

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

RECEIVED

JAN 10 1984

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/14/83		OIL CON. DIV.									
Company Northwest Pipeline Corporation			Connection New Completion		DIST. 3								
Pool Basin			Formation Dakota		Unit San Juan 30-5								
Completion Date 11/17/83		Total Depth 8145'	Plug Back TD 8133'	Elevation 6723'	Form or Lease Name San Juan 30-5 Unit								
Csg. Size 4.500	Wt. 11.6	Gr 4.052	Set At 8145'	Perforations: From 8021' To 8066'	Well No. #94								
Tub. Size 2.375	Wt. 4.7	Gr 1.995	Set At 8004'	Perforations: From To	Unit Sec. Twp. Rge. B 27 30 5								
Type Well - Single - Broadhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None	County Rio Arriba								
Producing Thru Tubing		Reservoir Temp. °F 6	Mean Annual Temp. °F	Baro. Press. - P _a 12.0	State New Mexico								
L	H	Gr Est. .590	% CO ₂	% N ₂	% H ₂ S Positive Choke								
FLOW DATA			TUBING DATA		CASING DATA								
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow		
SI	SIP						2560		2560				
1.	2"	X	.750"			60	238	60	891	60	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd						
1	9.604		250	1.000	1.302	1.020	3189						
2.													
3.													
4.													
5.													
NO.	P _i	Temp. °R	T _i	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 2572 P _c ² 6615184													
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1406$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1037$								
1		903	815409	5799775									
2													
3													
4													
5													
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3520$													
Absolute Open Flow 3520 Mcfd @ 15.025					Angle of Slope θ _____					Slope, n .75			
Remarks: Produced light mist throughout test. Vented 473 MCF/D.													
Approved By Commission:				Conducted By: Gip Aulbert				Calculated By: M.J. Turnbaugh				Checked By:	