

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-7-81	
Company Union Texas Petroleum Corp.		Connection Gas Co. of New Mexico	
Pool Blanco		Formation Mesaverde	
Completion Date 3-31-81		Total Depth 6860	
Plug Back TD 6860		Elevation	
Farm or Lease Name Culpepper Martin		Well No. 5	
Gas Size 5.560	Wt. 26.4	d 6.969	Set At 4110
Thq. Size 2.063	Wt. 3.25	d 1.751	Set At 3813
Perforations: From 4498 To 4774		Perforations: From -- To --	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Gas/Gas		Packer Set At 6766	
Producing Thru Tubing		Baro. Press. - P _a 12 est.	
County San Juan		State New Mexico	
L	H	G _g .650	% 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	7 days						990		991	
1.	2 inch	.750					296	56	795	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	12.3650		308	1.0019	.9806	1.031	3858
2.							
3.							
4.							
5.							

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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		807	651249	354760
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8357$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8431$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.18523$

Absolute Open Flow	8431	Mcf @ 15.025	Angle of Slope	Slope, n .75
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Remarks:

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Don Wells
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