

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: 5-28-81	
Company: Northwest Pipeline Corporation				Connection: New Completion	
Pool: Blanco				Formation: Mesa Verde	
Completion Date: 5-19-81		Total Depth: 5990'		Elevation: 6571'	
Well No.: #71				San Juan 32-7	
Casing Size: 4.868		WT: 28.9		d: 4.052	
Set At: 3857'		Perforations: 3653'-5990'		From: 5279' To: 5896'	
Tubing Size: 2.375		WT: 4.7		d: 1.995	
Set At: 5744'		Perforations: 5744'		From: To:	
Type well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: None	
Gas - Single				County: San Juan	
Producing Thru: Tubing		Reservoir Temp. °F: 8		Mean Annual Temp. °F: 12.0	
Baro. Press. - P _a : 12.0		State: New Mexico		Prover: positive choke	
L: .590		H: .590		G _g est. .590	
% CO ₂		% N ₂		% H ₂ S	
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	
SI						70 ⁰	920		932		SIP
1.	2"	X	.750	234			234		585		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		246	.9905	1.302	1.015	3096
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

NO.	P _r	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	944	597	891136	356409	534727
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6665$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4541$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4668$

Absolute Open Flow: 4541	Mcf @ 15.025	Angle of Slope: .75
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Remarks: Produced very light mist of water throughout test. Vented 387 MCF

Approved By Commission:	Conducted By: John Wright	Calculated By: J.T. Harris	Checked By: B.J. Broughton
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