

WELLBORE EVALUATION SYSTEM AND METHOD

Abstract

A wellbore evaluation system evaluates mechanical wear and corrosion to components of a well system including a production tubing string positionable in a well and a sucker rod string movable within the production tubing string. A deviation sensor determines a deviation profile of the well, a rod sensor senses and measures wear and corrosion to the sucker rod string as it is removed from the well to determine a rod profile, and a tubing sensor senses and measures wear and corrosion to the production tubing string as it is removed from the well to determine a tubing profile. A data acquisition computer is in communication with the sensors for computing and comparing two or more of the respective deviation profile, rod profile, and tubing profile as a function of depth in the well. A 3-dimensional image of wellbores, with isogram mapping, may be generated and examined over the internet.

Figure 1