

HERE'S THE *WILDCAT* DYNAMIC CONE PENETROMETER STORY

WILDCAT COMPOSITION

A 35 pound, 15 inch drop, hammer drives 1 to 5 one meter long 1" rods, one 0.1 meter long end rod and the 1.4" diameter cone.

The 3 gallon tank with hand operated pump injects polymer slurry through the sounding rods to fill the 0.2" annulus between rods and soil, preventing energy robbing, soil to rod friction.

Cones are 1.4" diameter "lost points." At each test completion, the rods are extracted by a leveraged post-popper, with the "lost point" remaining in the bottom of the test hole, allowing easier and faster rod extraction.

Our Excel compatible software uses your noted penetrometer blow counts to log the test.



WILDCAT CONCEPT

When you need to know soil strengths, and soil boring would be impractical because of access, time, or expense, the *WILDCAT* solution is the right solution.

The fluid injection slurry fills & pressurizes the open hole so that soil caving or squeezing does not prevent full hammer energy from reaching the cone tip.



Lost points prevent excessive extraction tension from fracturing sounding rod joints, and they also leave the hole open so that a perforated PVC pipe can be lowered into it for later measurements of ground water levels and/or slip plane depth.

Test results are logged by keyboarding blows per 10 cm. into your computer, where our software creates graphic and numeric cone resistances, SPT n-values from correlations, and consistency/density adjectives.

WILDCAT ACCESSORIES

HAMMER LIFTING ENERGY comes either from the operator's biceps or from the optional *STORK* accessory, which lifts and drops the hammer by means of a 12V battery and cathead.



SHEAR VANE can be screwed onto a typical sounding rod, driven by the hammer, periodically rotated by our torque wrench, and logged by our software from both hammer blow counts and torque readings.

ADHESION CONE longer sidewall (4.5" v 1.4") reusable adhesive points (*RAP*) identify and log soil grain size types from software analysis of driving record and torque wrench measured adhesion resistance.