

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

Form C-122
Revised 9-1-65

RECEIVED
FEB 21 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 02/06/84			
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Dakota			
Completion Date 01/21/84				Total Depth 7836'		Plug Back TD 7820'	
				Elevation 7331' KB		Unit San Juan 30-5	
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 7836'	Perforations: From 7699' To 7718'		Well No. #88	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 7704'	Perforations: From To		Unit Sec. Twp. Rge. L 18 30 5	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g 12.0	
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	
SI	SIP						2710		2710		
1.	2"	X	.750"			67°	161	67°	522	67°	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	9.604		173	.993	1.302	1.013	2176
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 2722	P _c ² 7409284	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.0400$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0299$
NO. 1	P _t ² 534	P _w ² 285156	P _c ² - P _w ² 7124128
2.			
3.			
4.			
5.			

ACF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 2241$	
---	--

Absolute Open Flow 2241	Mcf/d @ 15.025	Angle of Slope °	Slope, n .75
-------------------------	----------------	------------------	--------------

Remarks: Produced light mist throughout test. Vented 354 MCF.

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