

EL PASO NATURAL GAS COMPANY

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

December 17, 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 28-6 No. 77 (PM), 1660'S,  
1750'W, Sec. 2-27N-6W, 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 3377 feet. The Mesa Verde zone was tested through a 3/4" choke for three hours December 5, 1957 with the following data obtained:

Pictured Cliff SIPC - 1035 psig; shut-in 9 days  
Pictured Cliff SIPT - 1035 psig

Mesa Verde SIPT - 942 psig; shut-in 9 days

<u>Time</u> <u>Minutes</u>	<u>MV Flowing Pressure</u> <u>Tubing Psig</u>	<u>PC SIPC Psig</u>	<u>MV Working</u> <u>Pressure, Psig</u>	<u>Temp ° F</u>
15	359	1039		58
30	341	1040		59
45	320	1040		60
60	305	1040		60
120	268	1042		62
180	247	1042	Calculated 283	62

The choke volume for the Mesa Verde was 3087 MCF/D with an A.O.F. of 3328 MCF/D.

The Pictured Cliffs zone was tested December 12, 1957 with a 3/4" choke for three hours with the following data obtained:

Pictured Cliff SIPC - 1063 psig; shut-in 16 days  
Pictured Cliff SIPT - 1063 psig

Mesa Verde SIPT - 971 psig; shut-in 7 days



<u>Time</u> <u>Minutes</u>	<u>PC Flowing Pressure</u> <u>Casing Psig</u>	<u>MV SIPT Psig</u>	<u>PC Working</u> <u>Pressure, Psig</u>	<u>Temp ° F</u>
15	390	971		48
30	287	971	301	52
45	214	970		53
60	184	970	201	54
120	147	970	162	55
180	132	970	145	55

The choke volume for the Pictured Cliffs test was 1717 MCF/D with an A.O.F. of 1749 MCF/D.

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

Very truly yours,

R. R. Davis  
R. R. Davis  
Gas Engineer

RRD/jla

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