

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-24-81	
Company El Paso Natural Gas Company		Connection Northwest Pipeline Corp.	
Pool Basin Dakota		Formation Dakota	
Completion Date 6-17-81		Total Depth 8634	
Plug Back TD 8626		Elevation 7368	
Csg. Size 9.625"		Well No. #101 E	
Perforations: From *8410 To 8588		Unit San Juan 27-5	
Tbg. Size 2.375"		Perforations: From To	
Type Well - Simple - Broadhead - G.C. or G.O. Multiple G. G. Dual		Packer Set At 6791	
Producing thru Tbg.		County Rio Arriba	
Reservoir Temp. *F 8		State New Mexico	
Mean Annual Temp. *F 12		Baro. Press. - P _a	
L		H	
G _g 0.652		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run 4"	
Taps Tlg.			

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							2171				7 Days
1.	4" X 2.5"			28	4.4	75	103				3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	103.21	8.8	40	.9859	1.238	1.000	1109
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf, Jbl.	Deg.
1												
2.												
3.												
4.												
5.												

P _r 2183	P _r 4,765,489	P _c 2	P _c 1.0104	(1) $\frac{P_c^2}{P_r^2 - P_c^2} = 1.0104$	(2) $\left[\frac{P_c^2}{P_r^2 - P_c^2} \right]^n = 1.0078$
NO. 1	P _r 13,225	P _r 222	P _r 49284	P _r 716,205	
2					
3					
4					
5					

Absolute Open Flow 1,118		Mcf @ 15.025		Angle of Slope 0		Slope, n .75	
Remarks: * 7" Liner from 4443 to 6978 4 1/2" liner from 6853 to 8634							
Liquids - 2.3 Bbls Oil, 11.3 Bbl Water				Gas Vented - 155 MCF			
Approved by Division		Conducted by Lyle Nation		Calculated by Bill Clark		Checked by	