

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 6-23-81	
Company Northwest Pipeline Corporation			Connection New Completion		
Pool Blanco		Formation Mesa Verde		Unit San Juan 29-5	
Completion Date 6-15-81		Total Depth 6195'		Plug Back TD 6118'	
				Elevation 6795'	
Csg. Size 7.000 4.500		Wt. 20.0 10.5		d 6.456 4.052	
				Set At 4080' 3884-6195'	
Perforations:		From 5610'		To 6070'	
Well No.		#100 MV			
Tbg. Size 2.375		Wt. 4.7		d 1.995	
				Set At 5900'	
Perforations:		From		To	
Unit		Sec.		Twp.	
G		25		29N 5W	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Gas - Multiple Completion			Packer Set At 3850'		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a 12.0	
State New Mexico		Meter Run		Taps	
L		H		G _g est. .670	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				positive choke	

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							1143				SIP
1.	2"	X	.750	157		60°	157				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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		169	1.000	1.222	1.020	2023
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 _____ Deg.
2.					Specific Gravity Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	1155	345	1334025	119025	1215000
2		(calc)			
3					
4					
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0980$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0726$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2170$

Absolute Open Flow <u>2170</u> Mcfd @ 15.025		Angle of Slope <u>75</u>	
Remarks: Produced medium mist of water throughout test. Vented 296 MCF.			
G1	1-e-s	Ec0 ²	R ²
3953	.250	361770	90442
Approved by Commission:		Checked By:	
Conducted By: Fred S. Hamrick		Calculated By: R.J. Broughton	