

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8/29/84		SEP 18 1984	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Wildcat				Formation Gallup		Unit San Juan 30-5	
Completion Date 8/15/84		Total Depth 8293'		Plug Back TD 8275'		Elevation 6870' KB	
Csg. Size 4.500		Wt. 11.6		Set At 8293'		Perforations: From 6826' To 7838'	
Trq. Size 2.375		Wt. 4.7		Set At 6995'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At 8150'		Form or Lease Name San Juan 30-5 Unit	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L		H		Gg Est. .600		% CO ₂ % N ₂ % H ₂ S	
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	Duration of Flow
1.	2"	X	.750"			71°	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		51	.990	1.291	1.007	630
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. _____ P.S.I.A.		
5.					Critical Temperature _____ R _____ R		
$P_c = 2697$ $P_c^2 = 7273809$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0372$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0278$		
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 648$		
1.		511	261121	7012688			
2.							
3.							
4.							
5.							
Absolute Open Flow 648 Mcfd @ 15.025					Angle of Slope θ		Slope, n .75
Remarks: Produced light mist throughout test. Vented 146 MCF.							
Approved By Commission:		Conducted By: Gip Aulbert		Calculated By: <i>MJT</i> M.J. Turnbaugh		Checked By:	

skt