

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-16-85		OCT 08 1985		
Company Blackwood & Nichols Company				Connection OIL CON. DIV.					
Pool Blanco Mesaverde				Formation Mesaverde					
Completion Date 9-10-85		Total Depth 5795'		Plug Back TD 5665'		Elevation 6141'		Farm or Lease Name Northeast Blanco Unit	
Csg. Size 7.000	Wt. 23.0	d 6.366	Set At *3390'	Perforations: From 4958' To 5452'		Well No. 3R			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At	Perforations: From To		Unit K	Soc. 5	Twp. 30N	Rye. 7W
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single					Packer Set At		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L.	H	Gg 0.646	% CO ₂	% N ₂	% H ₂ S	Prover 3/4"	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							320		610		
1.	3/4" choke						200	40	545		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		212	1.0198	.9645	1.022	2635
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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

P _c 622	P _c ² 386,884		
NO.	P ₁ ²	P _w ²	P _c ² - P _w ²
1		557	310,249
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.0484$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8875$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.3679$

Absolute Open Flow 8,875	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: *4 1/2" 10.5# liner from 3200' to 5795'

Approved By Commission:	Conducted By: R. Thompson	Calculated By: W. F. Clark	Checked By:
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