

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

CORRECTED COPY

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>9-17-80</u>	
Company <u>El Paso Natural Gas Company</u>				Connection <u>El Paso Natural Gas Company</u>		
Pool <u>Basin</u>				Formation <u>Dakota</u>		Unit <u>San Juan 29-7</u>
Completion Date <u>8-29-80</u>		Total Depth <u>7432</u>		Plug Back TD <u>7422</u>		Elevation <u>6227 G.R.</u>
Csg. Size <u>7.000</u>	Wt. <u>23.0</u>	d <u>6.355</u>	Set At <u>5713</u>	Perforations: From <u>7226</u> To <u>7426</u>		Well No. <u>#77A (DK)</u>
Tbg. Size <u>2.375</u>	Wt. <u>4.7</u>	d <u>1.995</u>	Set At <u>7388</u>	Perforations: From To		Unit Sec. Twp. Rge. <u>0</u> <u>33</u> <u>29</u> <u>7</u>
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>G. G. Dual</u>				Packer Set At <u>5578</u>		County <u>Rio Arriba</u>
Producing Thru <u>Tbg.</u>		Reservoir Temp. °F <u>@</u>		Mean Annual Temp. °F <u>12</u>		State <u>New Mexico</u>
L	H	Gg <u>0.650</u>	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							<u>882</u>				<u>20 Days</u>
1.	<u>Choke</u>	<u>0.750</u>		<u>90</u>		<u>69</u>					<u>3 Hours</u>
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	<u>12.365</u>		<u>102</u>	<u>0.9915</u>	<u>0.9608</u>	<u>1.009</u>	<u>1212</u>
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl. Deg.
1											<u>X X X X X X X X</u>
2.											
3.											
4.											
5											

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	<u>10404</u>	<u>221</u>	<u>48841</u>	<u>750395</u>
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \underline{1.0651}$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{1271}$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{1.0484}$

Absolute Open Flow <u>1271</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>0.75</u>
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Remarks: 4.500" Liner From 5608 to 7432.
Gas Vented - 238 MCF.

Approved By Commission:	Conducted By: <u>John Easley</u>	Calculated By: <u>H. E. McAnally</u>	Checked By:
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