

EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, New Mexico

May 1, 1958

O.K. on

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

Re: Packer Leakage Test on the El Paso Natural Gas Company Well, San Juan 27-4 Unit No. 13 (PM) 1800N, 1500E; 20-27-4; Rio Arriba County, N.M.

Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 3769 feet. The Pictured Cliffs zone was tested through a 3/4" choke for three hours February 3, 1958 with the following data obtained:

PC SIPC 888 psig; shut-in 24 days
PC SIPT 881 psig;
MV SIPT 961 psig; shut-in 24 days

<u>Time Minutes</u>	<u>PC Flowing Pressure Casing Psig</u>	<u>MV SIPT Psig</u>	<u>PC Working Pressure, Psig</u>	<u>Temp °F</u>
0	-	961		-
15	352	962		51
30	296	964		53
45	244	964		55
60	219	964		55
180	158	964	Tbg. 175	57

The choke volume for the Pictured Cliffs was 1,965 MCF/D with an AOF of 2,040 MCF/D.

The Mesa Verde zone was tested April 28, 1958 with a 3/4" choke for 3 hours with the following data obtained:

PC SIPC 1006 psig; shut-in 84 days
MV SIPT 1094 psig; shut-in 108 days



May 1, 1958

<u>Time Minutes</u>	<u>MV Flowing Pressure Tubing Psig</u>	<u>PC SIPC Psig</u>	<u>MV Working Pressure, Psig</u>	<u>Temp ° F</u>
0	-	1006		-
15	438	1008		60
30	426	1010		62
45	410	1010		62
60	399	1010		62
180	368	1010	Calc. 771	64

The choke volume for the Mesa Verde Test was 4,611 MCF/D with an AOF of 7,770 MCF/D.

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



S. V. Roberts
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Gas Engineer

SVR/nb

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