

EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, N.M.

May 15, 1957

Mr. E. C. Arnold
Oil Conservation Commission
120 East Chaco
Aztec, New Mexico

Re: Packer Leakage Test on the El Paso Natural Gas
Company Well, San Juan 27-5 Unit # 26, NE
17-27-5, Rio Arriba County, New Mexico.

Dear Mr. Arnold:

This well was dually completed in the Pictured Cliffs and Mesa Verde formations. A production packer was set at 3879 feet. The Mesa Verde zone was tested April 30, 1957 with the following results:

Pictured Cliffs - SIPC - 1064 psig
Mesa Verde - SIPT - 1100 psig; shut-in 20 days.

The tubing was opened at 11:15 A.M. and flowed for three hours through a 3/4" choke.

| <u>Time</u> | <u>Tubing Choke Pressure Psig</u> | <u>Temp. °F</u> | <u>Casing Pressure Psig</u> |
|-------------|---------------------------------------|-----------------|---------------------------------|
| 11:15 | Opened tubing | | 1064 |
| 11:30 | 498 | 66 | 1066 |
| 11:45 | 387 | 65 | 1065 |
| 12:00 | 342 | 64 | 1065 |
| 12:15 | 321 | 67 | 1066 |
| 12:45 | 292 | 67 | 1067 |
| 1:15 | 281 | 69 | 1066 |
| 2:15 | 260 | 70 | 1066 |

The calculated choke volume was 3216 MCF/Day. After the well was shut-in for 14 days, the Pictured Cliffs zone was tested with the following results:

Pictured Cliffs SIPC - 1071 psig; shut-in 26 days.
Pictured Cliffs SIPT - 1072 psig
Mesa Verde SIPT - 1095 psig

The casing was opened at 11:35 A.M. through a 3/4" choke and flowed for 3 hours.



| <u>Time</u> | <u>Casing Choke Pressure Psig</u> | <u>Temp. °F</u> | <u>Tubing Pressure Psig</u> |
|-------------|-----------------------------------|-----------------|-----------------------------|
| 11:35 | Opened casing | | 1095 |
| 11:50 | 825 | | 1099 |
| 12:05 | 773 | | 1100 |
| 12:20 | 738 | | 1100 |
| 12:35 | 715 | | 1101 |
| 1:05 | 683 | | 1101 |
| 1:35 | 663 | | 1101 |
| 2:35 | 606 | 66 | 1102 |

The calculated choke volume was 7804 MCF/Day. The results of the tests obtained indicate there is no packer leakage.

Very truly yours,



K. C. McBride
Gas Engineer

KCMCB/jla

cc: W. T. Hollis
W. M. Rodgers
E. J. Coel, Jr. (6)
File