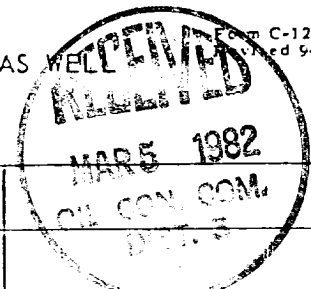


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-12-82							
Company Northwest Pipeline Corporation				Connection New Completion							
Pool Undesignated				Formation Pictured Cliffs							
Completion Date 11-03-81		Total Depth 5840'		Plug Back TD 3520'							
				Elevation 6335'							
Farm or Lease Name Rosa Unit				Well No. #88 PC							
Choke Size 7.000 4.500	Wt. 20.0 10.5	d 6.456 4.052	Set At 3741' 3543'-5840'	Perforations: From 3204' To 3309'							
Thg. Size 1.660	Wt. 2.33	d 1.380	Set At 3242'	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Multiple Completion				Packer Set At 3520'							
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 12.0							
				Baro. Press. - P _a 12.0							
L	H	G _g est. 670	% CO ₂	% N ₂	% H ₂ S						
				Prover 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	Duration of Flow
SI							523		1311		SIP
1.	2"	X	.750"	35		86 ⁰	35		751		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		47	.976	1.222	1.003	540				
2.											
3.											
4.											
5.											
NO.	P _f	Temp. °R	T _f	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. _____ P.S.I.A.						
5.					Critical Temperature _____ R _____ R						
P _c 1323 P _c ² 1750329											
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4984$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4102$						
1		763	582169	1168160							
2											
3											
4											
5											
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 761$											
Absolute Open Flow 761				Mcf @ 15.025		Angle of Slope @ _____					
						Slope, n .85					
Remarks: Well produced heavy mist with occasional slugs of water. Vented 118 MCF.											
Approved By Commission:		Conducted By: Fred S. Hamrick		Calculated By: B.J. Broughton		Checked By: BJB					

BJB/skw