

TECHNICAL NOTES

USDA-Natural Resources Conservation Service
Boise, Idaho

ENGINEERING TECHNICAL NOTE NO. 1

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ANODES FOR CORROSION CONTROL

The National Handbook of Conservation Practices (NHCP) Standard 430-FF gives equations for determining sizes, types and numbers of anodes required on any given steel pipeline. In order to make calculations, the designer must know the design constant (k) and the weight of each anode being considered.

Design Note 12 gives these values for a variety of anodes that are produced commercially. However, experience has shown that some of these anodes are not available in Idaho and that some additional ones can be obtained that are not shown in Design Note 12. Table 1 lists the anodes currently available in Idaho.

TABLE 1

Wt.	Size and Type	k	1981 Estimating Price per Anode
30#	2-30 (BF) Zinc	33,000	\$90.00
17#	5-17 (BF) Magnesium	56,000	\$70.00
17#	3-19 (BF) Magnesium	78,500	\$80.00
9#	3.5-9 (BF) Magnesium	50,000	\$40.00
16#	4-16 (BF) Magnesium	100,000	\$75.00

It is important that the purchaser assure himself that he is obtaining quality packaged anodes as described in Standard 430-FF-7 of the NHCP.

/s/

H. LeRoy Zollinger
State Conservation Engineer