

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-25-82	
Company Union Texas Petroleum Corp.				Connection Gas Co. of New Mexico	
Pool Basin				Formation Dakota	
Completion Date 1-29-82		Total Depth 7100'		Plug Back TD 7055	
				Elevation	
Farm or Lease Name Culpepper Martin				Well No. 1A	
Csg. Size 7.625		WI. 26.4#		Sel Al 4415'	
Perforations: From 6752 To 6992					
Perforations: From open To ended					
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas/Gas Dual		Packer Sel Al 4845		County * San Juan	
Producing Thru Tubing		Reservoir Temp. *F P		Mean Annual Temp. *F 12 psia	
L		H		Cg	
				.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	26 days						1704				
1.	2 inch	.750		465			465	60°			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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		477	1.000	.9608	1.050	5950
2.							
3.							
4.							
5.							

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

$P_c = 1715$ $P_c^2 = 2,944,656$				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.08408$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.06241$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1							
2							
3							
4		478	228390	2716266			
5		calculated					

Absolute Open Flow 6321		Mcf/d @ 15.025		Angle of Slope @ _____		Slope, n .75	
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Remarks: Show of oil and water throughout test. Well flared for 3 hours.

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