



CHEMICALS, INC.

P. O. BOX 6305 • ODESSA, TEXAS - 79760

May 31, 1978

RECEIVED

SOUTHERN UNION EXPLORATION COMPANY
First International Building
Suite 1800
Dallas, Texas 75270

JUN 12 1978

FOY BOYD ASSOCIATES, INC.

Gentlemen:

We have just completed water analyses on your Susco #'s 1 & 2. As we understand, you are beginning a monthly, hot, fresh water treatment downhole. This appears to be an excellent idea due to your water being saturated with Chlorides. A salt bridge or deposit could easily occur. We suggest using 5 gallons of our PARAFAC #216 per truck load of water. This is a water soluble, paraffin dispersant that will keep the paraffin dispersed and reduce any tendency toward emulsifying that your fresh water treatment may have.

The water analyses also indicate Calcium Carbonate and Calcium Sulfate type scales in the moderate to severe range. It is highly possible that some production loss has occurred over a period of time due to scale deposition.

To prevent any further scale deposition, we recommend the use of our SCALFAC #401 type scale inhibitor with a formation squeeze type application. We currently have several wells in New Mexico on squeeze with Phillips and Amerada.

A simple acid job would not remove the Calcium Sulfate scale, a slightly more complex method of scale removal is required. Should you be interested, we will be more than happy to work with you and the field personnel to insure the success of any treatment we recommend.

It should also be noted that as your water cut is over 25%, we could easily see a water-wet system and a mild corrosive condition. As a precautionary measure to protect your string of pipe, we suggest using CORFAC #120 on a batch treatment at the rate of 2 gallons bi-monthly.

Listed below are the prices of the products mentioned in this letter.

PARAFAC #216.....\$3.25/Gallon
SCALFAC #401..... 3.79/Gallon
CORFAC #120..... 3.79/Gallon

"Chemicals for the Petroleum Industry"

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We certainly appreciate your business and will be available should any questions arise concerning our analyses or recommendations.

Best regards,

A handwritten signature in cursive script that reads "Larry A. Rippee" followed by a stylized flourish.

Larry A. Rippee

LAR/jc

cc: File

Enclosure