

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/15/85			
Company Northwest Pipeline Corporation				Connection New Completion					
Pool Basin				Formation Dakota				Unit Rosa	
Completion Date 11/03/81		Total Depth 8100'		Plug Back TD 8020'		Elevation 6441' GR		Farm or Lease Name Rosa Unit	
Csg. Size 5.500	Wt. 17.0	d 4.950	Set At 8086'	Perforations: From 7981' To 8074'		Well No. #85 DK			
Thg. Size 1.990	Wt. 2.9	d 1.610	Set At 7974'	Perforations: From To		Unit Sec. Twp. Rge. A 20 31N 5W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual						Packer Set At 6100'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg Est. .600	% 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						2448				7 days
1.	2"	X	.750"			61°	108	61°			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		120	.999	1.291	1.012	1504
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 2460	P _c ² 6051600					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0332$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0248$
1		441	194481	5857119		
2		(Calc.)				
3						
4						
5						

Absolute Open Flow 1541		Mcf/d @ 15.025	Angle of Slope θ _____
Remarks: Produced dry gas and a light mist throughout test. Vented 188 Mcf.			
G1	i-e-s	FcQ ²	R ² Pt ² R ² + Pt ² Pw
4784	.294	612852	180178 14400 194578 441 psia
Approved By Commission:		Conducted By: Gip Aulbert	Calculated By: S.K. Liese
		Checked By: M.J. Turnbaugh	