

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 2/27/81	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Basin		Formation Dakota	
Completion Date 2/12/81		Total Depth 7895'	Plug Back TD 7865'
		Elevation 6255' GR	Form or Lease Name Rosa Unit
Csg. Size 5.500	Wt. 17.0	d 4.892	Set At 7895'
Perforations: From 7772' To 7831'		Well No. #79 DK	
Thg. Size 1.900	Wt. 2.9	d 1.610	Set At 7804'
Perforations: From To		Unit Sec. Twp. Rge. K 22 31N 6W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual Completion			Packer Set At 5870'
County Rio Arriba			State New Mexico
Producing Thru Tubing	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
L	H	Gg est. .580	% 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							2901				SIP
1.	2"	X	.750	133		54°	133				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		145	1.006	1.313	1.010	1858
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		533	284089	8201480
2		(calc.)		
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0346$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1960$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0259$

Absolute Open Flow	1960	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Vented 232 MCF.				
G1	1-e-s	FcQ ²	R ²	Pt ² - R ²
4526	.281	935300	262819	21025
Approved By Commission:		Conducted By: Chik Charley		Calculated By: B.J. Broughton
				Checked By: BJB

BJB/skw