

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/19/85		NOV 22 1985	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Dakota		Unit San Juan 30-5	
Completion Date 01/26/85		Total Depth 8293'		Plug Back TD 8275'		Elevation 6409' GR	
Farm or Lease Name San Juan 30-5 Unit				Well No. #102 (DK)			
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8293'	Perforations: From 8193' To 8243'		Unit Sec. Twp. Rge. K 34 30N 5W	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8153'	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual				Packer Set At 8146'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
State New Mexico							
L	H	G _g 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						2100				
1.	2"	X	.750"			57°	15	57°			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		27	1.003	1.302	1.002	339
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 2112 P _c ² 4460504					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0008$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0006$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		61	3721	4456823				
2		(Calc.)						
3								
4								
5								

Absolute Open Flow 339 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n .75		
Remarks: Produced a dry gas for 25 minutes, then a heavy mist the remainder of test.									
GI i-e-s FcQ ^c R ^c Pt ^c R ^c + Pt ^c Pw									
4823 296 10159 3007 729 3736 61 psia									
Approved By Commission:			Conducted By: Gip Aulbert			Calculated By: S.K. Liese		Checked By: M.J. Hurnbaugh	