

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7/8/83	
Company C. & E. Operators, Inc.				Connection Not connected		
Pool Aztec				Formation Pictured Cliffs		
Completion Date 7/1/83		Total Depth 5010		Plug Back TD 4948		
				Elevation 5797' Gr.		
Csg. Size 7"		Wt. 23#		Set At 4987'		
Perforations: From 2280'		To 2368'		Well No. 3		
Tubg. Size 1 1/4"		Wt. 2.4#		Set At 2305		
Perforations: From 2299		To 2302		Unit I Sec. 3 Twp. 30N Rge. 11W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual PC & MV				Packer Set At 2420' Mod. D		
Producing Thru Tubing				County San Juan		
Reservoir Temp. °F 0				State New Mexico		
Mean Annual Temp. °F				Baro. Press. - P _a		
L		H		Gg		
% 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	7 days			-			275		281		SI
1.			0.75" CN	50			50	67	251		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	12.365			0.9933	1.0	1.007	767
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.147$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.02$
1	3844	263	69169	16680		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 767 \times 4.02 = 3083$

Absolute Open Flow 3,083 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 0.85
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Remarks: Flared gas to obtain test. Pictured Cliffs side of Dual Well.

Approved By Division _____	Conducted By: Bruce Heller	Calculated By: John M. Heller, Cons.	Checked By: _____
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