

STEVENS OPERATING CORPORATION

118 WEST FIRST STREET
P. O. BOX 2203
ROSWELL, NEW MEXICO 88201
505 /622-7273

RECEIVED

JUN 29 1982

O. C. D.
ARTESIA, OFFICE

June 28, 1982

Transwestern Pipeline Company
P. O. Box 2521
Houston, Texas 77001

Gentlemen:

Enclosed is a copy of the 4 point test run on the Stevens Operating Corporation #1 Hanagan "A" located as shown, wherein a 28,000 calculated absolute open flow potential is shown on the completion. Please note that this CAOF is after an acid job only and that the well has not yet been fractured, thus the CAOF is considerably lower than usual.

Further enclosed is a copy of a letter from Bennett & Cathey, Inc. wherein they estimate the flow rate after fracture treatment and a calculated absolute open flow potential after a fracture treatment of two million one hundred sixty thousand 2,160 MCFD.

The purpose of this method of completion is to prevent waste by delaying the fracture treatment until such time that the well is ready to be produced. As you know, considerable flaring is necessary to clear a well of water prior to production and considerable waste occurs during the wait for a sales line by frequent well blowdowns necessary to keep fracture water off the formation. Further, evidence indicates underground waste occurs by shutting in wells after fracture due to fracture water swelling clays in the producing sand, reducing permeability and ultimate reserves.

We would appreciate your putting this well in line for hookup, using the estimated calculated absolute open flow potential of 2,160 MCFD. Upon notification of hookup we shall immediately fracture treat the well and increase its productivity as estimated in the enclosed letter.

Yours very truly,

STEVENS OPERATING CORPORATION


Donald G. Stevens

BENNETT & CATHEY, INC.

Box 787 / (505) 748-3354
ARTESIA, NEW MEXICO 88210

JUNE 23, 1982

DON STEVENS
STEVENS OPERATING CO.
P.O. BOX 2408
ROSWELL, NEW MEXICO 88201

DEAR DON:

ENCLOSED IS A FOUR POINT BACK PRESSURE TEST AND STABILIZED FLOW TEST ON YOUR HANAGAN FEDERAL WELL NO. 1-A

THE TEST WERE DONE AFTER THE ACID JOB BUT BEFORE ANY FRACTURE JOB. AT THE END OF THE BACK PRESSURE TEST, WE LET THE WELL FLOW FOR SIXTEEN HOURS TO ESTABLISH A STABILIZED FLOW RATE OF 9.5 MCFD. USING THE CORRELATION OF FLOW RATES FOR ABO WELLS, AFTER ACID TO AFTER FRACTURE TREATMENT, WE FIND THAT THIS WELL SHOULD FLOW 720.0 MCFD AFTER A FRACTURE TREATMENT. THIS ESTIMATED AFTER FRACTURE FLOW RATE IS BASED ON THE N.M.O.C.D. CASE NO. 7598 SHOWING THE CORRELATION OF FLOW RATES FOR ABO WELLS.

BY USING THE PC^2 , ANGLE OF SLOPE, AND SLOPE N FROM THE FOUR POINT BACK PRESSURE TEST AND THE FLOW RATE AFTER FRACTURE, THE HANAGAN FEDERAL 1-A SHOULD HAVE A CALCULATED ABSOLUTE OPEN FLOW OF 2,160.0 MCFD.

SINCERELY,


DON BENNETT

Wire Line Service
Gas & Oil Well Testing
Portable Production
Testing Equipment

