

PEMEX

Complete name of the remitting party:
Quality Control, Fluid specifications
Eng. Felipe Pecina Salazar

CCEF-002 /99

Name of receiving party:
Supt. of Analysis and Operative
Control of Wells
Eng. Eligio Soto Alvarez

In re: Report on carrying out magnetic belt
of MCA. BONAQUA distributed and installed ANNEXED: ISOMETRIC
by Cia. Prasio S.A. DE C.V. in the downflow (?)
of Well Pool-D #95.

By this means I inform you of the results obtained in the evaluation of the
carrying out of the magnetic belt supplied and installed by the Cia. Prasio S.A. de
C.V.

ANTECEDENTS: On the date of August 14, 1998, there was installed on Pool-D
in the downflow #1 of Well #95 a (piece of) equipment for the disincrustation of
carbonates and silicates of calcium, provided by Prasio, Inc. Said equipment
was:

01 magnetic belt of the brand "Bon Aqua" and the fixtures for tubing of 6"
diameter.

This equipment was left to test for three months, a lapse of time determined by
PEMEX Exploration and Production in accordance with Cia. Prasio S.A. de C.V.
On the installation date the parties who took part from PEP ACTIVO POOL-
CHUC were the Engineer Adriana Valenzuela Izquierdo, Control and Operative
Analysis of Wells and the Engineer Felipe Pecina Salazar, Quality Control of the
Production Complex Pool-A and representing Cia. Prasio S.A. de C.V. the
Engineer Erick Sam Sanchez.

RESULTS: On the date of February 24, 1999, six months after the installation of
the magnetic belt on the downflow of well #95 the following was found:

1. Before disconnecting the downflow of well #95 we noticed that the physical
ground installed to the magnetic belt, necessary for its correct functioning, had
been disconnected, not knowing the date when this event occurred.
2. We proceeded to disconnect and examine the first part of the downflow,
finding that on the first upper entry (point 1) where it was NOT protected by the
magnetic belt, there adhered to the internal wall of the tube a encrustation of
carbonates and silicates of calcium of 2 cm uniform thickness. In contrast, upon

examining the other end of the downflow (point 2) where it WAS protected by the said equipment, there was no encrustation of carbonates or calcium silicates and the internal wall of the mouth of the flange was completely clean. It should be mentioned that in the curve of the elbow before point 2, there were adhered small specks of carbonates and silicates of an approximate thickness of 2 mm, probably due to the fact that the physical ground of the equipment was disconnected at some point during the carrying out of the same. These specks were not distributed in a uniform manner.

3. We continued to disconnect the following section of the fixture of the downflow no. 1, finding that in points 3, 4, and 6, there were no encrustations of any kind appearing on the internal wall of the completely clean tube.

4. On point 5 and 7 we observed that the internal wall of the male valves of 6" X 600 # of shots of group and test, were found to be completely clean of any adherence.

On the date of the evaluation those who took part from PEP ACTIVO POOL-CHUC the Eng. Felipe Pecina Salazar, Quality Control of the Production Complex POOL-A and the assistant "C" Arturo Perez Felix, of the Production Complex POOL-A and representing Cia. Pracio S.A. de C.V. the Engineer Erick Sam Sanchez.

Very truly yours,

Eng. Felipe Pecina Salazar
Quality Control Aboard