

EL PASO NATURAL GAS COMPANY

*not all
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P. O. Box 997
Farmington, New Mexico

June 5, 1958



Mr. E. C. Arnold
1000 Rio Brazos Road
Aztec, New Mexico

Re: Packer Leakage Test on the El Paso Natural Gas
Company Well, San Juan 27-5 Unit 29 (PM), 990S,
990W; 13-27-5; Rio Arriba County, New Mexico.

Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 3638 feet. The Mesa Verde zone was tested through a 3/4" choke for three hours May 29, 1958, with the following data obtained:

PC SIPC 998 psig; Shut-in 20 days

PC SIPT 999 psig;

MV SIPT 1105 psig; Shut-in 20 days

| Time Minutes | MV Flowing Pressure Tubing Psig | PC SIPC Psig | MV Working Pressure, Psig | Temp ° F |
|-----------------|------------------------------------|--------------|------------------------------|----------|
| 0 | - | 998 | | - |
| 15 | 532 | 1003 | | 64 |
| 30 | 395 | 1003 | | 65 |
| 45 | 352 | 1003 | | 66 |
| 60 | 332 | 1003 | | 66 |
| 180 | 249 | 1003 | Calc. 510 | 67 |

The choke volume for the Mesa Verde was 3101 MCF/D with an AOF of 3731 MCF/D.

The Pictured Cliffs zone was tested June 5, 1958 with a 3/4" choke for 3 hours with the following data obtained:

PC SIPC 1012 psig; Shut-in 27 days

PC SIPT 1013 psig;

MV SIPT 1091 psig; Shut-in 7 days

June 5, 1958

| <u>Time</u> <u>Minutes</u> | <u>PC Flowing Pressure</u> <u>Casing Psig</u> | <u>MV SIFT Psig</u> | <u>PC Working</u> <u>Pressure, Psig</u> | <u>Temp ° F</u> |
|-------------------------------|--------------------------------------------------|---------------------|--------------------------------------------|-----------------|
| 0 | - | 1091 | | - |
| 15 | 422 | 1091 | | 61 |
| 30 | 305 | 1091 | | 63 |
| 45 | 245 | 1092 | | 64 |
| 60 | 212 | 1092 | | 67 |
| 130 | 131 | 1092 | Tbg. 137 | 66 |

The choke volume for the Pictured Cliffs test was 1687 MCF/D with an AOF of 1713 MCF/D.

The results of the above tests indicate there is no packer leakage.

Very truly yours,

Frank M. Clark
Frank Clark
Gas Technician

FC/nb

cc: W. M. Rodgers
E. S. Oberly (6)
File

