

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 7/22/85	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Undesignated		Formation Gallup	
Completion Date 8/22/84		Total Depth 8166'	Plug Back TD 8140'
		Elevation 6415' GR	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8166'
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 8100'
Perforations: From 7190' To 7358'		Well No. #102 (Gal)	
Perforations: From To		Unit Sec. Twp. Rge. I 30 31N 5W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual		Packer Set At 7403 7367'	County Rio Arriba
Producing Thru Annulus	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
L	H	Gg Est. .600	% CO ₂ % N ₂ % H ₂ S
		Proven 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	SIP										
1.	2"	x	.750"					70°	2665		
2.									* 151	70°	3 Hrs.
3.											
4.									* Annular Flow		
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		163	.991	1.291	1.015	2033
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Liquid	Critical Pressure	Critical Temperature	Mcf/bbl.	Deg.
1.												
2.												
3.												
4.												
5.												

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 OIL CON. DIV.
 DIST. 3

P _c 2677	P _c ² 7166329			
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		213	45369	7120960
2		(Calc.)		
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0064$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2043$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0048$$

Absolute Open Flow	2043	Mcf/d @ 15.025	Angle of Slope °	Slope, n .75
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Remarks: Well blew dry gas for 35 mins., blew to light mist remainder of test. Vented 254 MCF

GI	i-e-s	FcQ ²	R ²	Pt ²	R ² +Pt ²	Calc. Pw
4314	.269	69308	18644	26569	45213	213 psia

Approved By Commission:	Conducted By: Gip Aulbert	Calculated By: S.K. Liese	Checked By: M.J. Turnbaugh
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