

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

Form C-122
 Revised 9-1-65

SIG 7-5-74

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-12-74	
Company Northwest Pipeline Corporation				Connection New Well			
Pool Blanco				Formation Pictured Cliffs		Unit Cox Canyon	
Completion Date 7-1-74		Total Depth 3535		Plug Back TD 3522		Elevation 6741'	
Farm or Lease Name Cox Canyon Unit		Well No. 13		Perforations: From 3422 To 3428		Csg. Size 2 7/8"	
Unit A		Sec. 20		Twp. 32		Rge. 11	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Tubingless completion				Packer Set At None		County San Juan	
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F #		Baro. Press. - P _a 12 psi	
State New Mexico		Prover 3/4 choke		Meter Run -		Taps -	
L .635		H -		G _g -		% CO ₂ -	
% N ₂ -		% H ₂ S -		Prover 3/4 choke		Meter Run -	

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				-	-	-	-	-	923		7 hr
1.	.750 choke								102	66°	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	12,365		114	.9943	.9721	1.010	1,376
2.							
3.							
4.							
5.							

NO.	P _t	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 P.S.I.A.	Critical Temperature R
1.										
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{874225}{852616}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.406$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0215$

Absolute Open Flow	1.406	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
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Remarks:	G1	1-e-s	FcQ ²	R ²	PT ²	PT ² + R ²	PW
	2,173	.146	58,342	8,518	12,996	21,514	147

Well produced light fog through-out test H2O.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bobby Broughton	Bobby Broughton	Robert E. Fickler