

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 11-2-77			
Company Northwest Pipeline Corp.				Connection New Completion					
Pool Gobernador				Formation Pictured Cliffs				Unit San Juan 29-5 Unit	
Completion Date 10-4-77		Total Depth 3557		Plug Back TD 3521		Elevation 6469 GR		Farm or Lease Name Gobernador	
Csg. Size 2.875	Wt. 6.4	d 2.441	Set At 3539	Perforations: From 3410 To 3494		Well No. #2			
Tbg. Size None	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. 0 14 29 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Tubingless Completion						Packer Set At None		County Rio Arriba	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg .690	% 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	
SI											
1.	2	X	.750	171		61°			981		SIP
2.									171		3 hrs.
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.402		183	.999	1.204	1.020	2111
2.							
3.							
4.							
5.							

NO.	P _t	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		235	55225	930824	1.0593	1.0502
2		(Calc)				
3						
4						
5						

AOFP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2217$

Absolute Open Flow 2217 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
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Remarks: **Well produced light mist of water with trace of parafin.**

G1 2353	1-e-s .157	FcQ ² 137315	R ² 21559	Pt ² 33489	Pt ² + R ² 55048	Calc. PW 235
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Approved By Commission:	Conducted By: Fred Hamrick	Calculated By: B.J. Broughton	Checked By:
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