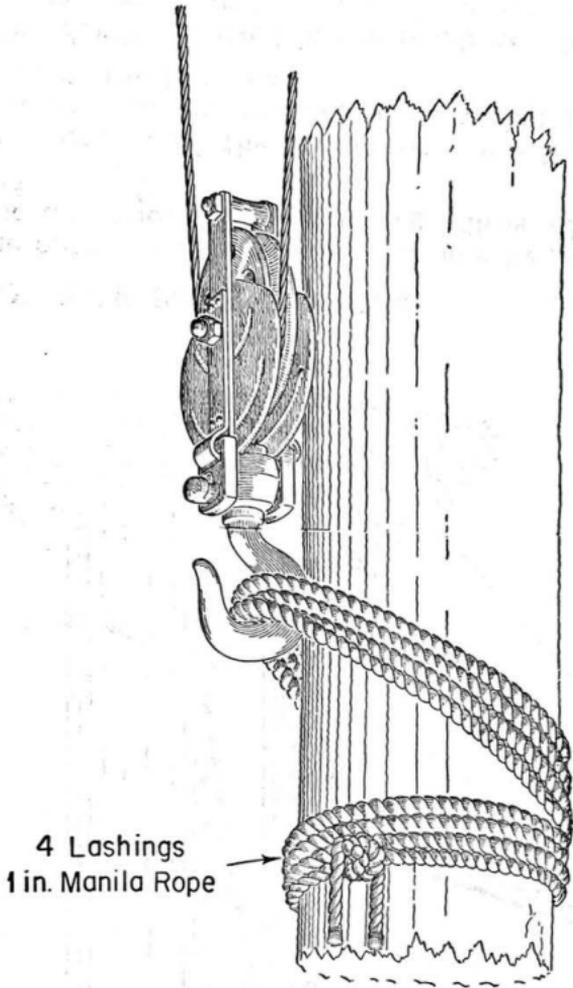
3.03 A 5/8-inch pole jack chain used for attaching wire rope blocks shall be fastened to poles as shown below.



3.04 A wire rope sling used for attaching wire rope blocks shall be fastened to poles as shown below.

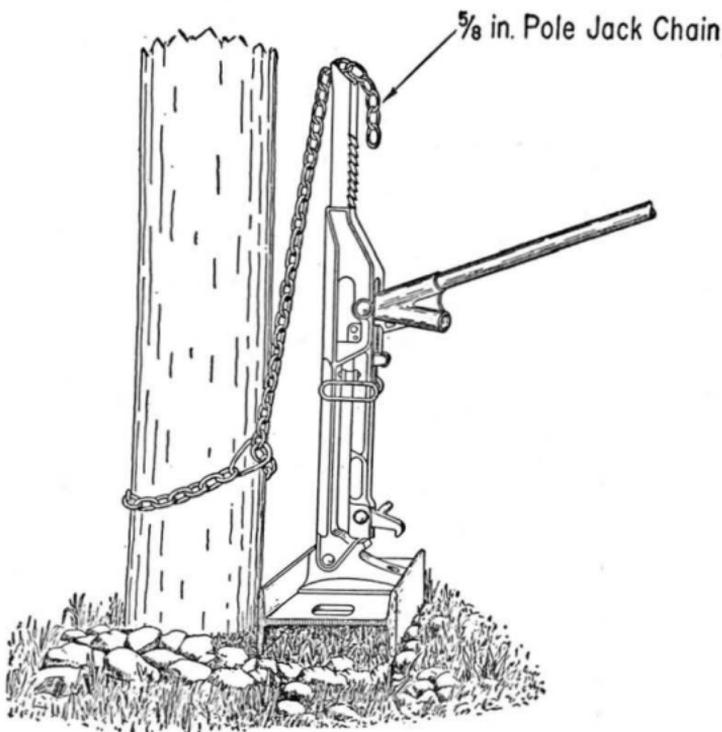


3.05 Manila rope lashings used for attaching wire rope blocks to poles shall be made as shown below.



4. POLE JACK

4.01 When the use of a pole jack is required for starting a pole, it shall be set up as shown below. Pulling can be facilitated by removing some of the dirt at the ground line.



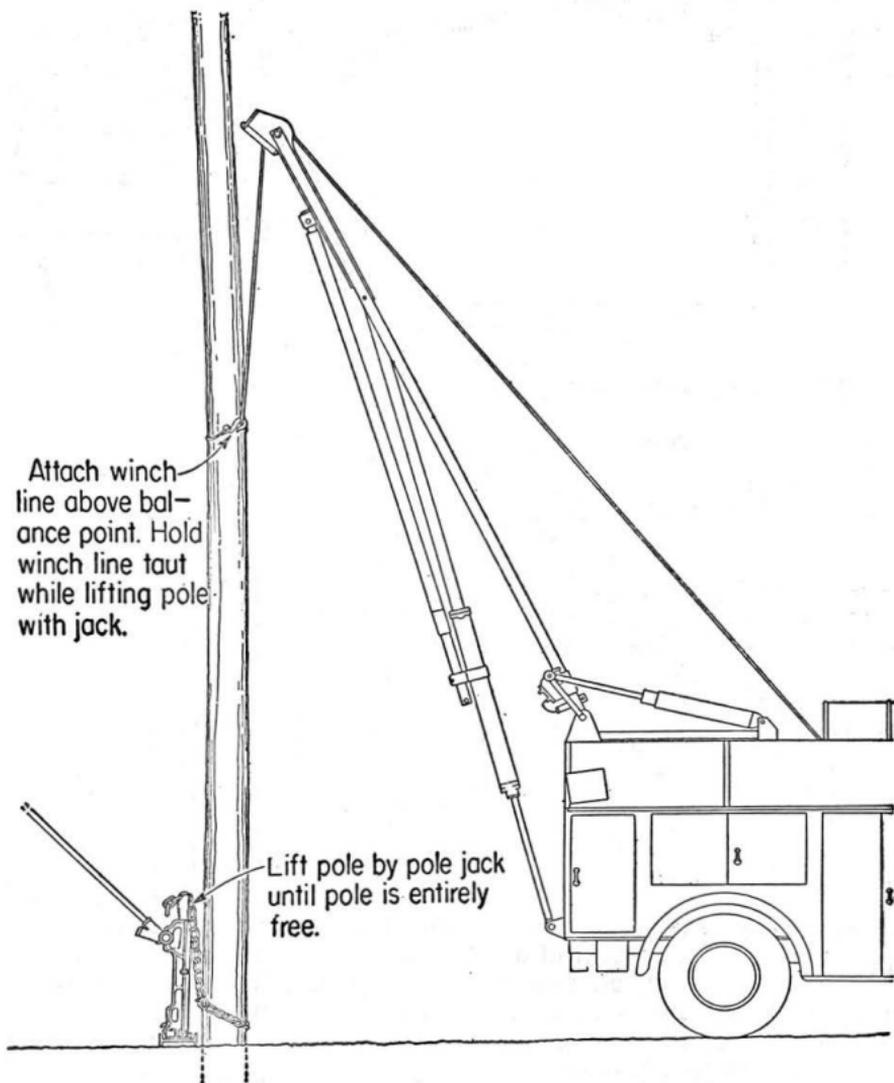
5. USES OF THE POLE DERRICK

5.01 The operations for removing a pole by means of a derrick are about the same regardless of the type of derrick used.

5.02 The location of the truck for removing poles is the same as that for placing poles which is described in other sections of the practices.

5.03 If the derrick is used in the truck position, a pole jack shall be used to free the pole. The use of the jack shall be continued until there is no danger of overloading either derrick or truck because of heavy ground resistance. The pole should be steadied while being raised with the jack by keeping

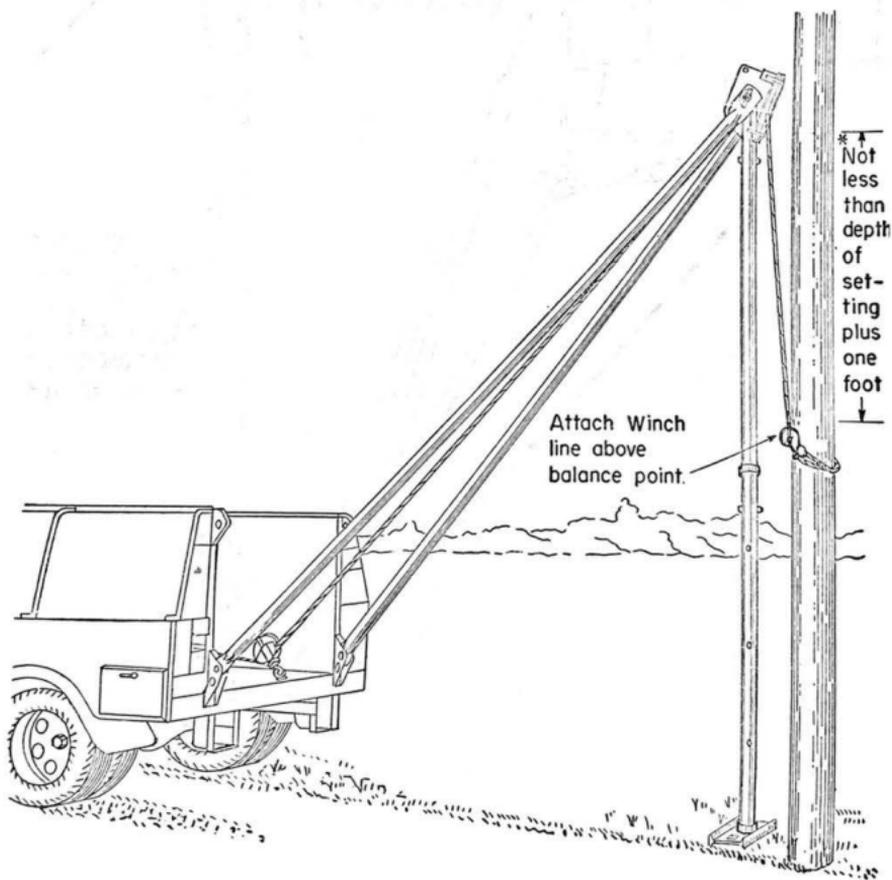
a slight tension on the winch line. Always use both derrick supports, on trucks so equipped, under the truck chassis in pulling poles when a ground prop is not used.



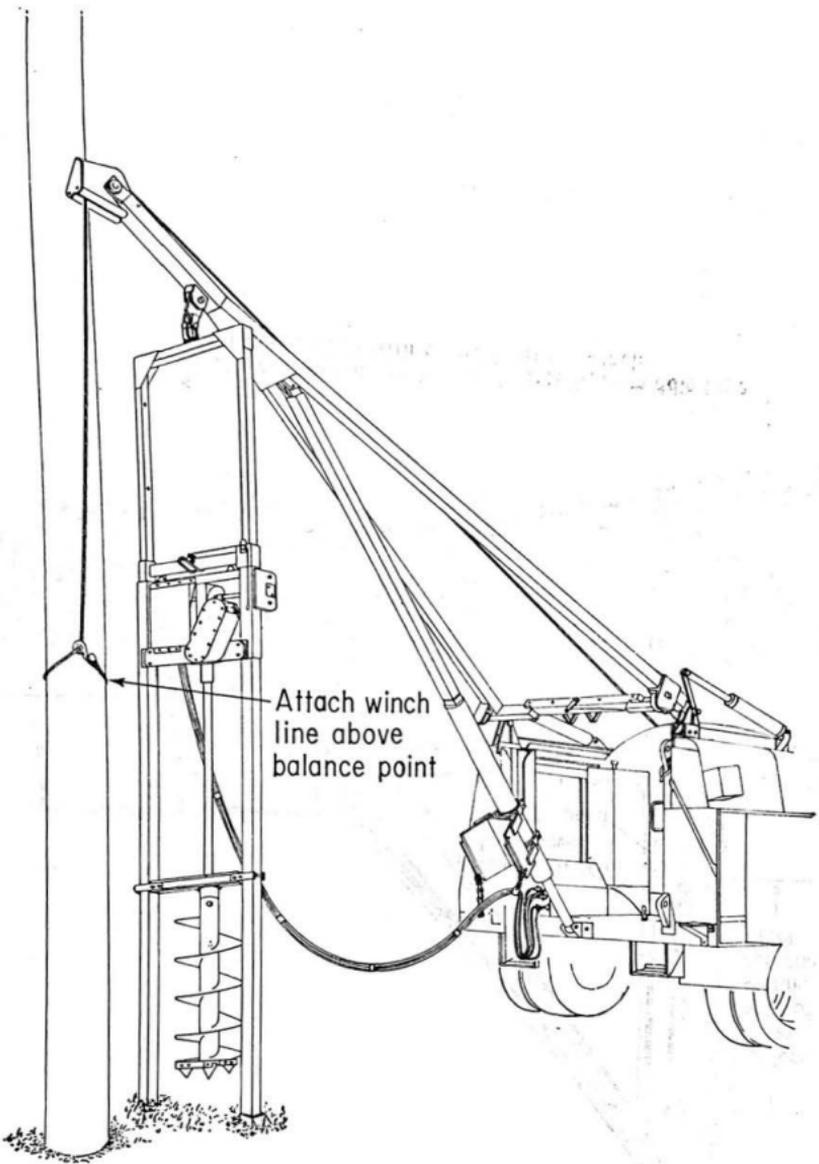
5.04 Unless the pole is to be pulled out of the ground by means of a pole jack, the derrick shall always be operated in the ground position. With the middle type derricks, the ground position is with the middle leg resting vertically on the ground. With the T-type derrick and the hydraulic operated

derrick, the ground position is with the vertical prop supporting the derrick head from the ground. With truck mounted earth-boring machine derricks, the ground position is with the auger run down to a firm footing and locked in the ground position for support.

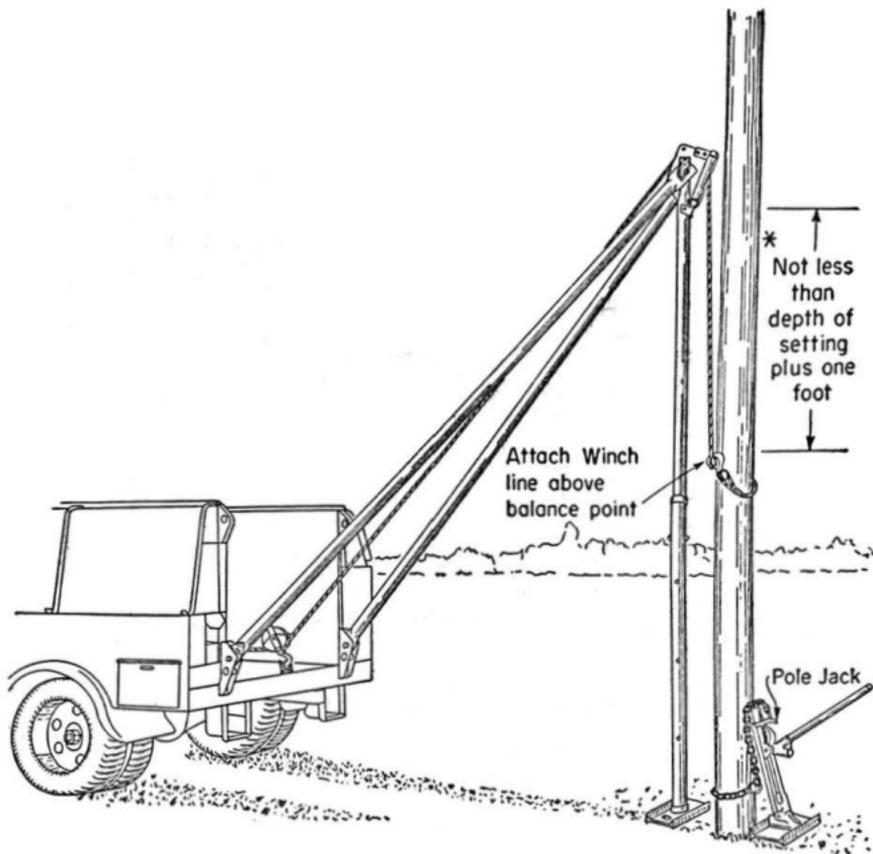
5.05 With the derrick in the ground position poles can generally be removed without necessity of using the pole jack provided ground conditions and the taper of the butt permit starting the pole without overstressing the equipment. If poles do not start readily they should be loosened by digging out around the butt and by using the pole jack if necessary. The following illustrations are typical examples of the derrick in the ground position.



* Not a requirement on T type, hydraulic, or middle type derricks equipped with a double drum winch.

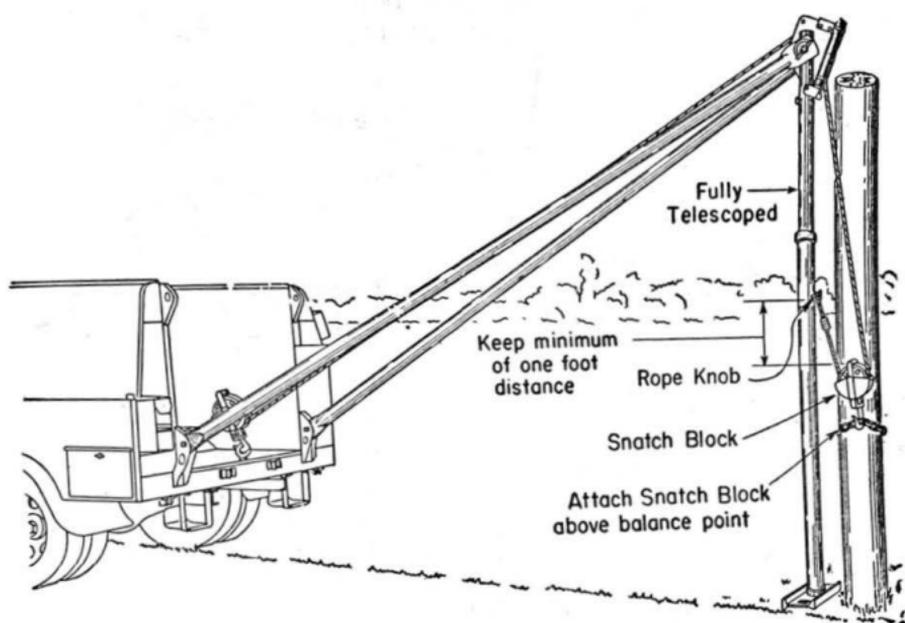


5.06 When the use of a pole jack is required to start a pole with the derrick in the ground position, it shall be set up as shown.

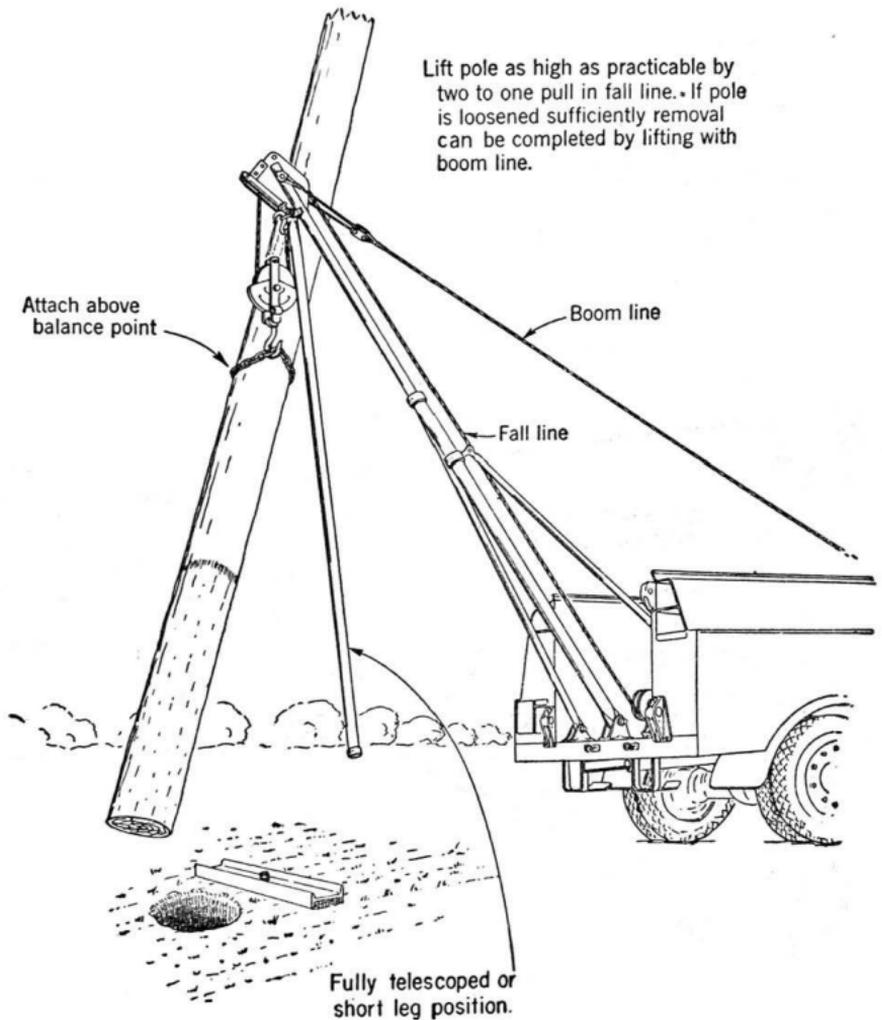


* Not a requirement on T type, hydraulic, or middle type derricks equipped with a double drum winch.

5.07 A double line pull, using a wire rope snatch block attached to the pole and the end of the winch line attached to the rope knob or shackle on the derrick, can be used to pull short poles and pole butts.



5.08 If the truck is equipped with a double drum winch or the hydraulic power operated pole derrick, a two to one pull can also be used to advantage for removing the longer poles. Before using a double line pull, the vertical leg of the pole derrick should always be fully telescoped.



5.09 Short stubs or butts of poles broken or cut off near the ground line can be pulled with the winch line running directly over a sheave on a spindle bar in the lower position and supported by a sheave support. If the truck is equipped with derrick supports they should be used. The same general precautions should be observed as when pulling poles with the derrick.

