

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

REVISED 2-1-85

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-19-85		OCT 08 1985	
Company Blackwood & Nichols Co., Ltd.				Connection El Paso Natural Gas			
Pool Blanco Mesaverde				Formation Mesaverde		UnDIST. 3 Northeast Blanco	
Completion Date 8-30-85		Total Depth 5977'		Plug Back TD 5932'		Elevation 6373'	
Farm or Lease Name Northeast Blanco Unit				Well No. 15A			
Csg. Size 7.000"	Wt. 23.0	d 6.366	Set At 3659'	Perforations: * From 5198' To 5916'		Unit Soc. Twp. Rge. D 2 30N 7W	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 5899'	Perforations: From To		County Rio Arriba	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single				Packer Set At		State New Mexico	
Producing Thru		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L.	H.	G _g 0.63	% 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							400		445		
1.	3/4" choke						105	40	380		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		117	1.0198	.9759	1.011	1456
2.							
3.							
4.							
5.							

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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	457	208,849	392	153,664	55,185	3.7845	2.7134
2							
3							
4							
5							

Absolute Open Flow _____ Mcfd @ 15.025				Angle of Slope θ _____		Slope, n _____ 0.75	
Remarks: *4 1/2" liner from 3461' to 5977'							
Approved By Commission:		Conducted By: P. Mangum		Calculated By: W. F. Clark		Checked By:	