

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

Form O-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/17/78	
Company Northwest Pipeline Corp.				Connection New Completion			
Pool Gobernador				Formation Pictured Cliffs		Unit San Juan 29-6	
Completion Date 1/3/78		Total Depth 3659		Plug Back To 3626		Elevation 6514 GR	
Csq. Size 2.875		Wt. 6.4		Set At 3659		Perforations: From 3498 To 3514	
Thq. Size		Wt.		Set At		Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Tubingless Completion						Packer Set At None	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F @		Baro. Press. - P _a 12.0	
L		H		G _g		Prover Positive Choke	
				.690		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	
1.	2	X	.750	181		56°			1107		SIP
2.									181		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		193	1.004	1.204	1.019	2283
2.							
3.							
4.							
5.							

NO.	P _t	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 1119 P _c ² 1252161				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		251	63001	1189160
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0530$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2385$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0449$

Absolute Open Flow <u>2385</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, n <u>.85</u>	
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Remarks: <u>Well produced very light mist of water.</u>						
G ₁	1-e-s	F _c O ₂	R ²	P _t ²	P _t ² +R ²	Calc. PW
2414	.161	160603	25857	37249	63106	251

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