

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/05/83		OCT 13 1983	
Company Northwest Pipeline Corporation				Connection New Completion		OIL CON. DIV.	
Pool Basin				Formation Dakota		Unit DIST. 3 San Juan 31-6	
Completion Date 03-26-83		Total Depth 7900'		Plug Back TD 7874'		Elevation 6402'	
Csg. Size 4.500		Wt. 11.6		Set At 4.052		Well No. #48	
Perforations: From 7774' To 7822'		Set At 7900'		Perforations: From To		Unit P 2 30 6	
Perforations: From To		Set At 7753'		Perforations: From To		Unit P 2 30 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico	
Baro. Press. - P _a 12.0		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	
1.	2"	X	.750"	165		72°	165	72°	670	72°	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		177	.989	1.302	1.012	2,215
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	2627	682	465124	6436005
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0723$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,334$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0537$

Absolute Open Flow	2,334	Mcf/d @ 15.025	Angle of Slope @ _____	Slope, n _____ .75
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Remarks: Produced medium mist of H₂O at end of test. Vented 343 MCF.

Approved By Commission:	Conducted By: Chik Charley	Calculated By: M.J. Turnbaugh	Checked By:
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skw