

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 1-13-82			
Company Northwest Pipeline Corporation						Connection New Completion			
Pool Undesignated						Formation Pictured Cliffs			
Completion Date 11-24-81						Total Depth 5805'		Plug Back TD 4440'	
Elevation 6395'						Farm or Lease Name San Juan 32-7 Unit			
Csp. 600 4.500		Wt. 20.0 10.5		d 6.456 4.052		Set At 3750' 3528'-5805'		Perforations: From 3250' To 3338'	
Tbg. Size 1.660		Wt. 2.33		d 1.380		Set At 3318'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Multiple Completion						Packer Set At 3440'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L		H		G _g est. .677		% CO ₂		% N ₂	
								% H ₂ S	
								positive choke	
								Meter Run	
								Tcps	

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							1437		1437		SIP
1.	2"	X	.750	115		87°	115		766		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		127	.9750	1.215	1.012	1462
2.							
3.							
4.							
5.							

NO.	P _r	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
1.										
2.										
3.										
4.										
5.										

P _c 1449	P _c ² 2099601		
NO. 1	P _r ²	P _w	P _w ²
1		778	605284
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4051$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1952$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3352$

Absolute Open Flow	1952	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Produced medium mist of water throughout test. Vented 236 MCF.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: B.J. Broughton	Checked By: B.J. Broughton
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