

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 4-27-81	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Gallup - Dakota		Unit Rosa	
Completion Date 4-12-81		Total Depth 8165'		Plug Back TD 8125'		Elevation 6531'	
Csg. Size 5.500		Wt. 17#	d 4.892	Set At 8165'	Perforations: From 7660' To 8091'		Well No. #77 GL - DK
Tbg. Size 1.900		Wt. 2.9#	d 1.610	Set At 8075'	Perforations: From To		Unit Sec. Twp. Rge. 1 33 31N 5W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual Completion						Packer Set At 6030'	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L		H		G _g est. .580	% CO ₂	% N ₂	% H ₂ S
						Prover positive choke	
						Meter Run	
						Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
							Temp. °F
SI							Press. p.s.i.g.
1.	2	X	.750	187		59 ⁰	2560
2.							187
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, Mcf/d
1	9.604		199	1.001	1.313	1.013	2544
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 _____ X X X X X X X X		
3.					Specific Gravity Flowing Fluid _____ X X X X X		
4.					Critical Pressure _____ P.S.I.A.		
5.					Critical Temperature _____ °R		
P _c 2572 P _c ² 6615184					(1) $\frac{P_c^2}{P_e^2 - R_w^2} = 1.0900$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_e^2 - R_w^2} \right]^n = 1.0668$		
1		739	546121	6069063			
2		(calc.)					
3							
4							
5							
Absolute Open Flow 2714 Mcf @ 15.025					Angle of Slope _____ Slope, n .75		
Remarks: Vented 354 MCF - Produced light mist of water.							
GI	1-e-s	FcQ ²	R ²	Pt ²	Pt ² + R ²	Calc. Pw	
4684	.289	1753452	506748	39601	546349	739	
Approved By Commission:		Conducted By: Fred Hamrick		Calculated By: R. L. Broughton		Checked By: BQR	