Manufacturer of
TOMCAT II-A & ADD-A-CAT II-A

- Solar power supplies for cathodic protection
  - Systems built for your applications

Detailed Information on TOMCAT II-A

- The following slides cover the topics of
  - installing a ground bed
    - horizontal placement
    - vertical placement

Ground Bed Installation

- TOMCAT II-A ground bed installation is different from the standard ground bed
  - operates with a ground bed of 8 ohms or less rather than the conventional thinking of 1 ohm or less
- Most common TOMCAT II-A applications
  - STI-P3 underground storage tanks and associated piping
  - well coated natural gas distribution systems

Natural Gas Distribution System Ground Beds

- The most common anode installations
    - horizontal placement at a depth of four feet
    - vertical placement at thirteen feet

Horizontal Placement

- Using a back hoe with a 12” wide bucket dig a 6’ long at a depth of approx. 4 feet

- This trench should be parallel to your pipeline and approx. 3 to 10 feet away

Horizontal Placement

- Using a shovel dig a 2” to 3” wide trench from the end of this trench to the location of your structure connection (preferably a gas meter or test station)

- This smaller trench is for your structure wire and should be at a depth of your preference

Horizontal Placement

- Having both trenches dug pour 250 lbs. of coke breeze evenly in the bottom of the 6’ trench, place your anode on top of this coke breeze and then cover the anode with an additional 250 lbs. of coke breeze

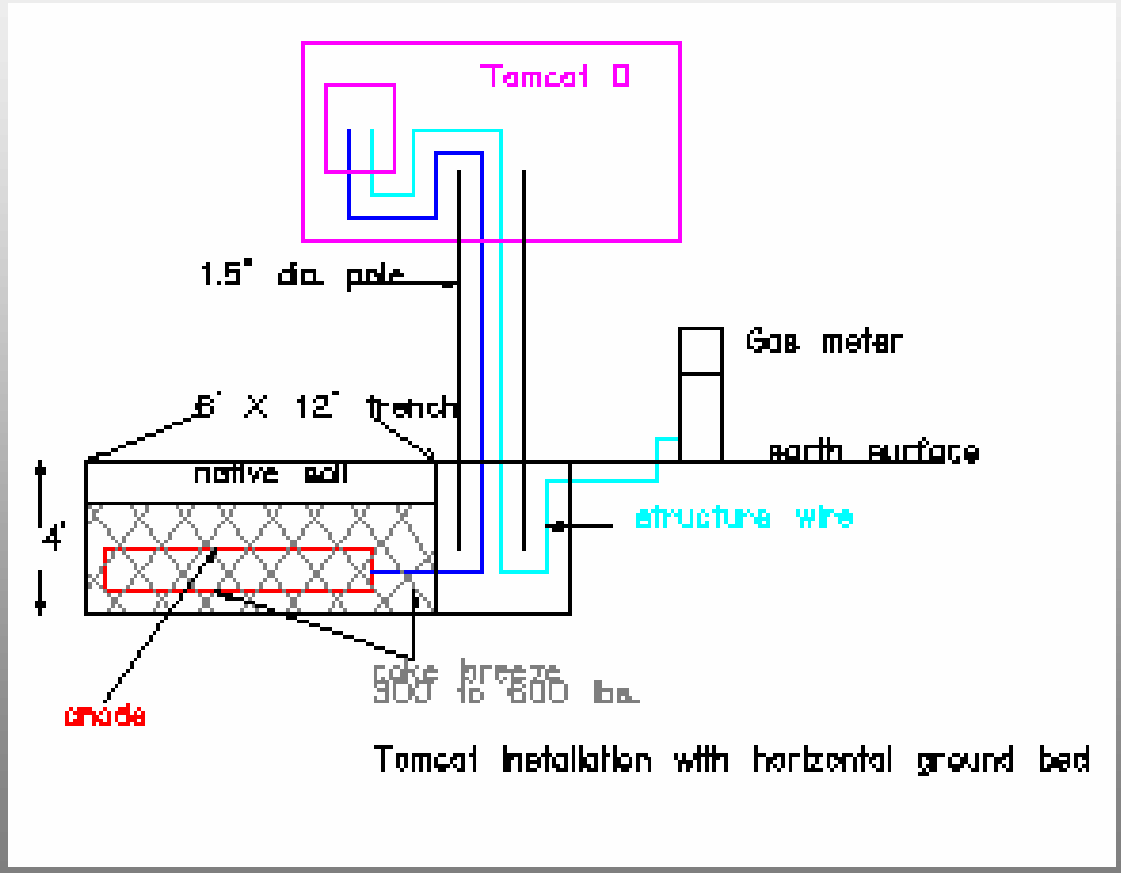
Horizontal Placement

- Make your structure connection and bring your structure wire through the small trench into the anode trench, insure that both the anode lead and your structure wire are long enough to go through the mounting pole and have 2’ of cable at the other end

Horizontal Placement

- Take the mounting pole (1.5” galvanized steel pole, 8’ or longer) and run your anode lead and structure wire through the center of the pole and place the pole at the end of your anode trench

Horizontal Ground bed Placement Complete



Vertical Placement

- Using a drilling rig, drill a 12” diameter hole 13 feet deep
- This hole should be located 3 to 10 feet from your structure

Vertical Placement

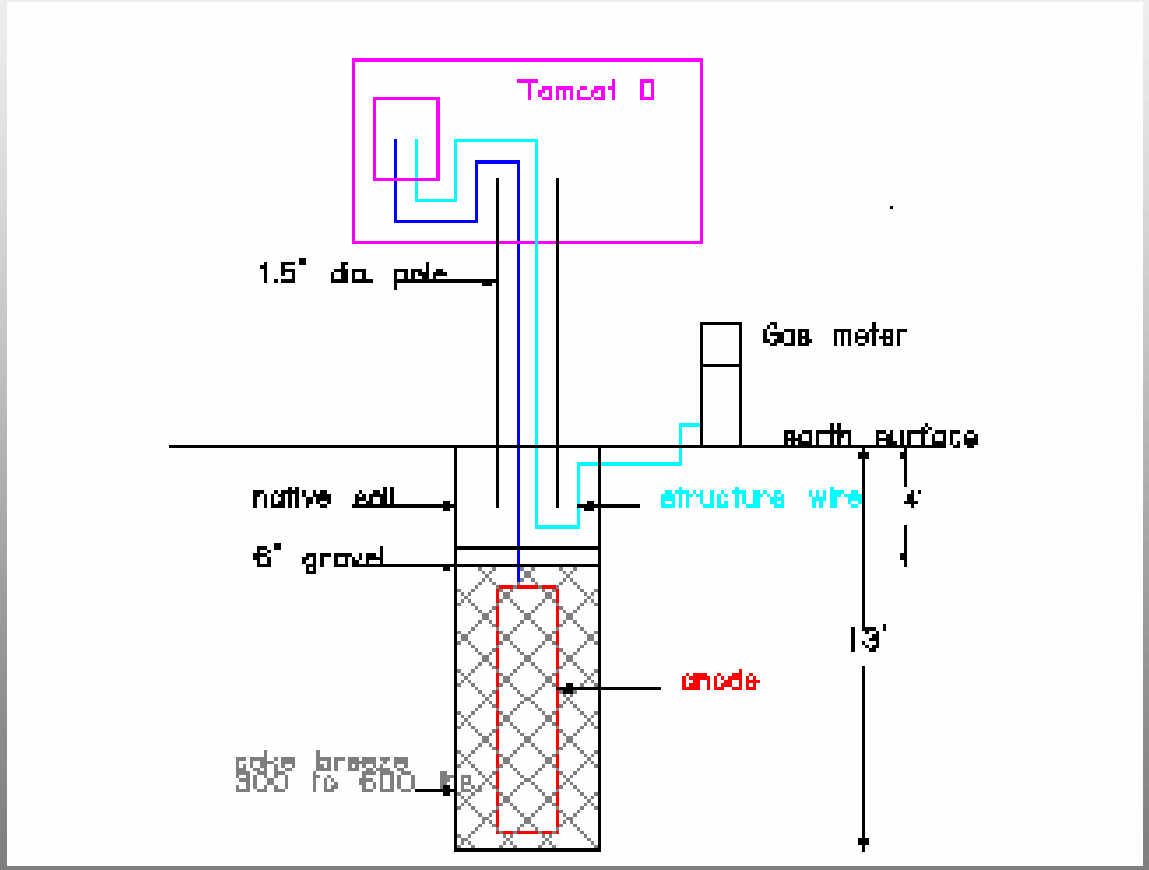
- Dig a small trench from the location of your structure wire to the anode hole

- Pour approximately 50 lbs. of coke breeze in the bottom of your anode hole, lower and center your anode in the hole and fill the hole with coke breeze to a level 3.5 feet from the surface

Vertical Placement

- Pour gravel into the hole to a level 3 feet from the surface
- Run your structure wire and anode leads through the center of the pole and place your anode hole on top of the gravel, fill the balance of the hole with native soil or concrete

Vertical Ground bed Placement Complete



- Please call or e-mail
  - a price quote
  - for more information
  - to place an order
- Additional presentations are available on topics of
  - TOMCAT unit
  - Installation procedures
  - Testing procedures

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