STREN CO. INC. – 15045 Woodham Drive - Houston, Texas 77073 Tel: (281) 820-0202, Fax: (281) 820-5909, Watts: (800) 856-0206

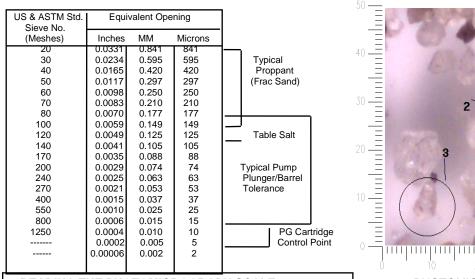
SAND ANALYSIS REPORT

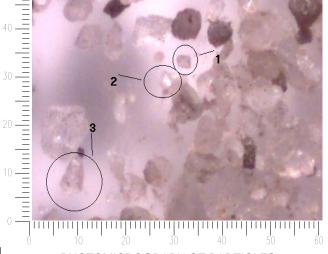
HOW MUCH ARE YOU PAYING FOR SAND?

This is a practical analysis of particles from this well... and how it may be affecting your pump.

It is not how much sand is in the fluid that causes damage to the pump, it is the size of the abrasive particles that flow between the barrel and plunger.

Conversion Chart Standard Screen to Inch to Micron





PHOTOMICROGRAPH OF PARTICLES 30X ENLARGEMENT

READING THE PHOTOMICROGRAPH SCALE:

- 1 DIVISION REPRESENTS 50 MICRONS (OR)
- 1 DIVISION REPRESENTS 2 THOUSANDTHS OF AN INCH

TEST NUMBER: R011005-1 AREA: California DATE: 11-OCT-01 COMPANY: LOCATION: Fillmore, CA WELL NAME AND NUMBER: STREN REP: (1) SIZE OF PARTICLES: (#1) 125 x 150 200 x 330 (2) TYPE OF PARTICLES: (#1) Sharp Fragment (#2) Silica Fragment (#3) Nodular Silica (4) % WATER CUT: ____ (5) API GRAVITY: (6) DEPTH PERFS: (3) BBLS/DAY: (8) AVERAGE COST TO REPAIR PUMP: (7) ACTUAL DAYS PUMPED BETWEEN REPAIRS: (9) REMARKS: Sharp face, highly fragmented silica sands exceed 50% fractionally. Balance, nodular grains. Broad PSD of clean sharp sands. Significant fraction in the 50-250 micron range most aggressive to sand cutting rod pump plunger- barrel interface. 100 micron rating is recommended for control.