

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 7/9/85	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Undesignated		Formation Gallup	
Completion Date 01/02/85		Elevation 6620' GR	
Total Depth 8488'		Plug Back TD 8430'	
Csg. Size 4.500		Well No. #109 (Gal)	
Wt. 11.6		Set At 8482'	
Thq. Size 2.375		Set At 8358'	
Wt. 4.7		Perforations: From 7216' To 7620'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual		Packer Set At 7768'	
Producing Thru Annulus		Baro. Press. - P _a 12.0	
Reservoir Temp. °F @		Mean Annual Temp. °F	
L		H	
Gg Est. .600		% CO ₂	
		% N ₂	
		% H ₂ S	
		Positive Choke	
		Meter Run	
		Taps	
County Rio Arriba		State New Mexico	

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
1.	2" SIP	X	.750"			66 ⁰		66 ⁰	2435	* 177	3 Hrs
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.	9.604		189	.994	1.291	1.016	2367
2.							
3.							
4.							
5.							

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

P _c 2447 P _c ² 598'809		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0103$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0077$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		247	61009	5926800	
2.		(Calc.)			
3.					
4.					
5.					

Absolute Open Flow 238.5 Mcfd @ 15.025		Angle of Slope 0		Slope, n .75	
Remarks: Vented 296 MCF. Produced heavy mist of water throughout flow.					
G1	i-e-s	Fc0 ²	R ²	Pt ²	Calc. Pw
4330	.270	93952	25367	35721	247 psia
Approved By Commission:		Conducted By: Chik Charley		Calculated By: S.K. Liese	
				Checked By: M.J. Turnbaugh	