

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-29-82	
Company Union Texas Petroleum Corp.				Connection Gas Company of New Mexico			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 3-20-1982		Total Depth 7065		Plug Back TD 7017		Elevation 5875 G.L.	
Farm or Lease Name Culpepper Martin		Well No. 1E		Perforations: From 4557 To 4923		Unit Sec. Twp. Rge. P 31 32 12	
Csg. Size 5/8 Wt. 26.4		G. 9.969		Set At 4456		Perforations: From To	
5.500 17 & 15.5		4.950		4299/7062			
Tbg. Size Wt.		d		Set At			
2.375 4.7		1.995		4272			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas-Gas Dual				Packer Set At 4898		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia-est	
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	9 days						649		682		
1.	2 inch		.750	184			184	60°	466		3 hours
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		196	1.000	.9608	1.019	2373
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 _____ X X X X X X X X	Specific Gravity Flowing Fluid _____ X X X X X	Critical Pressure _____ P.S.I.A.	Critical Temperature _____ R
1.										
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.90256$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.61995$
1		478	228484	253152		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3844$

Absolute Open Flow <u>3844</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.75</u>
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Remarks: Dry gas with show of condensate.

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