

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 41989

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/5/89		OIL CON. DIV. DIST. 3	
Company Union Texas Petroleum Corp.		Connection Union Texas Petroleum Corp.			
Pool Blanco		Formation Mesaverde		Unit	
Completion Date 11/16/89		Total Depth 6117		Plug Back TD 6074	
				Elevation 6506 GL	
Csg. Size 4.500		Wt. 23.0		Set At 3700	
Perforations: From 5006 To 5956				Well No. 7A	
Tbg. Size 2.375		Wt. 4.7		Set At 5916	
Perforations: From Open Ended To				Unit Sec. Twp. Rge. P 1 31N 9W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					
Single - Gas				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F	
				Baro. Press. - P _a 12	
County San Juan		State New Mexico			
L		H		Cg	
				0.690	
% 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	2"		3/4"				530		500		7 Days
1.							130	34°	400	34°	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, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		142	1.0260	0.9325	1.019	1712
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	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w ²	R _w ²	P _t ² - R _w ²
1		412	169,744	124,020
2				
3				
4				
5				

(1) $\frac{P_c^2}{R_c^2 - R_w^2} = 2.3687$

(2) $\left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n = 1.9093$

AOF = Q $\left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n = 3269$

P_c 542 P_c² 293,764

Absolute Open Flow	3269	Mcfd @ 15.025	Angle of Slope	0.75
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Remarks: Light mist of water

Approved By Division	Conducted By: Connie Clevenger	Calculated By: John C. Rector	Checked By:
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