

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-22-1981	
Company Union Texas Petroleum Corp.				Connection Gas Company of New Mexico	
Pool Blanco				Formation Mesaverde	
Completion Date 12-12-1981		Total Depth 7051		Plug Back TD 7000'	
Casing Size 7.875 5.500		Well ID 26.4 15.5		Perforations: From 3798 To 4781	
Tubing Size 2 3/8		Well ID 4.7		Perforations: From Open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas/Gas Dual				Packer Set At 4825	
Producing Thru Tubing		Reservoir Temp. °F #		Baro. Press. - P _a 12 psi. (est.)	
L		H		Prover	
C _g .650 (est.)		% CO ₂		% N ₂	
% H ₂ S		Prover		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.	
SI	10 days						910		919	
1.	2 inch	.750		285			285	60°	600	
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 _{py}	Rate of Flow Q, Mcfd
1	12.3650		297	1.000	.9608	1.040	3670
2.							
3.							
4.							
5.							

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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		612	374544	492217
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7609$

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

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.52864$

Absolute Open Flow	5610	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: Dry gas with show of condensate.

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Tom Belsha
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