

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/20/82	
Company DUGAN PROD CORP		Connection	
Pool Blanco		Formation PICTURED CLIFAS	
Completion Date Jul 12, 1982	Total Length 2419'	Plug Back TD 2390	Elevation 6210
Coq. Size 2 7/8	6.4	2.441	2419
Perforations From 2274 To 2335	Notes 26 5 notes		
Fig. Size 1 1/4	2.4	1.38	2318
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single - Gas		Procter Set At	
Producing Interval Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a
County San Juan	State New Mexico		
L	G _g 1.62	% CO ₂	% N ₂
% H ₂ S	Prover	Meter Run	Temp

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Pres. p.s.i.g.	Diff. h _v	Temp. °F	Pres. p.s.i.g.	Temp. °F	Pres. p.s.i.g.	
SI						310		310	
1.									
2.									
3.	2	7/8	55		60			210	3 1/2 hr
4.									
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, F _{sp}	Rate of Flow Q, Mcfd
1.							
2.							
3.	8.5417		67	1.000	0.9837	1.000	563
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 Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.										
2.										
3.										
4.										
5.										

NO.	P _i	P _w	P _e	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.9060$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.730$
1.						
2.						
3.	222	49324	54400			
4.						
5.						

Absolute Open Flow	974	Mcf @ 15.025	Angle of Slope	Slope, n	0.85
Remarks: appears to be dry.					
Approved by Division	Conducted By	Calculated By	Checked By		
	Eric Eckelbara	Eric Eckelbara			