

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

RECEIVED
AUG 22 1983

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/8/83		OIL CON. DIV.	
Company Northwest Pipeline Corporation				Connection New Completion		DIST. 3	
Pool Basin				Formation Dakota		Unit San Juan 30-5	
Completion Date 3-21-83		Total Depth 8020'		Plug Back TD 8008'		Elevation 6505' KB	
Csg. Size 4.500		Wt. 11.6		Set At 8020'		Perforations: From 7884' To 7949'	
Trg. Size 2.375		Wt. 4.7		Set At 7865'		Perforations: From To	
Type Well - Single - Bradenhead - G.C. 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 _a 12.0	
L		H		Gas est. .590		% CO ₂	
				% N ₂		% H ₂ S	
						Positive Choke	

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"	178		62°	178	62°	655	62°	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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		190	.998	1.302	1.013	2402
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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2707 P _c ² 7327849				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		667	444889	6882960
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0646$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0481$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2518$$

Absolute Open Flow	2518	Mcf @ 15.025	Angle of Slope °	Slope, n	.75
--------------------	------	--------------	------------------	----------	-----

Remarks: Produced light mist throughout test. Vented = 376 MCF/D

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

MJT/skw