

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-13-82			
Company Union Texas Petroleum Corp.				Connection Gas Co. of New Mexico					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 2-27-82		Total Depth 7100		Plug Back TD 7070		Elevation		Farm or Lease Name Culpepper Martin	
Csg. Size 7.625		Wt. 26.4		d. 6.969		Set At 4498		Perforations: From 4521 To 4862	
5.500		15.5		4.950		4192/7076		Well No. 4M	
Thq. Size 2 3/8		Wt. 4.7		d. 1.995		Set At 4162		Perforations: From 4157 To 4162	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G./Dual						Packer Set At 4959		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia		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.	Temp. °F	
SI	14 days						763		765		
1.	2 inch	.750	220				220	60°	589		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		232	1.000	.9608	1.023	2820
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
					Specific Gravity Separator Gas _____		
					Specific Gravity Flowing Fluid _____		
					Critical Pressure _____ P.S.I.A.		
		Critical Temperature _____ R		P.S.I.A.			
				R			

P _c 777 P _c ² 603729					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.4893$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.98178$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		601	361201	242528				
2								
3								
4								
5								

Absolute Open Flow 5589 Mcfd @ 15.025					Angle of Slope θ _____		Slope, n 75	
Remarks: Dry gas with show of oil.								

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