

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

RECEIVED
JAN 10 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/07/83					
Company Northwest Pipeline Corporation						Connection New Completion					
Pool Basin						Formation Dakota					
Completion Date 11/10/83				Total Depth 8002'		Plug Back TD 7992'		Elevation 6539' KB		Unit San Juan 30-5	
Csg. Size 4.500		Wt. 11.6		d 4.052		Set At 8002'		Perforations: From 7868' To 7915'		Well No. #75	
Tng. Size 2.375		Wt. 4.7		d 1.995		Set At 7850'		Perforations: From To		Unit Sec. Twp. Rge. L 21 30 5	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Single						Packer Set At None			County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P ₀ 12.0		State New Mexico			
L		H		Gg Est. .590		% CO ₂		% N ₂		% H ₂ S	
						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		
1.	2"	X	.750"			63°	2680	63°	2680	1020	63°	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		321	.997	1.302	1.023	4094
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 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 2692 P _c ² 7246864		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1723$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1266$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		1032	1065024	6181840	
2.					
3.					
4.					
5.					

Absolute Open Flow 4612		Mcf/d @ 15.025		Angle of Slope @ _____		Slope, n .75	
Remarks: Produced light mist throughout test. Vented 623 MCF.							

Approved By Commission:	Conducted By: Gip Aulbert	Calculated By: M.J. Turnbaugh	Checked By:
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