

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 7/15/85	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Undesignated				Formation Gallup	
Completion Date 2/01/85		Total Depth 8029'		Elevation 6179' GR	
Csg. Size 4.500		Wt. 11.6		Perforations: From 6736' To 7150'	
Thq. Size 2.375		Wt. 4.7		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual				Packer Set At 7206'	
Producing Thru Annulus		Reservoir Temp. °F #		Baro. Press. - P _g 12.0	
L		H		G _g Est. .590 % CO ₂ % N ₂ % H ₂ S Positive Choke	
Meter Run		Taps		County Rio Arriba	
State New Mexico					

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
1.	2"	X	.750"					65 ⁰	* 140	65 ⁰	3 Hrs.
2.											
3.									* Annular Flow		
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		152	.995	1.302	1.013	1916
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 <td>Deg.</td>	Deg.
2.					Specific Gravity Separator Gas <td>X X X X X X X X</td>	X X X X X X X X
3.					Specific Gravity Flowing Fluid <td>X X X X X X X X</td>	X X X X X X X X
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>R</td>	R

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 OIL CON. DIV.
 DIST. 3

$P_c = 2437$ $P_c^2 = 5938969$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0065$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0049$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		196	38416	5900553	
2.		(Calc.)			
3.					
4.					
5.					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1925$

Absolute Open Flow 1925 Mcfd @ 15.025		Angle of Slope θ Slope, n .75	
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Remarks: Well produced medium mist of water throughout test. Vented 240 MCF.					
G1	i-e-s	FcQ ²	R ²	Pt ²	R ² + Pt ²
3974	.251	61560	15452	23104	38556
					Calc. Pw 196 psia

Approved By Commission:	Conducted By: Chik Charley	Calculated By: S.K. Liese	Checked By: M.J. Turnbaugh
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