

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT 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		Unit Rosa
Completion Date 11/12/84		Total Depth 8188'	Plug Back TD 8010'	Elevation 6275' GR	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8188'	Perforations: From 6886' To 7178'	Well No. #108 (Gal)
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7903'	Perforations: From To	Unit Sec. Twp. Rge. G 7 31N 5W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual				Packer Set At 7671'	County Rio Arriba
Producing Thru Annulus		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a 12.0	State New Mexico
L	H	G _g Est. .600	% CO ₂	% N ₂	% H ₂ S
				Positive Choke	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	
1.	2" SIP	X	.750"			68 ⁰		68 ⁰	* 255	68 ⁰	3 Hrs.
2.											
3.									*Annular	Flow	
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		267	.992	1.291	1.023	3360
2.							
3.							
4.							
5.							

NO.	P _t	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.											XXXXXXX
2.											
3.											
4.											
5.											

P _c 2865 P _c ² 8208225				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0149$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0111$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1.		347	120409	8087816			
2.		(Calc.)					
3.							
4.							
5.							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3397$			
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Absolute Open Flow 3397 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
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Remarks: Vented 420 MCF. Produced heavy mist of water throughout test.							
G _l	i-e-s	F _c Q ²	R ²	P _t ²	R ² +P _t ²	Calc. P _w	
4132	.260	189316	49222	71289	120511	347 psia	

Approved By Commission:	Conducted By: Chik Charley	Calculated By: S.K. Liese	Checked By: M.J. Turnbaugh
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